

# Projects Status Report

## परियोजना स्थिति प्रतिवेदन

Sep-2020/ सितम्बर-२०२०



**Projects Directorate SAIL, New Delhi**

परियोजना निदेशालय

सेल, नई दिल्ली

(For Internal Circulation only / केवल आंतरिक प्रसार हेतु)

विषयसूची-  
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**Summary of Projects at a Glance during 2020-21**  
**एक दृष्टि में परियोजनाओं का सारांश 2020-21**

**A. Details of Capital Projects**

(Value in Rs Cr)

Sl. No.	Plants/Units	Investment Proposals (Gross)		Projects Operationalized Including Exp. Pkgs.	Expenditure 2020-21			
		Approved Final	Approved In-principle		2020-21 BE	Outlay (Apr-Sep) BE	Actual (Apr-Sep)	Actual in Sep'20
1.	BSP (Value) (No.)		65.31 2		1055.07	487.97	386.83	107.42
2.	DSP (Value) (No.)				256.77	118.76	86.23	13.83
3.	RSP (Value) (No.)				1020.01	471.75	502.69	69.65
4.	BSL (Value) (No.)				1020.05	471.77	417.94	115.56
5.	ISP (Value) (No.)				284.00	131.35	48.43	23.34
6.	ASP (Value) (No.)				4.00	1.85	0.09	0.00
7.	SSP (Value) (No.)				4.00	1.85	1.77	0.22
8.	VISP (Value) (No.)				3.00	1.39	0.36	0.03
9.	RMD (Value) (No.)				290.00	134.13	27.37	9.06
10.	RDCIS (Value) (No.)				10.00	4.63	2.30	0.40
11.	CMO (Value) (No.)				24.00	11.10	0.04	0.04
12.	CET (Value) (No.)				0.50	0.23	0.00	0.00
13.	CO (Value) (No.)				14.60	6.75	0.28	0.15
0.3	CFP (Value) (No.)				4.00	1.85	0.33	0.00
15	CO (JV) (Value) (No.)				10.00	4.63	0.00	0.00
	<b>Total (Value) (No.)</b>	<b>0.00 0</b>	<b>65.31 2</b>	<b>0.00 0</b>	<b>4000.00</b>	<b>1850.01</b>	<b>1474.66</b>	<b>339.70</b>



# **Investment Proposals**

**निवेश प्रस्ताव**

**PROJECTS/ FACILITIES APPROVED 'Stage-II' During 2020-21 (>Rs. 20 Cr.)****A. AMR Schemes:**

In Rs. Cr.

SN.	Plant	Scheme	Approved Cost-Net of ITC	ITC Value	In-principle approval	Final approval	Approved Schedule (months)
1							
2							
		<b>Total of AMR Schemes (Net of ITC)</b>					
		<b>Total of AMR Schemes (Gross)</b>					

**A. Expansion Plan:**

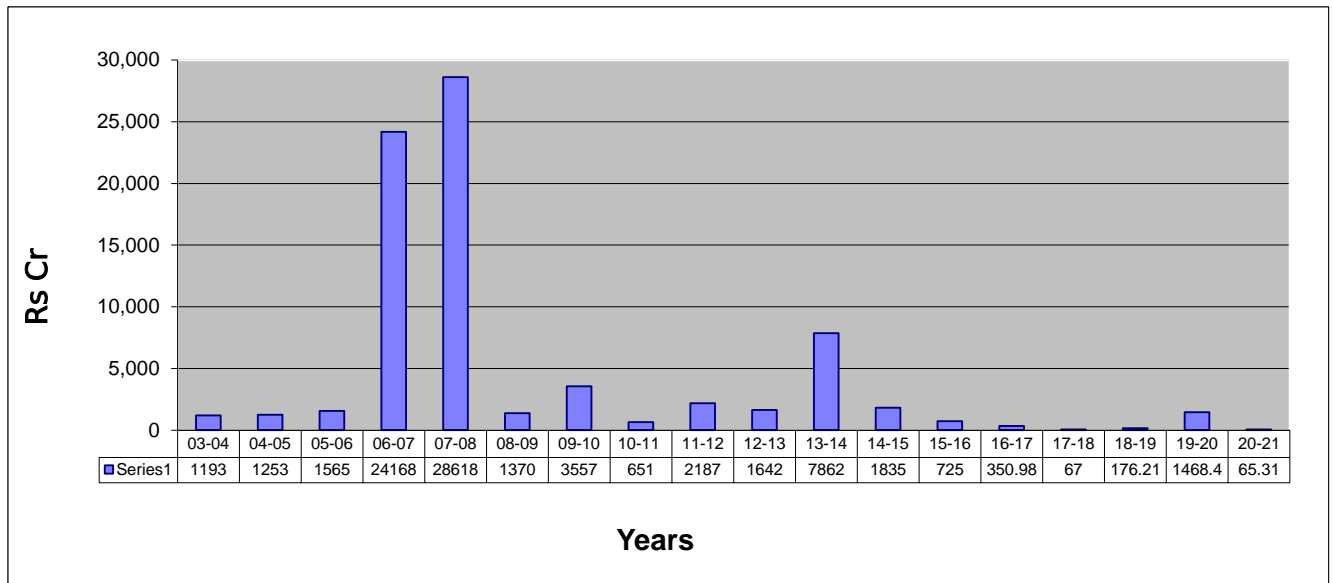
SN.	Plant	Scheme	Approved Cost-Net of ITC	ITC Value	In-principle approval	Final approval	Approved Schedule (months)
1							
2							
		<b>Total of Expansion Schemes (ITC)</b>					
		<b>Total of Expansion Schemes (Gross)</b>					

**Grand Total (AMR+Expn. Plan) Rs. 0.00 Cr. (Net of ITC)**

**Grand Total (AMR+Expn. Plan) Rs. 0.00 Cr. (Gross)**

**INVESTMENT PROPOSALS APPROVED "IN-PRINCIPLE" DURING 2020-21**

Sl. No.	Plant	Scheme	Cost Rs. Cr.	
			Indicative Cost (ITC value)	Approved "In-principle" in
1	BSP	Replacement of existing Flash Butt Rail Welding Machine in R&SM under AMR Schemes	28.91	Jul'20
2	BSP	Installation of Refinishing Complex in Universal Rail Mill (URM) under AMR Schemes	28.81	Jul'20
<b>Total (Net of ITC)</b>			<b>57.72</b>	
<b>Total (Gross)</b>			<b>65.31</b>	

**SUMMARY In-Principle Approvals (Rs. Cr.)**

Investment Proposals Approved "In-Principle" Till Date (Under Tendering)

**Bhilai Steel Plant**

As on 30.09.2020								
S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC/ITC) Name of Party (Quoted Price-NoC/ITC)	Negotiation, if any Receipt at CO	Remarks
<b>Bhilai Steel Plant</b>								
1	Rebuilding of COB-7 & 8  29.05.2015 Rs.588.15 Crore	<p>CoD meeting for prioritisation of proposal was held on 18.01.18. CoD had recommended the proposal for stage-II approval. Meanwhile, as desired by Projects Committee of SAIL Board (PCSB) in its meeting dt.29.05.17, proposal needs to be revalidated for Stage-II approval if it is delayed beyond 1 year of Stage-I approval. Accordingly, the instant proposal was put up for revalidation to PCSB. PCSB in its meeting held on 09.03.18 has revalidated the proposal of 'Rebuilding of COB-7 &amp; 8' for stage-II approval.</p> <p>Revised proposal with updated capital cost of Rs.486.85 Crore (net of input tax credit of Rs.71.13 Cr.) was received from BSP on 25.05.18. Agenda note for PAG meeting was circulated to PAG members on 29.05.18 for observations. Further, as desired by Operation Directorate, details of proposal was sent by e-mail on 02.07.18 for further scrutiny at their end.</p> <p>Proposal returned to BSP as per letter by GM (Projects)/CO dt.10.08.18 vide email dt.14.08.18.</p> <p>Proposal was again discussed in CoD meeting held on 13.11.18, in which CoD advised BSP to expedite the submission of revised proposal along with appropriate validity of Battery Proper (Package-1), Oven Machines (Package-2) and By-Product Plant Equipment (Package-3). Further, the provision of expense for the subject proposal also needs to be incorporated in RE of 2018-19, as it was not included in BE 2018-19.</p> <p><b>BSP vide mail dt. 03.12.18 informed that several attempts were made with the L-1 bidder (M/ BEC) to extend the validity but the party has submitted regret letter regarding the validity of their offer for Battery Proper (Package-1) &amp; Oven Machines (Package-2). Subsequently, M/s BEC extended the validity of Oven Machines (Package-2) till Nov'19.</b></p> <p><b>Proposal for Stage-II approval after re-tendering of Package-1 &amp; 3 and with firmed up cost of Rs.542.24 Crore (net of ITC) was received from BSP on 16.12.19.</b></p> <p><b>The proposal was again put up for revalidation by PCSB in its 22<sup>nd</sup> meeting dated 18.12.19. PCSB deliberated on the proposal and it was decided that further clarification is needed before the proposal can be revalidated for processing for Stage-II approval. It was decided that the revalidation of Stage-1 shall be discussed further in the ensuing meeting of PCSB.</b></p> <p><b>The instant proposal was put up to PCSB for revalidation on 18.09.2020. PCSB has revalidated the proposal; MoM of PCSB is awaited.</b></p> <p><b>Current status of packages are as under:</b></p>						
1a	Battery Proper (Pkg-1)	05.04.19	09.05.19/ 20.05.19  3 bidders	24-28.06.19	TER-02.07.19	Estimate- Rs.271.25 Crore 1. BEC Ltd., Bhilai <b>2. MECON Ltd., Ranchi (L-1, Rs.298.20 Crore)</b> 3. Consortium of M/s Beekay Engg. Corp., Bhilai with M/s PaulWurth India Pvt.Ltd., Gurgaon		<p>PLTC meeting held on 22.12.18 and recommended for cancellation of tender of Battery Proper; recommendation approved by management on 03.01.2019.</p> <p>CET has issued revised TS (R9) vide email dtd.06.02.19. Tender uploaded on SAIL's website on 05.04.2019 with due date of bid submission as 09.05.19. Pre-bid meeting held on 24.04.19. Corrigendum to pre-bid queries uploaded on SAIL Tenders website on 08.05.19 and due date of bid submission was extended upto 20.05.19.</p> <p>On extended due date, 3 parties namely M/s MECON, M/s BEC and Consortium of M/s PW &amp; Beekay have submitted their bid. Techno-commercial offers of 3 bidders opened on 20.05.19 and sent to CET.</p> <p>Technical comments sent to bidders by CET on 04.06.19. Technical discussions held with bidders at CET, Ranchi during 24-26.06.19. Commercial</p>

As on 30.09.2020

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC/ITC) Name of Party (Quoted Price-NoC/ITC)	Negotiation, if any Receipt at CO	Remarks
								<p>discussion with bidders held on 28.06.19 at Bhilai. CET has issued TER vide email dtd.02.07.19.</p> <p>CBEC meeting held on 12.07.19. PLTC meeting held and discussed about the status of BOQ and revalidation of Stage-I approval for the scheme. Addendum to TBEC received on 22.07.19 with regard to acceptance of BOM issued by CET. PLTC held on 08.08.19.</p> <p>Reverse Auction (RA) launched twice on 23.08.19 &amp; 26.08.19 but no bids has been received.</p> <p>PLTC meeting held on 27.08.19 for obtaining decremental price bids from the all three bidders. Letters issued to all the 3 bidders for submitting decrement price bid w.r.t original price bid latest by 06.09.19. Decremental price bid of all bidders received were received on 06.09.19 and sent to CET for scrutiny.</p> <p>CET submitted price evaluation report on 07.09.19, in which M/s MECON Ltd. emerged as L-1 bidder with price Rs.299.0 Crore which is 10.23% higher than the CET's estimate of Rs.271.25 Crore.</p> <p>Price negotiation meeting held with L-1 bidder on 18/19.09.19; however M/s MECON Ltd. vide letter dtd.25.09.19 regretted to offer any discount.</p> <p><b>Second round of Price Negotiation Meeting held with M/s MECON Ltd. on 15.10.2019.M/s MECON Ltd. vide email dtd.21.10.2019 offered reduced price of Rs.298.20 Crores.</b></p> <p><b>PLTC meeting held on 31.10.19 for award of work to M/s MECON Ltd. at a price of Rs.298.20 Crores; recommendation was approved by management.</b></p> <p><b>The validity of offer is extended till 31.10.2020.</b></p>
1b	Oven Machines (Pkg-2)	22.06.15	30.07.15/ 13.08.15/  5 Offers	19-23.09.15	TER- 23.10.15 / RA- 20.02.17	<p>Estimate- Rs.90.32 Crore</p> <ol style="list-style-type: none"> <li><b>BEC, Bhilai (L-1, Rs.87.97 Crore NOC)</b></li> <li>Taiyuan Heavy Industry Co. Ltd. - Associated Industrial Furnaces (P) Ltd (L-2, Rs.88.15 Crore NOC)</li> <li>Beekay Engg. Corpn., Bhilai-GosaFom, Serbia (Not eligible)</li> <li>Graduate Agro &amp; Mechanical Engineers, Bhilai (Not eligible)</li> <li>Paulwurth Italia SpA - Paulwurth India - L&amp;T Ltd (Not eligible)</li> </ol>		<p>Revised proposal with updated capital cost of Rs.85.84 Crore (net of input tax credit benefit of Rs.15.45 Cr.) received from BSP on 25.05.18.</p> <p>TC meeting held on 04.01.19 and recommended for cancellation of tender of Oven Machines, however, as advised by CEO Office, matter was taken up with L-1 bidder for validity extension. M/s BEC Ltd., Bhilai vide letter dtd.04.02.2019 have extended the validity of their offer up to 30.11.2019.</p> <p><b>M/s BEC Ltd. vide letter dtd.20.11.19 has extended the validity of their offer up to 31.03.2020.</b></p> <p><b>Further, M/s BEC has again extended the validity till 30.11.2020.</b></p>
1c	Replacement of By-Product Plant Equipment (Pkg-3)	14.06.19	15.07.19/ 29.07.19/ 08.08.19			<p>Estimate- Rs.52.08 Crore</p> <ol style="list-style-type: none"> <li>Consortium of M/s Graduate Agro &amp; Mechanical Engineers, Bhilai (leader) with M/s Sri Lakshmi Prabha Engg. Industries Pvt. Ltd., Visakhapatnam and M/s LLC" Mykolaiv Enterprise Energomash", Ukraine</li> </ol>		<p>TC meeting held on 11.03.19 for quashing of tender. Tender has been quashed as per management approval dt.19.03.19 due to non-extension of validity by L-1 bidder.</p> <p>NIT for fresh tender was finalised. Note was processed on 10.05.19 for uploading of tender; note approval on 14.06.19.</p> <p>NIT uploaded on 14.06.19, with last date for tender submission on 15.07.2019.</p> <p>The pre-bid meeting held on 29.06.19. Corrigendum in respect of pre-bid</p>

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC/ITC) Name of Party (Quoted Price-NoC/ITC)	Negotiation, if any Receipt at CO	Remarks
						2. Consortium of M/s Oriental EPC Pvt. Ltd., Ahmedabad (leader) with M/s Boldrocchi S.r.l, Italy and M/s Boldrocchi India Pvt. Ltd, Tamilnadu 3. Consortium of Sterling & Wilson Pvt. Ltd., Mumbai (leader) with M/s Hutni Projekt Frydek-Misteka.s, Czech Republic 4. Consortium of M/s MECON Ltd., Ranchi (leader) along with M/s SBW Electro Mechanics Import & Export Corporation, China 5. M/s BTL EPC Ltd., Kolkata		queries issued on 17.07.19. Due date of bid submission extended up to 29.07.19 & further extended upto 08.08.19. On extended due date, Techno-commercial bids of five bidders opened & sent to CET, Zone & Shop for scrutiny. Technical discussion held with bidders at CET Ranchi during 26.08.19 to 29.08.19. Commercial comments sent to all the bidders on 23.08.19. TER received from CET vide email dtd.04.10.19. TC meeting held on 26.10.19 & 31.10.19 for conducting RA. <b>RA held on 25.11.19. Consortium of Oriental EPC Pvt. Ltd. (OEPC) emerged as L-1 bidder with L-1 price Rs.40.89 Crore (Net of ITC) against the estimate of Rs.40.97 Crore (Net of ITC). Price evaluation report received from CET on 28.11.19.</b> <b>TC meeting held on 29.11.2019 for award of work to L-1 bidder.</b> <b>TC recommendations approved on 03.12.19.</b> <b>The validity of offer is extended till 31.10.2020</b>
1d	Supply of Design & Engineering Drawings, Providing Expert Supervision, Performance Guarantee and Inspection of Refractories at Supplier's premises (Pkg-4)	22.07.15	01.08.15/ 1 Offer	07.08-08.08.15	TAR-07.10.15 PBO-22.12.15	Estimate- Rs.40.62 Crore  <b>L1-CUI, Ukraine (Rs.52.76Crore)</b> <b>Revised Price after negotiation Rs.38.39 Crore</b>	17.03.16 13.04.16 2/3.06.16 Discount of Rs.14.58 Crore	<b>Work is in progress.</b> <b>Revised proposal with updated capital cost of Rs.38.01 Crore (net of input tax credit of Rs.6.84 Crore) received from BSP on 25.05.18.</b>
1e	Enabling Works for Battery # 7 (Pkg5)	22.06.15	22.07.15/ 01.08.15/ 7 Offers	20-25.08.15	TAR-RA-18.01.16	Estimate- Rs.14.47 Crore 1. <b>M/s N.P. Construction, Bokaro, (L1, Rs.9.24 Crore)</b> 2. M/s HSCL, Bhilai (L2, Rs.9.26 Crore) 3. M/s A.K. Dutta, (L3, Rs.9.49 Crore) 4. M/s Beekay (L4, Rs.9.75 Crore) 5. M/s West India Construction Company, Bhilai (M/s WICC), Bhilai (L5) 6. <i>M/s Rosy Enterprises Private Limited, Rourkela (not eligible)</i> 7. <i>Consortium of M/s Sanmathi Enterprises, Bhilai (as leader) &amp; M/s S.B. Construction (P) Ltd., Rourkela (not eligible)</i>		<b>Work is in progress.</b> <b>Revised proposal with updated capital cost of Rs.9.49 Crore (net of input tax credit of Rs.0.66 Crore) received from BSP on 25.05.18.</b>
2	Modification in the Washing Circuit of	11.01.20	10.02.20 16.03.20			1. BSBK Pvt. Ltd., Bhilai 2. MECON Ltd., Ranchi		SAIL Board in its 467 <sup>th</sup> meeting held on 19.12.2019 has accorded Stage-I approval for the proposal of 'Modification in the Washing Circuit of Crushing,

As on 30.09.2020

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC/ITC) Name of Party (Quoted Price-NoC/ITC)	Negotiation, if any Receipt at CO	Remarks
	CSW Plant of Dalli Mines 19.12.2019 Rs.153.87 Crore		15.04.20 30.04.20 15.05.20 10.06.20 17.06.20  4 Offers			3. R.R. Industrial Corporation (I) Ltd., Raipur 4. Hazemag EPR, Germany/ M/s Allminerals Asia Pvt. Ltd., Kolkata		Screening and Washing (CSW) Plant of Dalli Mines' at an estimated cost of Rs.153.87 Crore (net of Input Tax Credit of Rs.17.45 Crore). Global Tender Enquiry issued on 11.01.20 with due date of bid submission as 10.02.2020.  Pre bid meeting held on 23.01.2020. Pre bid clarifications uploaded as corrigendum on 18.02.2020. TOD extended up to 16.03.2020, 15.04.2020, 30.04.2020, 15.05.2020, 10.06.2020 & 17.06.2020. <b>Techno-commercial offer opened on 17.06.2020 and sent to all concerned for scrutiny.</b>
3	Purchase of railway rolling stock (freight rakes) by SAIL under GPWIS (General Purpose Wagon Investment Scheme) notified by Indian Railways  09.08.2019 Rs.281 Crore	06.02.20	12.03.20  Lot-I; 5 offers Lot-II; 7 offers Lot-III; 6 offers		RA-18.06.20	1. Lot-I; Estimate-Rs.89.56 Cr M/s Titagarh Wagons Ltd -India (L-1, Rs.68.92 Crore) 2. Lot-II; Estimate-Rs.129.08 Cr M/s Texmaco Rail & Engg Limited - Kolkata (L-1, Rs.109.04 Crore) 3. Lot-III, Estimate-Rs.47.39 Cr M/s Titagarh Wagons Ltd -India (L-1, Rs.38.39 Crore)		Proposal for Stage-II approval with firmed up cost of Rs.228.52 Crore (net of ITC) was received from BSP on 04.08.20. Proposal has been circulated to the appraising agencies i.e., Project Finance and Operations on 05.08.2020. CoD meeting held on 11.08.20. After deliberations, CoD on 11.08.20 cleared and prioritized the proposal for further processing. <b>PAG held on 14.08.20. PAG observation sent to BSP on 14.08.20; reply received on 18.08.20. CoD MoM signed on 21.08.20. PAG MoM signed on 24.08.20.</b> <b>The instant proposal was put up for revalidation to PCSB. PCSB in its meeting held on 18.09.2020 has revalidated the proposal; MoM awaited.</b> <b>Proposal initiated for approval of Empowered Committee (EC) agenda.</b>
4	Replacement of existing Flash Butt Rail Welding Machine in R&SM  17.07.2020 Rs.28.91 Crore	20.08.20	18.09.20 30.09.20					Sanction letter issued to BSP after approval on 20.07.20. Indigenous Open Tender uploaded on SAIL Tenders website on 20.08.2020 with due date of bid submission as 18.09.2020. Pre-Bid discussions held on 29.08.2020 in which M/s Mechelonic Engineers Pvt Ltd, Mumbai attended meeting via video conference. Due date of bid submission extended up to 30.09.2020. <b>Two bids have been received.</b>
5	Installation of Refinishing Complex in Universal Rail Mill (URM)  21.07.2020 Rs.28.81 Crore	25.07.20	18.08.20 01.09.20			1. Primetals Technologies India Private Limited,Kolkata 2. Maco Corporation ( India) Pvt Ltd., Kolkata 3. Graduate Agro &Mechanical Engineers, Bhilai 4. SMS India Pvt. Ltd.,Gurugram		Sanction letter issued to BSP after approval on 23.07.20. Indigenous Open Tender uploaded on SAIL Tenders website on 25.07.2020 with due date of bid submission as 18.08.2020. Pre-Bid discussions held on 05.08.2020. Due date of bid submission extended up to 01.09.2020 on request of bidders. <b>4 Offers were received and opened on 01.09.2020; bids under scrutiny.</b>
6	Solid state Interlocking Signaling System <b>Part of MEP</b>	02.01.19	06.02.19/ 20.02.19/ 15.03.19/ 12.04.19/ 24.04.19  3 offers	10-12.06.19		1. Picasona Entreprises, Kolkata 2. Param Entreprises, Kolkata 3. Texmaco Rail & Engg, Delhi		Tender uploaded on 02.01.19 with due date of bid submission on 06.02.19. Pre-bid meeting held on 17.01.2019. Due date of offer submission extended up to 20.02.19, 15.03.19, 12.04.19 & further extended upto 24.04.19. Offers of 3 parties opened on 13.08.19 & sent to MECON for TBEC submitted their report on 20.09.19. CBEC submitted their report on 18.10.19. MECON issued revised TAR dt.21.09.19. <b>TC held on 26.10.19 to quash the instant tender, TC</b>

As on 30.09.2020								
S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC/ITC) Name of Party (Quoted Price-NoC/ITC)	Negotiation, if any Receipt at CO	Remarks
								<b>recommendation approved on 26.11.19.</b> <b>Vide email dt.28.11.19 the same is informed to Utility Zone and Shop (T&amp;D).</b> <b>Meeting held on 29.01.2020 for discussions regarding TS &amp; EC.</b>
7	Conversion of 3-strand Beam Blank Caster (CV2) to 3-strand Bloom cum Beam Blank Caster (Pkg-026 C) in SMS-III <b>Part of MEP</b>	04.07.20	11.07.20 07.08.20  Single tender (Propriety)			M/s Primetals Technologies Austria GmbH, Austria, Linz and M/s Primetals Technologies India Pvt. Ltd., Kolkata		Single tender (proprietary) enquiry to consortium comprising of M/s Primetals Technologies Austria GmbH, Austria, Linz and M/s Primetals Technologies India Pvt. Ltd., Kolkata for Conversion of 3-strand Beam Blank Caster (CV2) to 3-strand Bloom cum Beam Blank Caster (Pkg-026 C) in SMS-III of Bhilai Steel Plant has been issued on 04.07.2020 at an estimated cost of Rs.63.1 Crores (net of ITC) with due date of bid submission as 11.07.2020. TOD extended upto 07.08.2020. <b>Techno-commercial offer opened on 07.08.2020, bids under scrutiny with Zone.</b>

### Durgapur Steel Plant

As on 30.09.20								
S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
<b>Durgapur Steel Plant</b>								
1.	<b>Installation of 4th stove in BF-4</b> 5.11.19, (Rs. 32.91 Cr net of ITC)	30.11.19	27.12.19 10.01.20		02.03.20 29.05.20	Rs. 27.21 Cr  L-1: M/s Mecon Ltd- Rs. 38.88 Cr.  L-2: M/s Primetals - Rs. 44.89 Cr.  L-3: M/s Paul Wurth- Rs. 46.83 Cr.		<ul style="list-style-type: none"> <li>• Tender committee meeting held at DSP on 09.11.19</li> <li>• NIT issued on 30.11.19; NIT issued on 30.11.19; Pre bid clarification meeting held on 16.12.19, TOD: 10.01.20</li> <li>• 3 offers received: M/s Primetals Technologies India, M/s Paul Wurth India &amp; MECON</li> <li>• Tender discussion held from 04.02.2020-07.02.2020 at CET, Ranchi</li> <li>• TER (R-1) submitted by CET on 02.03.20</li> <li>• Price discovery done on 29.05.2020, report submitted to DSP on 04.06.2020.</li> <li>• <b>M/s Mecon has emerged as L-1 with quoted price of Rs 38.88 Cr, which is 42.92% higher than the estimate.</b></li> <li>• <b>First round of negotiations with Mecon held on 25.06.20, after which Mecon offered a discount of Rs. 15 Lakhs. Second round of high level negotiations held on 30.06.20, Mecon yet to revert back with new offer, if</b></li> </ul>



As on 30.09.20								
S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original /extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
								<p>any.</p> <ul style="list-style-type: none"> <li>After a number of rounds of negotiation, MECON have submitted discounted price of Rs. 37.39 Cr. (Total discount of Rs. 1.5 Cr.) on 19.08.20 which is 37.4% higher than CET's estimate of Rs 27.21 Crore. DSP requested MECON on 25.08.20 for further reduction in offer price. MECON vide letter dated 31.08.20 stated that they have given their best price.</li> <li>Matter is being pursued with MECON for further reduction in price. Meeting held with D(P&amp;BP) on 05.09.20, in which possibility of executing the scheme through an established erection contractor on Non-Turnkey basis as well as the possibility of bifurcating the scheme into 3-4 packages and tendering it out was also discussed.</li> </ul>

### Rourkela Steel Plant

As on 03.09.2020								
S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
<b>Rourkela Steel Plant</b>								
1.	Installation of 4 <sup>th</sup> Caster along with Ladle Furnace at SMS-II  May'19 Rs.745.82 crore (net of ITC)	25.06.19 05.08.19 (Corrigendum issued)	06.08.19 16.09.19	14-19.10.19 (3 bidders)  7-8.11.19 (2 bidders)		1. Consortium of M/s Mukund Ltd. & CERI China. 2. Consortium of M/s Tata Projects Ltd., Danieli Corus & Danieli India 3. Consortium of M/s MECON Ltd., POSCO & NCC Ltd. 4. Consortium of M/s SMS GMBH, SMS India & SMS Tech Beijing 5. Consortium of M/s Primetal Tech GMBH, Primetals India and L&T Ltd.		SAIL Board in its 461st meeting held on 30.05.19 has accorded Stage-I approval. NIT issued on 25.06.19 with TOD on 06.08.19, Pre bid meeting held on 10-11.07.19. SMS/ Danieli/ TPL/ Primetal/ L&T/ POSCO/ MECON participated.  Corrigendum to TS issued-05.08.2019 with TOD extended to 27.8.19. TOD extended to 16.09.19.  Tender opened on 16.09.19.  Offers forwarded to CET on 16.09.2019 for evaluation. Technical discussion held at CET Ranchi from 14th to 19th October, 2019 with 3 bidders (TPL, SMS & Primetal).  Technical discussion with remaining 2 bidders (MECON, Mukund) held from 5th to 8th Nov'19 at RSP.  Commercial evaluation held with the bidders as follows:  Primetals :23rd & 24th Oct'19,
	<b>Retendered</b>	07.03.20 20	16.04.2020 30.4.2020					

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ex tended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
			29.05.2020 26.06.2020			1. Consortium of M/s Mukund Ltd. & Capital Engg. & Research Incorp. Ltd. (CERI) China. 2. Consortium of M/s Danieli & C Spa, Danieli India (P) Ltd., & Gannon Dunkerley Co. Ltd. 3. Consortium of M/s MECON Ltd., POSCO E & C, S Korea. 4. Consortium of M/s SMS Group GMBH, SMS India () Ltd. & SMS (T) Beijing		<p>TPL+DL : 31st Oct &amp; 1st Nov'19, SMS Siemag : 4th &amp; 5th Nov'19, MECON/POSCO/NCC : 6th &amp; 7th Nov'19, Mukund/CERI : 8th &amp; 9th Nov'19. 2nd round of discussion held from 4th – 10th Dec'19. TER received from CET on 02.01.2020.</p> <p>As per TER all 5 bidders are technically unsuitable - since none of the bidders has accepted time of completion of 27 months. They have asked for implementation schedule ranging from 33 months to 42 months.</p> <p>TEC recommended on 18.01.2020 to re-tender the case as none of the bidders are technically suitable.</p> <p>TC recommended for re-tendering the case on 20.01.2020. Recommendations of TC approved by CA on 21.01.2020.</p> <p>CET has submitted TS on 25.2.2020. Addendum/ corrigendum to TS including Enabling Works received from CET on 27.2.2020. NIT uploaded on 07.03.2020.</p> <p>Pre-bid discussion - 24.03.2020. TOD - 16.04.2020.</p> <p>Pre bid meeting could not be held on 24.03.2020, due to present lockdown in the country and request received from bidders for extending the pre bid meeting by 4 weeks/ seeking clarification through mail. Bidders also requested for extension of TOD (up to 16.07.2020 (by M/s Primetals and L &amp; T)</p> <p>Considering the above, bidders have been conveyed to seek clarifications on mail up to 31.03.2020. Reply to the clarifications to be completed by 04.04.2020.</p> <p>It has been decided not to hold a pre-bid meeting.</p> <p>Also, TOD was extended up to 30.04.2020 &amp; 29.05.2020. As no offers received &amp; considering lockdown on account of COVID -19, TOD has been further extended to 26.06.2020.</p> <p>Tender was opened on 26.6.2020 and 4 bids were received.</p> <p>During Techno-commercial evaluation, all the four bidders submitted deviations w.r.t. revised payment terms including the modified dispute resolution clause. Major deviations are Technical (Ramping-up production, PG test, shut down period) and Commercial (Payment terms for ramp-up, dispute resolution, limitation of liability)</p> <p>Meanwhile, Dept. of Public Expenditure, Ministry of Finance, Govt. of India issued restrictions under Public procurement policy vide notification reference as "Restriction under Rule 144 (xi) of the</p>

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ex tended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
								<p>General Financial Rules (GFRs), 2017, dated 23.07.2020"</p> <p>In view of the above, two out of four bidders will be disqualified as they are having consortium members of Chinese origin.</p> <p>The matter was referred to Corporate Law and they have opined that the best course of action is that the entire process may be scrapped and initiated de novo. The model clauses/certificates are to be inserted in the fresh tender in compliance of the said orders.</p> <p>Vide note dated 25.8.2020, RSP has submitted a proposal for apprising SAIL Board regarding the major issues relating to present tender and to retender the proposal with existing provisions of SBD-2014.</p> <p><b>The proposal for Retendering the proposal with existing provisions of SBD -2014 has been considered by PCSB in its meeting held on 18.09.2020. Minutes of PCSB are awaited, Agenda to be considered by SAIL Board in ensuing meeting.</b></p>
2.	Rebuilding of COB-2 along with augmentation of Coke handling and gas handling facility May'19 Rs.356.31 cr.						<p>Details of negotiations are provided in Remarks</p> <p>12.2.2020</p>	<p>SAIL Board in its 461<sup>st</sup> meeting held on 30.05.19 has accorded Stage-I approval.</p> <p>Draft Board note for Stage-II approval has been received on 12.2.2020.</p> <p>Proposal was considered by COD meeting in its meeting held on 06.03.2020. Subsequently, Corporate PAG meeting held on 09.03.2020 and Agenda Note for Empowered Committee Meeting processed on 17.03.2020 and circulated to EC members on 21.03.2020. RSP was requested on 02.05.2020 to renegotiate with L1 bidders and resubmit the proposal.</p> <p>For Battery proper package, MECON has given discount of ~ Rs. 1 Crore. Accordingly, proposal has been reworked and processed for approval of Empowered Committee.</p> <p>Subsequently, EC meeting was held on 11.8.2020. As desired by Chairman, SAIL, the proposal is to be processed for re-validation of Stage-I approval by the BSC prior to accord of Stage-II approval by the Empowered Committee, since more than 1 year has elapsed after Stage-I approval of the scheme by the SAIL Board.</p> <p>Reply received from RSP on 11/15.09.2020.</p> <p><b>The proposal for re-validation has been considered by PCSB in its meeting held on 18.09.2020. PCSB minutes are awaited, In the meantime, proposal processed on 22.09.2020.</b></p>
a	Battery Proper (Package-2)	29.06.19 29.07.19 (Corrigendum issued)	30.07.19 16.08.19 02.09.19 (2 offers	26-27.9.19		1. M/s MECON 2. M/s BEC		<p>Pre bid meeting held on 15.07.19 (MECON/ BEC/ L&amp;T/ Hutni/ Paulwirth participated).TOD extended till 16.08.19.</p> <p>Corrigendum to TS issued-29.07.2019, TOD extended to 16.08.2019. Again TOD extended to 02.09.2019.</p>

As on 03.09.2020

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ex tended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
			received)					<p>Tender opened on 02.09.19, two bids received. Technical discussion with bidders held at Ranchi on 26<sup>th</sup> &amp; 27<sup>th</sup> Sep'19.</p> <p>Commercial discussion with MECON held on 18.10.2019. For BEC, commercial discussion held through correspondence.</p> <p>Conditional TER from CET received on 28.10.2019 Techno commercial discussions completed with bidders and Tender Evaluation Report (TER) received from CET.</p> <p>Soil Report received on 11.11.2019.</p> <p>NDT report approved by CET &amp; the report has been shared with the agencies on 30.11.2019.</p> <p>TC recommended for obtaining revised price bid.</p> <p>Revised price bids of both the bidders were opened on 26.12.2019.</p> <p>M/s MECON Ltd. is L-1 bidder (Rs. 254.90 cr.), L-1 price is 8.66% higher than estimate of Rs. 234.59 cr.</p> <p>Price negotiation held on 07.01.2020 and no discount offered.</p> <p>2nd round of negotiation scheduled to be held on 14.01.2020. The party has offered a lumpsum discount of Rs. 20 Lakhs alongwith justification of their quoted price. The same has been forwarded to CET for comments and providing reasonability of estimate. CET has provided the same on 18.01.2020.</p> <p>The party was called for 3rd round of negotiation on 24.01.2020. In reply party offered final discount of 0.5% on their original quoted price.</p> <p>Price after 3rd of negotiation is 8.16% higher than the estimate</p> <p>Final discounted price offers by bidder is Rs.253.63 cr, 8.11% higher than the estimate.</p> <p>TC meeting held on 01.02.2020. TC recommendation for order placement approved on 05.02.2020.</p> <p><b>Price validity has been extended by L1 bidder till Dec'2020.</b></p> <p>Negotiations were held The party has offered a discount of ~Rs.1 crore</p>
b	Oven Machines (Package-3)	29.06.19 29.07.19 (Corrigendum issued)	30.07.19 16.08.19 02.09.19 (2 offers received)	27.09.2019 18.10.2019	20.11.19	1. M/s BEC 2. M/s Graduate Agro & Mechanical Engineers Ltd.		<p>Pre- bid discussion held on 15.07.2019, 2 bidders participated (BEC &amp; Paulwurth). Corrigendum to TS issued-29.07.2019. TOD extended to 16.08.2019.</p> <p>Again TOD extended to 02.09.2019.TOD opened on 02.09.19, two bids received.</p> <p>Technical discussion with BEC held on 27.9.2019 and with GAME on 18.10.2019.</p> <p>TER received on 20.11.19.</p>

As on 03.09.2020

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ex tended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
								<p>TEC completed on 21.11.19.</p> <p>CEC completed on 22.11.19</p> <p>TC held on 25.11.19. M/s GAME was given time to submit documents by 02.12.2019. No documents submitted by M/s GAME. TC meeting held on 03.12.19. TC recommends for opening price bid of M/s BEC Ltd. along with decrement price bid.</p> <p>Original price bids along with decrement price of single party, M/s BEC Ltd. opened on 19.12.2019. L-1 price of Rs. 55.42 Cr. is 12.8% higher than estimate of Rs. 49.13 Cr.</p> <p>Price Negotiation held with bidder on 24.12.2019.</p> <p>Party has given 1 % discount on their quoted price.</p> <p>Price bid evaluation received from CET. The discounted price of Rs. 54.87 cr. is 11.67% higher than estimate.</p> <p>2nd round of negotiation held on 07.01.2020.</p> <p>3rd round of negotiation held on 10.01.2020.</p> <p>Final discounted price is Rs. 54.18Crore which is 10.28% higher than estimate.</p> <p>TC meeting held on 14.01.2020. TC recommendations for placement of order were put up to CA on 17.01.2020.</p> <p>CA has recommended for re- negotiation.</p> <p>After negotiation, final discounted price is Rs.54 cr, which is 9.91% higher than the estimate.</p> <p>TC recommendations for placement of order on M/s BEC approved on 03.02.2020.</p> <p><b>Price validity has been extended by L1 bidder till Oct,2020.</b></p> <p>Negotiations were held, no discount given by bidder.</p>
c	Silica Bricks and Silica Mortar (Package-4)	28.06.19	19.07.19, 02.08.19 14.08.19	18-19.09.19	24.10.19 28.11.19 (PBO)	1. M/s TRL Krosaki Refractories Ltd 2. M/s Dalmia Cement (Bharat) Ltd		<p>TOD extended up to 02.08.2019 based on the request of M/s TRL Krosaki &amp; M/s Dalmia OCL.</p> <p>One offer from M/s Dalmia OCL received. TOD further extended to 14.08.2019.</p> <p>Two offers received from i) M/s TRL Krosaki Refractories Ltd.ii) M/s Dalmia Cement (Bharat) Ltd.</p> <p>Two offers opened on 19.08.2019, after taking approval from CA.</p> <p>Offers sent to CET on 19.08.2019 for evaluation.</p> <p>Technical discussion with bidders held at Ranchi on 18 &amp; 19.09.2019.</p> <p>TER was received from CET on 01.10.2019 &amp; both parties were found technically not suitable.</p> <p>TEC reviewed the TER on 10.10.2019 &amp; asked CET to revise TER.</p>

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ex tended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
								<p>Revised TER from CET received on 24.10.2019. CEC completed on 25.10.2019. TC completed on 05.11.2019. Approval received and Price bid along with decrement price opened on 28.11.19. M/s Dalmia Cement (Bharat) Ltd. emerged as L1 The bid price is 14.56% higher than estimate. Price negotiation was held with L-1 bidder on 06.12.2019 Party has given discounted price which is still 7.64% higher than estimate. After 2nd round of negotiation (17.12.2019) Party has given discounted price of Rs. 27.83 Cr., which is still 6.97% higher than estimate. Reply of the party alongwith justification is forwarded to CET to examine and give final recommendation. Basis of estimate received from CET. 3rd round of negotiation held on 07.01.2020. Party has given final discounted price of Rs. 26.81 Crore which is 3.02% higher than the estimate. TC meeting held on 14.01.2020. TC recommendations for placement of order were put up to CA on 17.01.2020. CA has recommended for re- negotiation. In 4th round of negotiations on 1.2.2020, the party did not offer any discount. Final discounted price is Rs.26.81 cr, which is Rs.3.02 % higher than the estimate. TC recommendations for placement of order on M/s Dalmia Cement (Bharat) Ltd. approved on 03.02.2020. <b>Price validity by L1 bidder has been extended till Dec'2020.</b> Negotiations were held on 23.6.2020. Party has communicated that no further discount can be offered.</p>
d	Soil investigation, Area survey and UG mapping (Package-1A)	22.06.19	05.07.19		15.07.19 (TER) 16.07.19 (PBO)	For Soil test (Pkg-1A) 1. M/s Creative Studio 2. M/s S S Solution (L-1) 3. M/s Arkitechno Consultant (I) Pvt. Ltd.	-	<p>Tender opened for Soil Survey &amp; NDT on 05.07.19 and three bids received in both the tenders. For Soil test (pkg-1A) TER from CET received on 15.07.2019. Price bids opened on 16.07.2019. Price is firmed up on M/s S S Solution, Durgapur at Rs. 8,86,119.00 which is 2% less than estimate. Order placed on M/s S S Solution, Durgapur on 29.07.2019. Job Started on 07.08.2019. Job has been completed &amp; report was submitted by agency on 09.10.2019.</p>

As on 03.09.2020

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ex tended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
								CET has given observations on report on 11.10.2019. Agency has submitted compliance on 15.10.2019. CET approved the report on 11.11.2019.
e	Non-destructive testing of existing civil & structures (Package-1B)	22.06.19	05.07.19		18.07.19 (TER) 23.07.19 (PBO)	For NDT (Pkg-1B) 1. M/s Superintendence Company India Pvt. Limited (L-1) 2. M/s Cortex Construction Solutions (P) Ltd. 3. M/s Arkitechno Consultants (I) Pvt. Ltd.	-	TER from CET received on 18.07.2019. Mandate given to M/s M. Junction Service for RA on 18.07.2019. RA held on 23.07.2019. Price evaluation from CET received on 26.07.2019. M/s Superintendence is L-1 at Rs. 6.96 Lakhs net of ITC. L-1 price is 65.20% less than estimate. Order Placed on M/s Superintendence Company of India Pvt. Ltd. Kolkata, on 09.08.2019. Job Started on 02.09.2019. Job has been completed and Interim report submitted on 10.10.2019. CET has given observations on report on 12.10.2019. Agency submitted compliance on 21.10.2019 Final report also submitted on 21.10.2019 CET gave observation on the Final report on 24.10.2019 Agency submitted compliance on 02.11.2019 CET gave observation on the Final report on 14.11.2019 Agency submitted compliance on 18.11.2019 CET again gave observations & which was complied on 21.11.2019. Discussions held with party & CET in Ranchi on 25.11.19 w.r.t. compliance. . Final approved report received on 30.11.2019.
3.	Upgradation of ETP of CO & CCD area Feb'2020 Rs.44.37 crore  (Net of ITC of Rs.6.96 cr.)	22.2.2020	19.3.2020 27.3.2020 20.4.2020 12.05.2020 26.05.2020			1. Advent Envirocare Technology Pvt. Ltd. 2. Effwa Infra & Research Pvt. Ltd. 3. Ion Exchange India Ltd. 4. Gaja Engg. Pvt. Ltd.		Sanction letter issued on 06.02.2020. NIT issued on 22.02.2020 with TOD 19.03.2020. Pre-bid meeting held on 05.03.2020 and 8 bidders participated. ToD extended to 27.03.2020 and further to 20.04.2020 due to present circumstances. TOD further extended to 12.05.2020, 26.05.2020, as no offers received and due to COVID19. Corrigendum issued for indigenous tender with ToD 26.6.2020. Tender opened on 26.6.2020 and 4 bids received. TER from Consultant M/s CET received on 05.08.2020. TEC meeting held on 01.09.2020. <b>TC meeting held on 25.09.2020 &amp; 03.10.2020.</b>
4.	Installation of Static VAR Compensator at Rolling Mill-2 Sub-station and MSDS-III  27.03.19  Rs.53.82 Crore	30.04.19 25.05.19 (Corrigendum issued)	31.05.19 14.06.19 28.06.19  (2 offers received)	12-13.8.19/ 28.8.19		1.Siemens Ltd 2.GE Power Control		SAIL Board in its 459 <sup>th</sup> meeting held on 27.03.19 has accorded Stage-I approval. NIT was issued with TOD on 31.05.19.Pre bid meeting held on 15.05.19 (GE/ABB/Siemens participated), <b>corrigendum issued on 25.05.19</b> and TOD extended upto 14.06.19. As only one offer was received, TOD was extended till 28.06.19.  Only two offers from M/s Siemens and GE power received till 28.06.19. Tender opened on 03.07.19, after taking approval from Competent Authority.  Techno-commercial discussion with Siemens held at Rourkela on 12 <sup>th</sup>

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/ex tended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
	(net of ITC of Rs.7.75 Crore) <b>Retendered</b>	05.11.19	26.11.19 (2 offers) 05.12.19 16.12.19 24.12.19			1. Consortium of M/s Siemens Ltd & M/s Siemens AG 2. Consortium of M/s GE Power Conversion India Pvt. Ltd & M/s GE T&D India Ltd. 3. Consortium of M/s Endoks Energy System Ltd. & M/s Quality Power Electrical Equipment Pvt. Ltd. 5.		and 13 <sup>th</sup> August'19. GE: Commercially Not Qualified, Siemens: Major deviation in PG Parameter. Technical Discussions held with M/s GE on 27-28.08.19. TER received on 20.09.2019. Both the parties are not suitable TC recommended on 24.09.2019 for re-tendering with revised TS and eligibility criteria. Approval for re-tendering received on 05.10.2019. Revised TS and Eligibility Criteria received from CET. Package re-tendered, NIT issued on 05.11.2019 with TOD on 26.11.2019. Two offers received on 26.11.19 from: i) Consortium of M/s GE Power Conversion Ltd/ & M/s GE T&D Ltd ii) Consortium of M/s Siemens Ltd & M/s Siemens AG TOD extended to 05.12.2019. TOD again extended to 16.12.2019 & 24.12.2019. 3 offers opened on 24.12.2019. Offers received from: 1. Consortium of M/s Siemens Ltd & M/s Siemens AG 2. Consortium of M/s GE Power Conversion India Pvt. Ltd. & M/s GE T&D India Ltd. 3. Consortium of M/s Endoks Energy System Ltd. & M/s Quality Power Electrical Equipment Pvt. Ltd. Techno commercial discussion with Consortium of M/s GE was completed on 10th & 11th Jan'20, with M/s Siemens held on 14th & 15th Jan'20 and with M/s Endoks on 23rd Jan'20. Conditional TER received from CET. TEC and CEC meeting done and all three parties found suitable. Subsequently, TC meeting held on 24.03.2020 and TC asked TEC to re-examine Consortium of M/s Endoks Energy System Ltd. & M/s Quality Power Electrical Equipment Pvt. Ltd. Accordingly, documents asked from the bidder and received. The offer of bidder is technically not eligible as the consortium partner is not having commensurate work experience specifically for civil jobs as required in the tender. Considering the critical financial condition of the company due to COVID-19 outbreak, as a measure for curtailment of expenditure across SAIL, all the tendered cases are being examined for possibility of dropping/ deferment. It was discussed in the Task Force Committee meeting for COVID-19 held on 18.05.2020 and it was decided to drop



As on 03.09.2020								
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								<p>the proposal.</p> <p>Also, the Department of Expenditure, Ministry of Finance in their amendment of the General Financial Rules (GFRs)-2017 have indicated that no GTE shall be invited for tenders up to Rs.200 crore.</p> <p>In view of above, Tender Committee (TC) in its meeting held on 23.05.2020 recommended for dropping the subject proposal.</p> <p>The decision for dropping the proposal, with due approval of CEO, RSP, has been forwarded to Corporate Projects for information to SAIL Board. Technical justification is sought from RSP, Reply is awaited.</p>

### Bokaro Steel Plant

As on 30.09.2020								
S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
<b>Bokaro Steel Plant</b>								
1	Installation of ESPs for Area De-dusting of Machine Building (Sinter Band # 1, #2 & #3) along with MDP of Sinter Plant Jul'17 61.68 Cr (NOC Rs. 5.31 Cr)  <b>Retendered</b>	28.09.17  11.09.18	27.10.17  09.10.18 14.11.18 08.12.18 3 offers	12.03.18  20.04.19	03.01.18 (TER)  22.03.19 (TER)	1 Andrew Yule, 2 Thermax 3 Unicorn+ HN const. 4 BTL+ Elex India  1.Thermax Ltd 2.Unicon Engrs with HNCPL 3. Andrew Yule		<p>Sanction letter issued on 01.08.17. NIT Issued, 4 offers received and Tenders opened. Commercial discussion completed. TER received on 03.01.2018. Single Techno-commercially Acceptable (STA) bidders was found i.e. Andrew Yule. TC held on 12.03.18 for retendering the case. Approval for retendering obtained and eligibility criteria is being reviewed.</p> <p>Retendered. On due date no offers received. TOD extended till 14.11.2018.2 offers received on 14.11.18. TOD extended till 08.12.18.Tender opened on 08.12.18. TC held on 20.04.19 for opening the price bid of STA bidder.</p> <p>The proposal was processed for approval of opening of price bid and further processing of STA offer of M/s Andrew Yule. However, retendering of the case is being considered with revised Eligibility Criteria.</p>
2	Installation of 2000 TPD Oxygen Plant on <b>BOO basis</b> (May'19)	04.10.19	04.10.19 15.11.19 20.12.19 20.02.20 02.04.20 30.05.20	-	-	-	-	<p>Sanction Letter issued on 04.06.19.</p> <p>GTE NIT issued on 08.08.19 with TOD on 04.10.19. Pre-bid held on 04.09.19. During pre-bid meeting, all bidders have requested for 30 months completion time instead of 23 months.</p>

As on 30.09.2020

S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation , if any Receipt at CO	Remarks
			30.06.20 30.07.20 17.08.20 31.08.20 15.09.20 31.09.20 15.10.20					As no offers received, TOD was extended 10 times.  Bidder (INOX AP) has requested for extension of TOD in view of novel COVID – 19.  Proposal for extending implementation period from 23 months to 30 months by SAIL Board and re-validation of Stage-I approval by PCSB on exceeding the 1 year of its firming from Stage-I has been processed for approval of competent authority on 24.07.20. Queries received from Chairman, SAIL and reply received from Plant on 07.08.20. File processed for approval on 10.08.20. Agenda Notes were approved by Ch. SAIL for consideration and approval of BSC/Board. <b>PCSB meeting was held on 18.09.20 wherein these agenda notes were considered.</b>
3	Up gradation of Automation System of HSM at BSL.  May'19  Rs.171.91 Cr (net of ITC of Rs. 28 Cr.)	29.08.19	03.10.19  20.02.20  29.02.20  07.03.20  03.07.20  2 offers	-	-	1 Primetals  2 SMS	-	NIT issued on 29.08.19 with TOD 03.10.2019. No offer recd. TOD further extended for 4 times till 07.03.2020. Two bids received– Primetals ; SMS  File processed for obtaining approval for opening less than X+2 offers.  As directed by ED (F&A), proposal is with PPM department for finalisation of mode of tendering (LTE to OTE) and EC which will be deliberated in IPC & PAG before approval of CA.  Meanwhile, efforts have been made to get 3rd offer from TMEIC. However, offer from party is still awaited.  <b>Tender opened on 03.07.2020. Conditional TER received as parties were not accepting completion schedule and shutdown period as specified in the TS. TER is under scrutiny by the Technical Committee at BSL.</b>
4	Up gradation of Looper 1 & 2 of Pickling Line-1 of CRM  Jun'19  Rs. 25.5 Cr. (net of ITC of Rs. 4.04 Cr.)	09.07.19	06.08.19  05.09.19  06.11.19  21.12.19  28.02.20	-	-	1 Sunag Engg.  2 SMS Group	-	Sanction Letter issued on 03.06.19.  NIT issued on 09.07.19 with tender opening date as 06.08.19. No offers received. TOD extended to 05.09.19, 06.11.19 & 21.12.19. Single offer received till 21.12.19. TOD again extended to 28.02.2020. 2 offers (Ms Sunag & M/s SMS Group) received on 28.02.20.  File processed for approval for opening of <(x+2) available Techno-commercial bids. It was advised to explore more vendors in order to have competitive bidding. MJ has been requested for market making of the project.

As on 30.09.2020								
S.N	Pkg, Date ( St-I Appvl), Cost	NIT Date	TOD (Original/extended) Nos. of Offers	TC discussion Start End	Date of Submsn. of TAR/ TER, Dt. of PBO	Estimate (NoC) Name of Party (Quoted Price-NoC)	Negotiation, if any Receipt at CO	Remarks
			29.06.20 2 offers					Approval was obtained for opening of <(x+2) available offers. <b>Tender opened on 29.06.2020. TER received; both bids are not acceptable, as they were in deviation with tender specifications along with S/d timelines.</b>
5.	Power Supply arrangement for proposed 2000 TPD Oxygen Plant Feb'20 Rs 46.24 Cr. (net of ITC of Rs 6.23 Cr.)	17.03.20	23.04.20 30.05.20 30.06.20 <b>15.07.20</b>	--	--	1. Siemens Ltd. 2. ABB Power Products & Systems India 3. JSP Projects Pvt. Ltd.	--	Sanction letter issued on 06.02.2020 NIT issued on 17.03.2020; TOD extended 3 times as no offer received on scheduled TOD. <b>Tender opened on 15.07.2020. TER received; Soil Investigation Report is awaited subsequent to which price bids will be opened.</b>

**Total cost of In-Principle approved Pkgs.-under tendering**

Plant	BSP	DSP	RSP	BSL	ISP	ASP/ SSP	RMD	Total
Cost (NoC in Rs. Cr.)	1081.1	32.91	1200.32	305.33	0.00	00	00	2619.66

**NIT:** Notice Inviting Tender/ **TOD:** Tender Opening Date/ **TC:** Tender Committee / **TAR:** Tender Appraisal Report/ **TER:** Tender Evaluation Report/ **PBO:** Price Bid Opening/ **LOA:** Letter of Acceptance.

## INVESTMENT PROPOSALS UNDER CONSIDERATION AT CORPORATE OFFICE (Stage-I)

Sl. No.	Plant / Scheme	Cost (Rs. Cr.)	Receipt at CO	Status
1	DSP			
a)	Installation of New Bar Mill	834.24 (net of ITC)	16.6.19 (soft copy)	<p>Proposal has been received via email on 16.6.19.</p> <p>Proposal circulated to Project Finance, Operations, EMD and Commercial Directorate for Observations/ comments on 17/18.6.19.</p> <p>Observations of Projects Directorate and EMD forwarded to DSP.</p> <p>COD meeting held on 19.6.19.</p> <p>DSP has forwarded the revised FR (R2) on 25.6.19.</p> <p>Revised proposal received from DSP on 31.07.19; The same has been circulated to obtain comments from Operations Dte., Finance Dte. and EMD. The proposal was also referred to independent financial appraisal agency (IFCI), on 03.08.19, for appraisal of the project. Meanwhile, observations from Finance Dte..have been forwarded to plant and the replies to same are awaited. The draft report of IFCI was received on 05.11.19. The proposal processed for obtaining approval of CA on 22.11.19 after obtaining clarifications from DSP/CET of further Finance queries and receipt of Final Project Appraisal Report from IFCI on 21.11.19.</p> <p>The file was processed for the approval of the competent authority, however during the due diligence several observations were raised clarifications regarding which were sought from DSP/CET. Final replies to the observations were received on 21.02.2020. The proposal was again put up for consideration of COD in its meeting held on 06.03.2020, as directed. The COD along with Director (Commercial), SAIL deliberated over the project and asked CET to rework the input material balance considering excess 150 mm<sup>2</sup> billet from ISP, CET was also advised to prepare a comparison of costs considering the proposal on EPC , JV, BOO bases. CET submitted the revised FR-R3 to DSP, which has raised certain observations on the same and is scrutinizing the revised FR.</p> <p><b>Reply to observation of COD meeting held on 6.03.20 rec. on 20.08.20.</b></p> <p><b>The proposal again processed on 20.08.20, to be put up for COD consideration in its ensuing meeting.</b></p>
b)	Installation of CO gas holder	48.45 Cr (net of ITC)  53.53 Cr (earlier)	10.07.19 (soft copy)  21.02.20 (rev prop)	<p>Proposal considered by COD in its meeting held on 24.07.19 and during deliberations it was brought out that CO gas holder is a technical necessity since the existing gas holder has outlived its life. COD cleared the proposal and advised DSP to submit fresh updated proposal incorporating proper justification, for further processing of the proposal.</p> <p>DSP submitted the revised proposal on 21.02.20 (S/c). The proposal was considered by the COD in its meeting held on 06.03.2020; the proposal processed for PAG on 18.03.2020. PAG held on 04.04.2020 over zoom platform and PAG queries sent to DSP, Replies to the queries received on 10.04.2020. Proposal processed for obtaining the approval of Competent Authority, after replying to Director (P&amp;BP) observation about possibility of indigenous tendering, which is not possible as the Technology suppliers are of foreign origin.</p> <p>The file was processed for approval of CA however, once again Director(P&amp;BP) directed DSP/CET, in-line to clarion call of Gol for Atmnirbhar Bharat, to explore possibility for indigenous tendering.</p> <p>Action initiated by CET for clearance of global tender against GTE guidelines. Meeting held on 20.08.20 between DSP and CET to finalise list of upcoming schemes under consideration, in which presence of foreign bidders is expected due to non-availability of technology in India.</p> <p>Action initiated by CET for clearance for global tender w.r.t recent GTE guidelines from Govt. Required forms has been processed for submission to Ministry</p>
c)	Installation of NDT facilities at WAP	44.08 Cr. (net of ITC)	21.12.19	<p>Proposal considered by COD in its meeting held on 30.12.19 and during deliberations it was brought out that NDT machine is a technical requirement for DSP to be in LHB market. However, during clearing and prioritizing the proposal, COD opined that though tender for both the machines may be issued but order for the second machine shall be placed only after ascertaining the performance of first machine.</p> <p>PAG considered the proposal, in its meeting held on 10.01.20 and observations of PAG sent to DSP/CET on 13.01.20, however, during signing of PAG MoM it was desired by the PAG to re-assess the requirement of machines considering their capacity and the requirement of DSP. In pursuance of this additional queries were sent to DSP on 7.03.20. DSP vide its mail dated 11.03.20 confirmed that only one machine will be sufficient for the existing requirement. Accordingly, a revised proposal shall be processed for approval of competent authority. Revised proposal received from DSP on 28.05.2020. Proposal moved for consideration of COD, in its next meeting, on 28.05.20. However, keeping the urgency in view COD agenda was moved for consideration of COD through circulation. Queries of Director (Finance) on proportional reduction in price owing to reducing UTS machine from 2 nos. to 1 was replied by CET/DSP. COD direction on prioritization waited.</p>

Sl. No.	Plant / Scheme	Cost (Rs. Cr.)	Receipt at CO	Status
				<p>Meanwhile, Action initiated by CET for clearance of global tender against GTE guidelines. Meeting held on 21.08.20 between DSP and CET to finalise list of upcoming schemes under consideration, in which presence of foreign bidders is expected due to non-availability of technology in India</p> <p>Action initiated by CET for clearance for global tender w.r.t recent GTE guidelines from Govt. Required forms has been processed for submission to Ministry</p>
d)	Installation of New Stamp Charge Battery	1851.92 Cr (net of ITC)	22.02.2020	<p>The proposal was listed for the consideration of COD, in its meeting of 06.03.20. Proposal considered by COD in its meeting held on 19.06.20 and observed that CoD suggested that besides COBs, the health/plan of upstream and downstream facilities viz. Blast Furnaces, BF stoves, SMS etc. also needs to be studied and dovetailed into an overall strategy. Accordingly, the proposal of installation of stamp charge battery may be reworked by DSP with the help of CET and a comprehensive proposal be brought which should justify the requirement of new COB keeping in view the overall balancing with respect to production strategy of DSP.</p> <p>Further, keeping in view the capital investment involved, CoD advised DSP to explore the option of installation of Battery proper and CDCP on BOO basis and Coal Handling and By Product facility on EPC basis. Preliminary meeting held between DSP and CET, CET to submit an Approach Paper on the comprehensive proposal.</p>
<b>2</b>	<b>RSP</b>			
a.	Installation of a stamp charge COB-7 along with CDCP and By-product plant	2335.02 (net of ITC)  Revised cost  2272.00 (net of ITC of 282.62)	Mar'18          Aug'19	<p>Proposal circulated to Operation, Finance, EMD, RDCIS for comments. Operations and Projects Directorate observations sent to RSP on 27.03.18, reply received from RSP on 23.04.18, forwarded to Operations on 24.04.18. Further observations sent to RSP on 27.04.18. Part reply received from RSP on 05.05.18. Observations of EMD received on 19.04.18 and forwarded to RSP, reply received on 05.05.18. Updated Agenda with cost estimate of Rs.2272.00 Cr (net of ITC of Rs.282.62 Cr) received on 31.05.18.</p> <p>Comments/ observations of RDCIS and Finance are awaited. In line with the Capex review meeting held on 10.08.18, the Proposal was returned to plant on 21.08.18. The proposal was received from RSP (after review) on 10.09.18 for reconsideration. RSP found the proposal to be essential to meet the coke requirement at RSP.</p> <p><b>Proposal was considered by CoD in its meeting held on 13.11.18, after deliberations, CoD decided to put this proposal on hold.</b> A separate meeting will be organized for discussion of setting up of new coke oven battery of all ISPs.</p> <p><b>Proposal was again considered by CoD in its meeting held on 22.01.19.</b> Extract of COD meeting sent to RSP on 05.02.19. Reply of COD observations received on 13.02.19.</p> <p><b>Proposal was reconsidered by COD in its meeting held on 27.02.19,</b> COD's meeting extract sent to RSP on 13.03.19.</p> <p>Revised proposal received on 14.08.19 and circulated to Operations, Finance and EMD on 16.08.19.</p> <p>Observations of Projects Directorate sent to RSP on 22.08.19, reply received on 09.09.19.</p> <p><b>Proposal considered by COD in its meeting held on 14.10.2019.</b> While deliberating on the proposal, COD made following observations:</p> <ul style="list-style-type: none"> <li>Installation of COB-7 is planned to start from 2024-25 i.e. more than 4 years from now. Taking 'In-Principle' approval at this stage does not seem to be justified since RSP will require to issue the tender about 1 year prior to 2024-25. Further, by taking 'in-principle' approval at this stage will require the proposal to be revalidated if it is not firmed up within 1 yr from Stage-1 approval.</li> <li>Coke shortage needs to be reworked taking into account the timing of shutdown/ major repairs of BF-5 and COB-6.</li> <li>As per RSP, parts of Coal Handling Plant of conventional tall batteries will be utilised for new COB-7 Stamp Charged Battery with some modifications. This may result in operational difficulties.</li> </ul> <p><b>COD advised that the proposal needs to be relooked and revised after incorporating all the clarifications on above mentioned issues after due diligence with CET.</b></p> <p>Revised Agenda is awaited.</p>
		2317.64 (net of ITC of 287.05)	Aug'19 -  Revised cost	

Sl. No.	Plant / Scheme	Cost (Rs. Cr.)	Receipt at CO	Status
b.	Installation of New Oxygen Plant (900 tpd) at RSP on BOO basis	BOO	Feb'19	<p>Proposal has been considered by <b>COD in its meeting held on 27.02.19, Extract of COD's meeting sent to RSP on 13.03.19.</b> COD after deliberations advised RSP to submit revised proposal for higher capacity Oxygen Plant on BOO basis, so that ASU-I &amp; ASU-II can be closed once new unit is installed. Accordingly, EOI for 1200 tpd BOO basis plant was issued on 06.04.2019 with last date for EOI is 23.04.2019, which was subsequently extended to 30.04.2019 on request from probable bidders. Bids opened on 30.04.2019. Four bidders participated. Presentation by the bidders was held on 21.05.2019 &amp; 22.05.2019.</p> <p>Revised Agenda on LOM basis was submitted by RSP and same has been considered by <b>COD in its meeting held on 20.01.2020.</b> While deliberating on the proposal, COD made following observations:</p> <ul style="list-style-type: none"> <li>- Legal opinion may be sought by RSP to clarify whether any Government Clearances/ NOC are required for opting for LOM route.</li> <li>- If LOM route is possible, then RSP may look into whether the existing BOO Plant contract can be changed to LOM model, as this would be more beneficial for SAIL.</li> <li>- Option of a joint venture may also be explored.</li> <li>- The eligibility criteria for the new plant may be drawn up so that more vendors can participate.</li> <li>- If the reason for proposing LOM is to save on power cost since the BOO plant of RSP draws power from the grid and it is felt that in the LOM basis the power can be supplied at Captive rate, then RSP may first explore the option of taking distribution license as has been taken by BSP and BSL.</li> </ul> <p>After detailed discussions, COD advised that the proposal may be relooked, revised and submitted again after incorporating clarifications on the above mentioned observations, same has been communicated to RSP on 31.01.2020,</p> <p>Reply awaited.</p>
	<b>Revised Agenda</b>			
	Installation of New Oxygen Plant (1000 tpd) on Lease and O&M basis	LOM	Jan'2020	
c.	Lagoon Management Work	38.29  (net of Input tax credit of Rs.6.89 crore)	Dec'19	<p>Proposal forwarded to Operations, Finance and EMD for comments/observations on 16.12.19 after receipt of TS. EMD observations received and forwarded to RSP.</p> <p><b>Proposal was considered by COD in its meeting held on 30.12.19.</b></p> <p>COD noted that as dredging and de-silting is a non-core and regular operational activity, it cannot be considered a capital project. Accordingly, COD advised RSP to take up the work of Lagoon Management under revenue expenditure.</p> <p>Further, considering the criticality of implementation of ZLD in RSP, COD advised RSP that all the schemes envisaged for implementation of ZLD may be put up to it in a comprehensive manner.</p> <p>CODs observations were communicated to RSP on 04.01.2020. Reply from RSP received on 10.2.2020. <b>The proposal was considered by COD in its meeting held on 06.03.2020.</b> COD discussed and suggested that RSP may explore the use of Geotubes as used in Bhilai Mines (Hitkasa) by M/s WAPCOS and the outcome may be submitted before PAG meeting.</p> <p>COD after deliberations noted that proposal is essential for meeting environmental norms and so prioritized and cleared the proposal for further processing.</p> <p>A team of two experts from M/s WAPCOs visited RSP on 17.03.2020 and submitted their report along with cost estimate</p> <p>PAG meeting was held on 08.04.2020, Proposal was processed for approval of Chairman on 27.04.2020. Observations of D(P&amp;BP) forwarded to RSP on 5.5.2020, Reply received on 23.07.2020. Instead of MECON now CET is consultant, revised TS received.</p> <p>It is observed that there are changes in implementation schedule, methodology, mode of implementation etc. Keeping this in view, further details were sought from RSP on 24.07.2020. Reply received on 03.08.2020.</p> <p>With CET as Consultant, there are changes in the proposal w.r.t. implementation schedule, methodology, mode of implementation etc. In view of above, proposal was put up to <b>CoD in its meeting held on 11.08.2020</b> and CoD decided to process the proposal further as it has already been cleared by CoD in its meeting held in Mar'2020.</p> <p>PAG meeting was held on 14.08.2020. Executive Summary for approval from Chairman was processed on 26.08.2020. Observations of Chairman received on 08.09.2020. Reply from RSP received on 15/16.09.2020. File again processed for approval on 25.09.2020.</p> <p><b>As desired, consolidated ZLD proposal is to be submitted, mail in this regard has been sent to RSP on 03.10.2020.</b></p>
	<b>Revised Cost -</b>		Aug'2020	
	Rs.34.92 (net of ITC Nil)			

Sl. No.	Plant / Scheme	Cost (Rs. Cr.)	Receipt at CO	Status
d.	Installation of Normalizing facilities in New Plate Mill, RSP	Rs.295.56 Crore (Net of ITC of Rs.44.90 Crore).  <u>Revised Cost</u> Rs.309.29 cr (net of ITC),	Mar'2020          Aug'2020	<p>Only approval Note received on 16.03.2020. Agenda Note, FR and cost calculations were sought from RSP on 17.03.2020. After receiving the desired details, proposal forwarded to Project Finance, Operations, EMD and CMO for their comments on 19.03.2020. Observations of Projects were sent on 26.03.2020.</p> <p><b>Proposal was considered by CoD in its meeting held on 22.05.2020.</b> CoD agreed that the facility is required for imparting a competitive edge to NPM by enabling it to produce normalized plates especially in thicker sizes, to meet the market demand. However, in view of the present liquidity position of the company, it was decided with the consent of CEO, RSP that the proposal may be deferred for the time being and brought back to the CoD after financial position improves. Accordingly the proposal file was returned to RSP.</p> <p>RSP through mail dated 25.07.2020 requested to reconsider the proposal for Stage-I sanction. Accordingly, the <b>proposal was considered in CoD in its meeting held on 11.08.2020</b> and CoD prioritized and cleared the proposal for further processing.</p> <p>PAG agenda was circulated on 13.8.2020.</p> <p>Proposal has been forwarded to IFCL for appraisal on 13.8.2020. Queries of IFCL has been received on 20.8.2020 and reply of RSP forwarded to IFCL. Draft Report received on 25.09.2020 and is under scrutiny.</p> <p>PAG meeting held on 16.09.2020. Reply of PAG observations received on 29.09.2020, few clarifications on the reply has been sought from RSP on 01.10.2020.</p>
e.	Installation & Commissioning of New Test House for R & C lab	32.26 (net of ITC of Rs. 4.64 Cr)  <u>Revised Cost</u> Rs.32.54 cr. (net of ITC)	Jan'2020          Jul'2020  (cost updated in sep'2020)	<p>Approval note through mail received on 25.01.2020. Complete Agenda along with Annexure and TS received from RSP on 5.2.2020. Preliminary observations of Projects Directorate sent to RSP on 28.01.2020 and reply received on 14.2.2020. Observations of Project Finance received and forwarded to RSP on 21.2.2020. Reply from RSP received at Projects Dte forwarded to Project Finance.</p> <p><b>The proposal was considered by COD in its meeting held on 06.03.2020</b> and COD after deliberations prioritized and clear the proposal for further processing.</p> <p>Subsequently, PAG meeting held on 09.03.2020 and proposal processed for Chairman approval on 17.03.2020.</p> <p>Observations of Chairman Sectt. received on 25.03.2020 and forwarded to RSP on 25.03.2020. Reply received and proposal processed on 16.04.2020 for Chairman approval.</p> <p><b>Project was deferred by D(F) vide note dated 24.04.2020.</b></p> <p>RSP through mail dated 25.07.2020 requested to reconsider the proposal for Stage-I sanction. <b>The matter was discussed in COD meeting held on 11.8.2020</b> and it was agreed that the proposal may be processed for approval.</p> <p>The cost has been updated by CET and techno-economics worked out (received 31.7.2020)</p> <p>Executive Summary for approval from Chairman processed on 13.8.2020. Observations of CGM (Finance) forwarded to RSP on 28.08.2020, reply received. Observations from Chairman received on 11.09.2020, reply received on 18/21.09.2020 Proposal again processed for approval along with reply on 28.09.2020.</p> <p><b>As desired, scope of work of the package that requires Global tendering is to be taken up separately. RSP vide mail dated 05.10.2020 has been requested to regroup the scope of work and resubmit the proposal.</b></p>
f.	Implementation of Treatment System-1(TS-1) under ZLD	Rs 124.98 Cr. (net of ITC)  <u>Revised Cost</u> Rs.114.36 Crore (net of ITC )	Apr'2020          Jun'2020	<p>Observations of Projects Directorate were sent to RSP on 16.04.2020 and reply received on 22.04.2020.</p> <p>Proposal along with reply received was forwarded to Operations, Project Finance and EMD for comments on 24.04.2020. Observations of EMD have been received on 27.5.2020. RSP's reply to EMD's observations has been received on 27.6.2020 and has been forwarded to EMD.</p> <p><b>Proposal was considered by CoD in its meeting held on 22.05.2020</b>, COD prioritised and cleared the proposal, PAG meeting was held on 30.5.2020. Reply to PAG queries received from RSP on 16.6.2020.</p> <p>Further clarification sought from RSP and reply received on 08.07.2020. file was processed on 16.07.2020. Observations of Dir (P&amp;BP) received on 19.07.2020, Reply received on 25.07.2020, PCSB/Board Agenda processed on 27.07.2020. Reply on observation of Chairman office query received on 31.07.2020/ 4.8.2020.</p> <p>File processed on 04.08.2020, observations of Chairman (dated 18.08.2020) received on</p>

Sl. No.	Plant / Scheme	Cost (Rs. Cr.)	Receipt at CO	Status
				20.08.2020, reply received from CET on 29.08.2020, RSP is requested to give further details to CET for vetting the proposal, as desired by Chairman.  Final reply and clarification from CET received on 14/15/24.09.2020. Proposal processed for approval on 25.09.2020.  <b>As desired, consolidated ZLD proposal is to be submitted, mail in this regard has been sent to RSP on 03.10.2020.</b>
g.	Revised Cost Estimate of New HSM	3629.595  3558.02  3557.96  3701.234	Nov'19  Feb'2020  Mar'2020  Aug'2020	Projects observations sent to RSP on 21.11.19 and 29.11.19 & 06.01.2020 reply received from RSP on 23.12.19 & 10.01.2020. Observations of project Finance received and sent to RSP on 16.01.2020.  Reply received on 29.2.2020. The same was forwarded to Project Finance. Observations on the reply received, were forwarded to RSP on 04.03.2020.  Reply received on 09.03.2020, further observations sent/ discussed with RSP and PAG meeting held on 20.03.2020. Proposal was processed on 24.04.2020 for approval of Board. Reply to observations of D(F) received on 27.6.2020.  Revised Agenda processed for approval on 4.7.2020.  Observations of Dir (P & BP) received on 22.07.2020 Forwarded to RSP on 23.07.2020, reply received on 04.08.2020. File processed on 14.08.2020.
<b>3</b>	<b>BSL</b>			
a)	Installation of 0.1 Mtpa Briquetting Unit for Calcined Lime and Dolo fines near Junction house (JH) of SMS-II, BSL on BOO basis	BOO	Feb'18  Dec'18  (revised)	Proposal sent to Operations & Corporate finance for observations/comments on 21.02.18. Observations of Corporate Projects and Operations sent to BSL on 19.03.18. In line with the Capex review meeting held on 10.08.18, the Proposal was returned to plant on 21.08.18.  <b>Proposal was discussed in COD meeting held on 13.11.18.COD cleared the proposal after deliberations. Proposal was re-submitted on 17.12.18 and reply to queries sent on 18.12.18. Proposal circulated to Finance and Operations for comments/observations. PAG held on 05.02.19, replies to the queries raised by PAG received from plant on 24.02.19. Clarifications on clause 5.2 (under heading period of contract) of Agenda note regarding transfer of plant to BSL are awaited from BSL for further processing of the proposal.</b>  Present Status at BSL :  a) Proposal is being processed with Period of Contract as 10 years [MTP+ Conversion Charges] + 5 years Conversion charges + 5 Years Extension on mutual agreement AND Facilities shall be removed on completion of contract period or non-performance by the BOO Operator.  b) Revised Tender Docs along with Draft BOO Agreement provided by CET, Ranchi in which Power and other utilities are kept chargeable.  c) The proposal is under review by BSL/CET, Ranchi on the issues of Short Term vs Long contract to assess the conversion charges, land leasing and modalities of power tariff.
b)	Replacement of existing Route Relay Interlocking (RRI) system by Solid State Interlocking (SSI) system at steel works station	45.15  <b>44.08 (revised)</b>	Jun'18	The proposal was deliberated in COD meeting held on 18.03.17 wherein it was decided to keep the proposal on hold. The same was communicated to BSL on 17.04.17.  In June 18, the proposal was resubmitted by BSL for Stage-1 approval with approval of ED (W) and ED (Projects) of BSL. In line with the Capex review meeting held on 10.08.18, the Proposal was returned to plant on 21.08.18.  <b>COD in its meeting held on 13.11.18 decided that the proposal will be discussed in the ensuing meeting. Proposal was discussed in COD Meeting held on 15.01.19. Considering the observations on the existing RRI System and benefits envisaged by BSL, COD cleared the proposal for further processing. COD also directed that the cost be updated and further, benefits envisaged along with financial analysis should be presented in detail during PAG meeting. MoM of COD sent to BSL. Reply awaited from BSL.</b>  <b>Present Status at BSL:</b> a) After review, the estimate has been reduced by RITES. b) Techno-commercial analysis is under review by User Deptt.
c)	Treatment & recycling of township sewage and waste water of BSL  (20 MGD capacity with associated facilities)	165.41	Mar'17	It is statutory to comply with the directives of JSPCB/CPCB for "Zero liquid discharge" in plant as well as township area and adhere to provisions in the "Consent to Operate" issued by JSPCB to BSL with assurance that STP would be installed.  The proposal was discussed in Mar'17 by COD wherein it was decided that the proposal be kept on hold. Further requirement of Pollution Control Board of Jharkhand to be verified. Accordingly, the requirement of the proposal has been verified by ECD, BSL and



Sl. No.	Plant / Scheme	Cost (Rs. Cr.)	Receipt at CO	Status
		Nil (BOO)	Dec'18 (revised)  Oct'19 (revised)	<p>the necessity of the proposal still exists.</p> <p>The proposal was further discussed in the COD meeting held on 05.10.17 and it was desired to explore the option of executing the said proposal on BOO basis. Accordingly, BSL along with CET prepared the said proposal on BOO basis and also provided a comparative analysis for consideration. Revised proposal submitted on 24.12.18.</p> <p>Considering the Statutory nature of the proposal, COD on 15.01.19, cleared the proposal for further processing. COD also directed that the Variance analysis of cost of treated water on EPC Vs BOO on like to like basis (including O&amp;M cost &amp; others), should be clearly brought out during PAG meeting. MoM of COD sent to BSL.</p> <p>Revised proposal on BOO basis received from BSL on 19.10.19. Proposal sent to Operations &amp; Corporate finance for observations/comments on 21.10.19. PAG held on 01.11.19. The observations of PAG regarding assessment and justification on capacity of proposed STP, estimated cost and payment model forwarded to BSL on 02.11.19. The same were studied by BSL as given below:</p> <ol style="list-style-type: none"> <li>User Deptt provided necessary inputs to CET for finalization of capacity of the Plant and Cost Estimate. Quality Parameters of the treated water has also been finalized by ECD.</li> <li>In the draft reply to PAG Queries by CET Ranchi vide email dtd 21/02/2020, CET suggested a new business Model for Implementation and requested BSL to finalize the commercial issues related to the new Model.</li> <li>In VC dated April 16,2020, CET suggested HAM (Hybrid Annuity Model) with 40% Equity to attract prospective bidders. The suggested business model is at variance with the basic premise of BOO where upfront capital had not been envisaged.</li> <li>So, it is under review by BSL before giving final go-ahead. In VC with CET Ranchi on 07/05/2020, it has been decided that CET will prepare a comparison chart of HAM, EPC &amp; BOO Model for 10 MGD &amp; 17 MGD STP.</li> <li>After reviewing scope of the work of the proposal, cost benefit analysis among capacities of STP vis-a-vis business model, final reply will be sent to Corporate Office.</li> <li>In view of current financial exigencies in SAIL, optimum capacity of the Plant required for environmental compliance is being worked out. Also, implementation methodology like EPC/BOO/HAM best suited to BSL is being discussed with all stakeholders</li> </ol> <p><u>Reply to the PAG queries has been received on 01.08.2020 as below :</u></p> <p>Based on the various inputs and suggestions provided by CET, a Meeting was held on 23rd July 2020 wherein a consensus was reached among all stakeholders of BSL for setting up one 10 MGD (45 MLD) Sewage Treatment Plant facilities at Bokaro Steel City with discharge of treated water into industrial circuit through Cooling Pond #2.</p> <p>Vide letter dtd 30th July 2020 ,CET, Ranchi has been requested to provide FR&amp;TS for "Installation of 10 MGD Sewage Treatment Plant (STP) at BSL Township and Recycling of Treated Water" on EPC basis.</p> <p>Salient features of the finalized STP proposal are :</p> <ol style="list-style-type: none"> <li>Capacity of the STP would be 10 MGD ( 45 MLD).</li> <li>The treated water will be taken into industrial circuit through Cooling Pond 2.</li> <li>Considering the financials of the proposal, it was decided to go on EPC model.</li> <li>As deemed necessary, ECD will convey the Revised Scheme to JPCB (Jharkhand Pollution Control Board)</li> </ol> <p><b>In view of the above mentioned changes suggested by BSL in the proposal, a mail has been sent to BSL on 10.08.20 to send a fresh proposal to CO with approval of the competent Authority for consideration for Stage-I approval.</b></p>
d)	High pressure water mist spray (HPWMS) fire-fighting and Fire detection alarm (FDA) system for category-I cable tunnels of BSL	37.77	Apr'19  May'20 (Revised)	<p>Queries regarding the proposal sent for clarification to BSL. The proposal however will be put up for consideration in next COD meeting.</p> <p>While clearing the proposal by COD in its meeting held on 24.07.19, COD advised that the relevant findings of recent fire incident at Oil Cellar of CRM-3 of BSL may also be considered and submit the revised proposal. <b>Minutes of COD along with observations of ED (Power) forwarded to BSL on 31.07.19 for submitting revised proposal.</b></p> <p><b>Revised proposal from BSL was received on 23.05.2020. However, clarifications on the same w.r.t. advice of COD have been sought from BSL on 26.05.2020 and the same are awaited.</b></p>





**Performance of Projects**

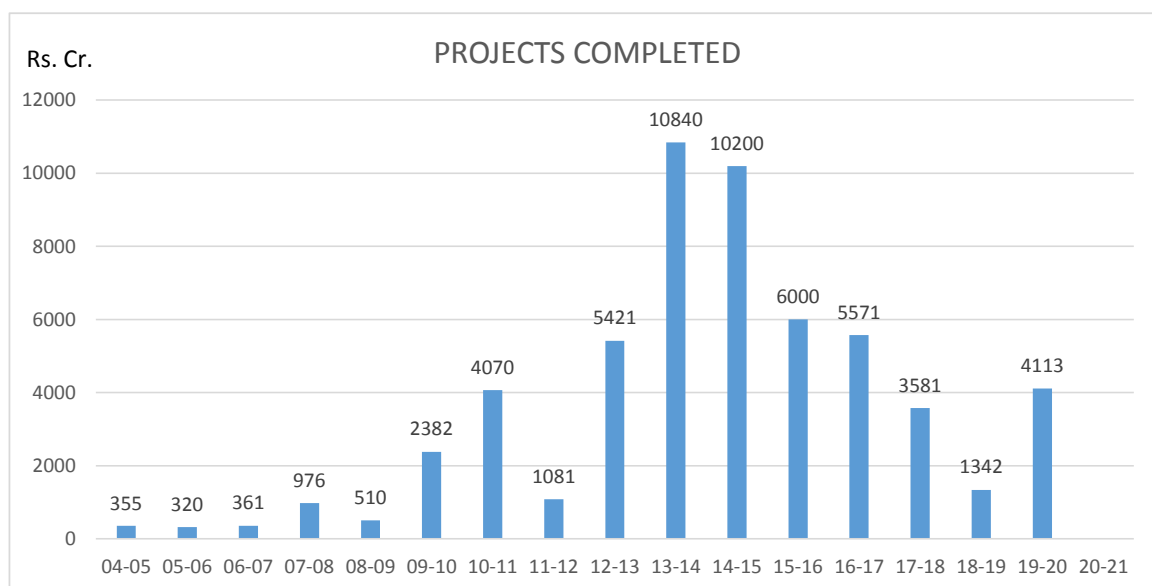
**परियोजनाओं का कार्य-निष्पादन**

As on 30.09.2020

**MAJOR OPERATIONALIZED PROJECTS / FACILITIES DURING 2020-21**

Sl. No.	Scheme	Sanctioned cost (NoC/ Net of ITC) (Rs. Cr.)	Anticipated cost (NoCNet of ITC) (Rs. Cr.)	Sanctioned Schedule	Start of operation
<b>A.</b>	<b>AMR</b>				
1					
2					
3					
4					
5					
	<b>Total AMR (NoC)</b>	<b>0.00</b>	<b>0.00</b>		
<b>B.</b>	<b>Expansion</b>				
	<b>Total</b>	<b>0.00</b>			
	<b>Grand Total (Expansion+ AMR) - NoC</b>	<b>0.00</b>			

**Projects Completed During FY 20-21 (Gross) - Rs. Cr. (appx)**



Capital Expenditure

	9th Plan	10th Plan	11th Plan (2007-2012)																
	(1997-2002)	(2002-2007)	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20		2020-21		
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	RE	Actual	BE	Outlay	Actual
																			Apr-Sep
BSP	1373.27	1132.76	633.7	800.15	1486.9	1787.05	3020.36	3708.49	4166.68	2049.49	1917.98	1863.14	1521.7	1443.61	1140.58	1183.26	1055.07	487.97	386.83
DSP	395.36	347.26	149.42	116.17	108.42	223.07	624.67	859.95	792.13	625.72	576.67	330.42	214.07	152.53	167.13	165.75	256.77	118.76	86.23
RSP	1470.88	704.12	256.29	1001.58	1441.22	2928.82	2963.37	2330.86	2084.45	1461.14	1276.72	1018.88	1869.48	998.14	1134.23	1211.86	1020.01	471.75	502.69
BSL	1355.07	484.34	380	912.16	1330.97	1333.83	1014.74	961.15	1216.14	627.6	723.48	835.65	1186.43	1299.79	930.52	948.34	1020.05	471.77	417.94
ISP	34.91	257.75	633.07	1732.48	4712.04	4098.68	2500.85	1404.25	1316.71	1245.1	973.42	583.44	172	213.53	190.19	199.41	284.00	131.35	48.43
ASP	16.68	66.87	28.4	24	17.58	11.28	21.95	14.02	7.58	2.72	3.32	2.19	1.04	1.46	3.00	2.15	4.00	1.85	0.09
SSP	55.23	14.99	44.02	493.2	887.23	463.75	331.53	55.07	61.16	21.59	43.89	27.87	4.39	8.61	5.00	3.49	4.00	1.85	1.77
VISP	25.34	13.31	7.8	52.63	19.84	9.59	5.39	3.23	2.49	2.42	21.53	8.42	1.89	2.42	4.00	1.32	3.00	1.39	0.36
RMD	57.25	100.58	34.35	65.86	501.13	375.02	479.2	264.21	128.33	314.08	209.85	156.6	92.15	132.65	383.35	375.06	290.00	134.13	27.37
RDCIS	18	18	6.58	10.24	7.41	9.52	12.79	10.65	14.54	18.2	5.8	10.24	7.1	5.29	13.99	10.23	10.00	4.63	2.30
CMO	23	15	2.2	10.22	19.61	25.08	35.24	24.08	26.44	32.57	35.57	21.67	5.42	6.83	6.00	5.92	24.00	11.10	0.04
CET	1	2	1.42	0.75	0.72	2.1	0.47	0.96	0.99	0.05	1.58	0.72	0.09	0	0.10	0.45	0.50	0.23	0.00
CO	26	13	1.53	6.87	69.11	9.84	2.61	7.42	7.78	3.32	6.82	2.06	7.13	3.93	6.40	1.95	14.60	6.75	0.28
CFP	17.24	9.96	2.21	6.82	4.16	2.39	7.94	86.49	65.06	39.19	33.61	16.88	7.07	2.14	3.50	2.65	4.00	1.85	0.33
<b>Sub-Total</b>	<b>4869.23</b>	<b>3179.94</b>	<b>2180.99</b>	<b>5233.13</b>	<b>10606.3</b>	<b>11280.02</b>	<b>11021.11</b>	<b>9730.83</b>	<b>9890.48</b>	<b>6443.19</b>	<b>5830.24</b>	<b>4878.19</b>	<b>5089.97</b>	<b>4270.93</b>	<b>3988.00</b>	<b>4111.84</b>	<b>3990.00</b>	<b>1845.38</b>	<b>1474.66</b>
CO (JV)								25.26		396.57	203.75	60.69	40	32.2	12.00	2.34	10.00	4.63	0.00
<b>TOTAL</b>	<b>4869.23</b>	<b>3179.94</b>	<b>2180.99</b>	<b>5233.13</b>	<b>10606.3</b>	<b>11280.02</b>	<b>11021.11</b>	<b>9756.09</b>	<b>9890.48</b>	<b>6839.76</b>	<b>6033.99</b>	<b>4938.88</b>	<b>5129.97</b>	<b>4303.13</b>	<b>4000.00</b>	<b>4114.18</b>	<b>4000.00</b>	<b>1850.01</b>	<b>1474.66</b>
															<b>102.85%</b>				<b>79.71%</b>

**SAIL's**  
**Expansion Plan**  
**सेल विस्तारीकरण की**  
**योजना**

## Summary: SAIL's Modernisation & Expansion Plan

### A: Capacity installed

(Million Tonnes)

		BSP	DSP	RSP	BSL	ISP	ASP	SSP	VISL	Total
<b>Hot Metal</b>	Installed Capacity	4.08	2.09	2.00	4.59	0.85	-	-	0.22	<b>13.82</b>
	After current Expansion	7.50	2.45	4.50	5.77	2.91	-	-	0.33	<b>23.46</b>
<b>Crude Steel</b>	Installed Capacity	3.93	1.80	1.90	4.36	0.50	0.23	-	0.12	<b>12.84</b>
	After current Expansion	7.00	2.20	4.20	4.61	2.50	0.48	0.18	0.23	<b>21.40</b>
<b>Saleable Steel</b>	Installed Capacity	3.15	1.59	1.67	3.78	0.42	0.18	0.18	0.10	<b>11.07</b>
	After current Expansion	6.56	2.12	3.99	4.18	2.39	0.43	0.34	0.22	<b>20.23</b>

### B: Cost break-up (Jun'09)

Plant	Cost				
	Expansion	Value Addition/ Product-Mix improvement	Tech. Up- gradation/ Modernisation	Sustenance incl. de- bottlenecking, AMR, environment	Total
BSP	10,293	1,149	2,699	3,124	17,266
RSP	9,932	-	370	1,510	11,812
DSP	-	1,895	186	795	2,875
BSL	595	3,996	254	1,480	6,325
ISP	16,408	-	-	-	16,408
SSP	1,902	-	-	-	1,902
<b>Total</b>	<b>39,131</b>	<b>7,039</b>	<b>3,509</b>	<b>6,909</b>	<b>56,588</b>
Ongoing sustenance schemes	-	-	-	5,282	5,282
				12,191	61,870#

# Besides provision of about Rs.10,264 Cr. has been kept for development of RMD & Rowghat mines.



**C: Approved Cost & Expenditures (Rs. Cr.)**

Plant	Approved Cost@			Actual Expenditure till Sep'20 On Gross basis
	Gross	Net of Cenvat	FE Component	
BSP*	21,344	19,857	3,604	20,428
DSP%	3,366	3,169	489	3,155
RSP#	14,240	13,307	2,264	13,182
BSL	6,951	6,325	1,275	7,185
ISP \$	20,802	19,235	3,180	19,006
SSP#	2,453	2,371	690	2,378
<b>Sub-Total</b>	<b>69,156</b>	<b>64,263</b>	<b>11,502</b>	<b>65,334</b>
Rowghat	3,600	3,600	-	1,784
RMD	6,664	6,664	-	
Sustenance schemes	5,758	5,282	-	4,468
<b>Total</b>	<b>85,178</b>	<b>79,809</b>	<b>11,502</b>	<b>71,586</b>

@ Including EDC, IDC & Contingency

\*RCE for MODEX of BSP has been approved in Apr'19.

#RCE for MODEX of RSP & SSP has been approved in Aug'19.

\$ RCE for MODEX of ISP has been approved in Oct'19.

% RCE for MODEX of DSP has been approved in Dec'19.

## **BSP – Expansion of Bhilai Steel Plant**

1. **'In-Principle' Approval** : Apr'07
2. **Cost** (Rs. in crore):
  - a) Indicative cost (Apr'07) : Rs.11,262 (Net of CENVAT benefit of Rs.1203 Crore)
  - b) Revised estimate (Jul'08) : Rs.21,139 (Net of CENVAT benefit of Rs.2301 Crore)
  - c) Revised estimate (Jun'09) : Rs.17,265 (Net of CENVAT benefit of Rs.1581 Crore)  
(FE Component: Rs.3112 Crore)
  - d) Revised estimate (Apr'19) : Rs.19,857 (Net of CENVAT/ ITC benefit of Rs.1,487 Crore)  
(FE Component: Rs.3,604 Crore)
  - e) Expenditure (**Till Sep'20**) : **Rs.20,427.97 Crore**
3. **Approved** : Mar'13
- Actual Completion** : Modernized Plant dedicated to nation in Jun'18.
4. **Production (MTPA)**

Item	Installed Capacity	2005-06 (Base Case)	After Expansion
Hot Metal	4.080	5.18	7.5
Crude Steel	3.930	5.00	7.0
Saleable Steel	3.153	4.28	6.56

### 5. **Techno-economic parameters**

Item	2005-06 (Base Case)	After Expansion
Coke/ Fuel Rate (Kg/thm)	497	410
BF Productivity (t/m <sup>3</sup> /d)	1.72	2.08
Specific energy (Gcal/tcs)	6.79	5.96

### 6. **Objectives:**

- Phasing out of low yield and energy intensive units viz. twin hearth furnace, ingot casting, soaking pits and blooming and billet mill
- Reduction of semis by enhancing finished steel production;
- Broadening and value addition in product-mix for higher flexibility and profitability;
- To meet requirement of Indian Railways up to 1.5 Mtpa of class A heavier rails

#### Facilities envisaged in Current Phase

- New 7 meter tall coke oven battery No. 11 (0.88 Mtpa) - **Completed**
  - New blast furnace of volume 4060 m<sup>3</sup> (2.8 Mtpa) - **Completed.**
  - Second sinter machine in Sinter Plant-3 (3.7 Mtpa) - **Completed**
  - New Steel Melting Shop (SMS-3) with complete Secondary Refining facilities and New Billet Casters/ Billet-cum-Bloom Caster, Beam Blank Caster (4.0 Mtpa), - under implementation. 1<sup>st</sup> heat from Converter-1 was tapped on 31.03.18 & treated in Ladle Furnace-1. Subsequently, heats were successfully processed in Argon Rinsing Station (ARS-1), Billet Caster-1 & 2.1<sup>st</sup> heat in Billet-cum-Bloom Caster taken successfully on 28.09.18. 1<sup>st</sup> heat from Converter-2 was tapped on 27.11.18. **1<sup>st</sup> heat from Converter-3 was tapped on 20.02.20.**
- Overall, all 3 Converters, 3 out of 4 Casters along with all facilities under Secondary refining have been completed. Due diligence for completion of balance 1 caster is in progress.**
- Bar & Rod Mill (0.9 Mtpa)-**Completed.**
  - Universal Rail Mill (1.2 Mtpa) - **Completed**
  - Augmentation of existing auxiliary and utility facilities – **under progressive completion**
  - **Covid-19 pandemic has affected completion of balance work during March & April, 2020.**

### 7. **Present Status**

- Hon'ble Minister of Steel, laid the foundation stone for expansion plan of BSP at Bhilai on 10.02.08.

- After overall review of SAIL expansion plans in June'09, SAIL board decided to defer package viz. Up gradation of BF-6, Combi caster in SMS-II, Reheating furnace in Plate Mill and New Universal Beam Mill.
- Contracts have been signed for all major packages. Completed facilities include SMS-III (31.03.18, 1<sup>st</sup> heat), BF-8 (02.02.18- Blowing in), BRM (Mar'17-Bar line), Universal Rail Mill (Nov'16), Rail Welding Line (Mar'16), COB-11 (Sep'14), 2<sup>nd</sup> Sinter Machine in SP-III (Mar'14), OHP-A (Jun'13) and 2 x 1250 tpd Oxygen Plant (BOO basis) (Mar'14). Also, some of the linked facilities that have been completed include up-gradation of Plate Mill, Compressed Air Station No.4, Lime dosing system at Sinter Plant-2, Rebuilding of Coke Oven Battery No.6 and 700 tpd ASU-4 in Oxygen Plant-II.
- Balance works of SMS-III, Ore Handling Plant Part-B and Fuel & Flux Crushing & Screening System; are in various stages of implementation.
- **On 14.06.18 Hon'ble Prime Minister dedicated the modernized Bhilai Steel Plant of SAIL to nation.**
- **Details of Shop which were shutdown/ phased out at BSP:**
  - Sinter Plant-1: May, 2011, Capacity: 2.04 MTPA
  - Blast Furnace-2: 11.10.17 (2017), Capacity: 0.37 MTPA
  - Blast Furnace-3: 17.11.18 (2018), Capacity: 0.37 MTPA

## Package-wise Details for Expansion of Bhilai Steel Plant

### Packages under Implementation:

SI. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
1	Augmentation of Ore Handling Plant Part-A	HEC	184.74 (nil)  194.10 (nil)  Gross Cost – 213.99	190.09	09.04.08	Apr'10 (Jun'13)	<ul style="list-style-type: none"> <li>▪ Commissioning certificate (Part facility) issued on 04.04.16 w.e.f. 29.03.16.</li> <li>▪ <b>Commissioning Certificate issued on 20.03.17 w.e.f.15.03.17.</b></li> <li>▪ <b>Contract closed.</b></li> </ul>
2	OHP Part B o Issues: ❖ Inadequate deployment of manpower & resources and slow progress of work.	EPI	525.86 (nil)  570.02 (nil)  Gross Cost – 599.02	519.39	30.04.10	Apr'12 (Iron ore route of BF-8 completed)  [Balance facilities & Commissioning progressively by Dec'2020]	<ul style="list-style-type: none"> <li>▪ 372780/402542 m<sup>3</sup> (93%) earthwork and 112988/113000 m<sup>3</sup> concreting completed.</li> <li>▪ 14820/16252 T (92%) bldg. Strs. fabricated and 14802/16252 T (89%) erected. 4467/4487 T (99%) Tech. Strs. fabricated &amp; 4210/4487 T (94 %) erected.</li> <li>▪ All 4600 T Mech. equipment ordered &amp; supplied and 4510/4600 T erected.</li> <li>▪ All 1726/1750 T Electrical equipment supplied &amp; 1598/1750 T erected.</li> <li>▪ PAC (Part facility) issued on 02.01.18.</li> <li>▪ PAC (Part facility) issued on 22.05.18 w.e.f. 10.05.18.</li> <li>▪ 3<sup>rd</sup>Part PAC issued on 28.12.19.</li> <li>▪ M/s EPI is failing continuously in their commitment.</li> <li>▪ Augmentation of ore supply from existing OHP to BF-7&amp; SMS-II (J-series route) work has been de-scoped from M/s EPIL.</li> <li>▪ <b>Load trial of Bucket Wheel Reclaimer#7A (4<sup>th</sup> reclaimer) done on 15.05.2020.</b></li> <li>▪ <b>Covid-19 pandemic has affected site work Since March, 2020.</b></li> <li>▪ <b>Final PAC issued w.e.f. 07.08.2020.</b></li> </ul>
3	Augmentation of fuel & flux crushing facilities o ISSUES: ❖ Inadequate deployment of manpower & resources and slow progress of work.	EPI	272.65 (nil)  290.70 (nil)  Gross Cost – 307.56	259.04	15.02.11	Dec'12 (Coke route & fines for BF-8 completed)  [Balance facilities & Commissioning progressively by Dec'2020]	<ul style="list-style-type: none"> <li>▪ 172856/180000 m<sup>3</sup> earthwork and 32651/32400 m<sup>3</sup> concreting completed.</li> <li>▪ 10866/11000 T structure supplied and 10651/11000 T erected.</li> <li>▪ 3115/3200 T Mechanical Equipment supplied &amp; 3112/3200 T erected.</li> <li>▪ 896/910 T Elect. Eqpt. ordered, 896/910 T supplied &amp; 732/910 T (80%) erected.</li> <li>▪ Coke route for supply of coke from existing batteries (KD1 route) to BF#8 has been completed. Integrated trial with coke also done and now it has been connected to coke supply route of BF-8 on 05.09.18.</li> <li>▪ The Part PAC for return sinter lines line issued w.e.f. 08.10.13.</li> <li>▪ The Part PAC for Priority route of CSP issued w.e.f. 18.10.14.</li> <li>▪ The Part PAC for Coke feeding conveyors to BF-8 stock house issued w.e.f. 29.01.18.</li> <li>▪ The Part PAC for Coke breeze and Coke evacuation route issued w.e.f. 29.01.18.</li> <li>▪ Part-PAC for Four Facilities issued on 31.05.2018.</li> <li>▪ <b>Covid-19 pandemic has affected site work Since March, 2020.</b></li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
4	New Coal Handling Plant  o ISSUES: ❖ De-Scoping of facilities due to non-availability of front/shutdown is being considered by BSP.	HEC	463.80 (nil)  470.50 (nil)  Gross Cost – 504.98	421.49	20.09.08	Mar'11 <b>(Apr'16; Priority Route, balance completed in Dec'19)</b>	<ul style="list-style-type: none"> <li>▪ Part PAC issued on 19.03.15 for Dispatcher Building.</li> <li>▪ PAC issued on 27.04.16 for Priority coal route.</li> <li>▪ 3<sup>rd</sup> Part PAC issued on 17.03.18 w.e.f. 08.03.18 for SCR-5 &amp; 6, 4 nos. Silos along with 37 new conveyors.</li> <li>▪ 4<sup>th</sup> Part PAC issued on 16.02.19 w.e.f. 31.12.18 for 25 nos. augmented conveyors, 14 nos APDs of CPP-2 &amp; new WT-7 with 6 nos. associated conveyors and side arm charger.</li> <li>▪ PAC for balance facilities of CHP issued on 28.11.19 w.e.f 22.11.19.</li> <li>▪ <b>Commissioning Certificate issued on 03.01.2020 w.e.f. 25.12.2019.</b></li> </ul>
5	New Coke Oven Battery (COB-11)  <b>Capacity- 881400 t/yr Gross Coke</b>	BEC / Giprokoks/ CUI	403.40 (Euro 8,690,000)  441.34 (Euro 8,690,000)  Gross Cost – 455.33	441.58	16.09.08	Jan'11 <b>(Sep'14)</b>	<ul style="list-style-type: none"> <li>▪ PAC issued on 05.12.14 w.e.f. 30.09.14.</li> <li>▪ Commissioning Certificate issued w.e.f. 03.10.2014.</li> <li>▪ PG certificate issued on 16.04.2018 w.e.f. 23.03.2018</li> <li>▪ <b>FAC issued on 10.01.2020 w.e.f. 19.11.2019.</b></li> </ul>
6	Oven Machines & land based Pushing Emission Control (PEC) for COB-11	BEC/ KBK, Ukraine	105.61 (Euro 30,000)  109.90 (Euro 30,000)  Gross Cost – 121.49	116.34	19.09.08	Sep'10 <b>(Sep'14)</b>	<ul style="list-style-type: none"> <li>▪ All 1776 T Mechanical equipment supplied &amp; erected.</li> <li>▪ All 232 T Electrical equipment supplied &amp; erected.</li> <li>▪ Part PAC for all Oven Machines issued on 05.12.14 w.e.f. 29.09.14.</li> <li>▪ PAC issued on 23.01.18 w.e.f 23.11.17.</li> <li>▪ <b>Commissioning Certificate issued on 23.01.18 w.e.f. 27.12.17.</b></li> <li>▪ <b>FAC issued.</b></li> </ul>
7	Procurement of Silica bricks & Mortar for COB-11	OCL Ltd, India	43.74 (nil)  46.90 (nil)  Gross Cost – 51.03	47.28	12.07.10	July'11 <b>(May'12)</b>	<ul style="list-style-type: none"> <li>▪ All 14410 T Silica bricks and all 1700 T Mortar supplied.</li> </ul>
8	Renovation, Augmentation & modification of existing Phenolic Effluent Treatment Plant at COB-11	UEM India Ltd.	21.19 (nil)  20.40 (nil)  Gross Cost – 21.14	20.44	25.06.10	June'11 <b>(Dec'16)</b>	<ul style="list-style-type: none"> <li>▪ All 30000 m<sup>3</sup> earthwork and all 10050 m<sup>3</sup> concreting completed.</li> <li>▪ 508/509 T mech. Equip. supplied, 469/509 T (92%) erected.</li> <li>▪ All 190 T Structure erections completed.</li> <li>▪ All 173 T elect. Equip supplied &amp; erected.</li> <li>▪ Part PAC issued on 26.04.16 w.e.f. 27.01.16.</li> <li>▪ <b>PAC issued on 16.12.16 w.e.f. 31.10.16.</b></li> <li>▪ <b>RPN notice issued twice latest on 03.02.20, to be processed for short closure.</b></li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
9	CDCP for new COB-11 <b>4 Modules of Capacity - 50 t/hr each</b>	BEC/ CUI/ Giprokoks	356.72 (Euro 7,350,000)  369.10 (Euro 7,350,000)  Gross Cost – 404.46	382.88	18.09.08	Oct'10 (Oct'14)	<ul style="list-style-type: none"> <li>▪ PAC issued on 26.03.15 w.e.f. 23.02.15.</li> <li>▪ <b>Commissioning Certificate issued w.e.f. 17.07.2015.</b></li> <li>▪ <b>PG test done</b></li> <li>▪ <b>FAC issued.</b></li> </ul>
10	By-Product Plant for COB-11	McNally Bharat	353.52 (nil)  364.10 (nil)  Gross Cost – 392.18	339.47	20.04.11	Apr'13 (Sep'14, Phase-II-) <b>Jul'18</b>	<ul style="list-style-type: none"> <li>▪ Part commissioning certificate (for phase-1) issued on 27.08.15 w.e.f. 20.07.15.</li> <li>▪ Part PAC for Phase-II issued on 07.07.18 w.e.f. 03.07.18.</li> <li>▪ PAC issued w.e.f. 16.08.18.</li> <li>▪ Phase–II Commissioned on 10.06.19.</li> <li>▪ Phase–III Online gas charging done during 10.06-19.06.19 and put in operation.</li> <li>▪ <b>Commissioning Certificate for complete package issued on 19.02.2020 w.e.f. 22.06.2019.</b></li> <li>▪ <b>PG test done</b></li> <li>▪ <b>FAC issued.</b></li> </ul>
11	Modification of Sinter Plant – 2						
I	Cold sinter screening system & Hearth Layer feeding arrangement	Petro general Engg. Works	22.86 (nil)  22.20 (nil)  Gross Cost – 23.87	20.73	05.06.10	Dec'11 (Nov'2020)	<ul style="list-style-type: none"> <li>▪ All 7850 m<sup>3</sup> earth work &amp; 1396/1400 m<sup>3</sup> (99%) concreting completed.</li> <li>▪ All 383 T bldg. strl. Fabrication and 381/383 T (99%) erection completed.</li> <li>▪ All 461 T techno. Strl. fabrication and 391/461 T (85%) erection completed.</li> <li>▪ All 267 T mech. equip ordered, 266 T (99%) supplied and 227 T (85%) erected.</li> <li>▪ All 20 T electrical equip ordered, 18 T (90%) supplied &amp; 10 T (50%) erected.</li> </ul>
II	Lime dosing system	Petro General Engg. Works	1.26 (nil)  1.20 (nil)  Gross Cost – 1.33	1.24	05.06.10	Mar'11 (May'11)	<ul style="list-style-type: none"> <li>▪ <b>Completed</b></li> </ul>
III	Electrics & Automation system	Siemens	8.63 (nil)  8.30 (nil)  Gross Cost –		19.06.10	Dec'11 (Nov'14)	<ul style="list-style-type: none"> <li>▪ <b>Completed</b></li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			8.88	8.02			
IV	ESP based Plant de-dusting System - RPN issued to M/s Scintillant Projects on 23.12.14.	Enviropol Engineers Pvt. Limited	7.99 (nil)  6.60 (nil)  Gross Cost – 7.12	8.92	26.07.17	Nov'17 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ 60 T Tech. Strl. fabrication and 57 T (95%) erection completed.</li> <li>▪ All 582 T mech. equip supplied and 543 T (93%) erected.</li> <li>▪ All 19.25 T electrical equip ordered, 18.75 T (97%) supplied and 13 T (68%) erected.</li> <li>▪ <b>RPN issued to M/s Scintillant Projects on 23.12.14.</b></li> <li>▪ Contract signed with Consortium of M/s Enviropol Engineers Pvt. Limited, Noida (Leader) &amp; M/s Enviro Care Filtration &amp; Systems, Kolkata on 26.07.17 at a total contract price of Rs.2.79 Crore with completion period of 4months.</li> <li>▪ 50/60 m<sup>3</sup> concreting completed.</li> <li>▪ All 25 T Mechanical Equipment supplied &amp; 86/100 T erected.</li> <li>▪ 2/3 T Electrical Equipment supplied &amp; 2/3 T erected.</li> <li>▪ <b>PAC issued on 19.05.2020 w.e.f. 26.12.2019.</b></li> </ul>
12	2 <sup>nd</sup> Sinter Machine at SP-3 (3.7 Mtpa)	L&T / Outotech	689.58 (Euro 19,361,839)  666.70 (Euro 19,361,839)  Gross Cost – 727.68	760.35	28.08.10	Dec'12 <b>(Mar'14)</b>	<ul style="list-style-type: none"> <li>▪ <b>Commissioning certificate issued w.e.f. 28.11.14.</b></li> <li>▪ 1<sup>st</sup>PG test for 2<sup>nd</sup>sinter machine done from 22.09.16 to 29.09.16.</li> <li>▪ Average sinter production during PG test is 7045 t (rated capacity11232 t/day).</li> <li>▪ Production during PG Test was affected by interruptions/ stoppages in raw material supply.</li> <li>▪ <b>2<sup>nd</sup> PG test was conducted from 08.02.2019 to 15.02.2019. PG certificate issued on 25.04.19 w.e.f. 15.04.19.</b></li> <li>▪ <b>FAC issued on 31.12.19.</b></li> </ul>
13	Boilers with Steam Turbo Blower building (3*150 tph Boilers)	Fujian Longking, China /Allied Energy Systems	282.28 (USD 17,131,000)  314.10 (USD 17,131,000)  Gross Cost – 338.56	282.05	24.03.12	Nov'13 (Boiler-2 in <b>Oct'17</b> , Boiler-1 in <b>Aug'18</b> , Boiler-7 by Dec'2020)	<ul style="list-style-type: none"> <li>▪ 33560/33600 m<sup>3</sup> earthwork and 13036/13260 m<sup>3</sup> concreting completed.</li> <li>▪ 4030/4100 T bldg. strs. Fabricated &amp; 4027/4100 T erected.</li> <li>▪ All 5402 T mech. eqpt ordered, 5398/5402 T (99%) supplied &amp; 5365/5402 T erected. All 515 T elect. eqpt. ordered, 510/515 T supplied and 490/515 T erected.</li> <li>▪ All 378 T refractory erected.</li> <li>▪ Part PAC for boiler no. # 2 issued on 05.01.18.</li> <li>▪ Part PAC for boiler no. # 1 issued on 26.05.18.</li> <li>▪ Commissioning Certificate (Part) for boiler no. # 2 issued on 05.03.18 w.e.f. 31.01.18.</li> <li>▪ Boiler no.- 1 Commissioned on 01.09.18.</li> <li>▪ <b>Covid-19 pandemic has affected site work Since March, 2020.</b></li> </ul>
14	Steam Turbine Generator, Back Pressure Turbine Generator, Cooling water system etc. (1*25 MW STG)	Triveni Engg.	170.50 (nil)  176.80 (nil)  Gross Cost –		19.01.12	Jul'13 <b>(Sep'16)</b>	<ul style="list-style-type: none"> <li>▪ PAC issued on 07.09.16 w.e.f. 08.08.16.</li> <li>▪ Power generation started from 18.07.19.</li> <li>▪ Commissioning trial of 25 MW STG completed on 30.07.19.</li> <li>▪ <b>Commissioning certificate issued w.e.f. 30.07.19.</b></li> <li>▪ <b>PG test done.</b></li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			192.47	169.42			
15	3x225 m <sup>3</sup> /h DM water Plant for PBS	Techno fab / ARTES, Italy	27.75 (nil)  26.30 (nil)  Gross Cost – 27.52	26.45	25.02.12	Feb'13 <b>(Feb'16;</b> All 3 streams in operation)	<ul style="list-style-type: none"> <li>▪ PAC issued on 08.11.16.</li> <li>▪ <b>Commissioning certificate issued on 17.08.17 w.e.f. 05.08.17.</b></li> </ul>
16	BF – 8 (2.810 Mtpa)	Paul Wurth/ L&T	1579.13 (Euro 65,668,550)  1682.80 (Euro 65,668,550)  Gross Cost – 1823.77	1717.61	30.08.10	Dec'12  <b>(Mar'17-</b> stove heating, <b>Furnace</b> <b>“Blowing-in”</b> <b>done in Feb'18)</b>	<ul style="list-style-type: none"> <li>▪ Furnace Blowing-in on 02.02.18.</li> <li>▪ Furnace hot metal production started from 04.02.18.</li> <li>▪ BF-8 has produced best ever hot metal of 9,150 T on 19.09.2020 and recorded its best monthly production of 2,19,570 Ton in March'2020.</li> <li>▪ Hot metal production from BF-8 is as follows: <ul style="list-style-type: none"> <li>○ 2017-18 : 1,69,882 T</li> <li>○ 2018-19 : 18,24,811 T</li> <li>○ 2019-2020: 23,63,481 T</li> <li>○ <b>2020-2021 (Till Sep'20): 11,84,660 T</b></li> </ul> </li> <li>▪ 1<sup>st</sup> Part PAC issued on 06.03.17.</li> <li>▪ 2<sup>nd</sup> Part PAC issued on 23.12.17.</li> <li>▪ 3<sup>rd</sup> Part PAC issued on 05.09.18.</li> <li>▪ PAC issued on 20.02.19.</li> <li>▪ <b>Commissioning certificate issued on 14.08.19 w.e.f. 19.07.19.</b></li> </ul>
17	Turbo Blower for BF-8 Discharge Volume-3*3650 Nm <sup>3</sup>	BHEL	256.75 (Euro 12,275,000)  263.00 (Euro 12,275,000)  Gross Cost – 286.29	250.36	11.11.10	Feb'13 (TB-2 in <b>Mar'17</b> TB-3 in <b>Sep'17</b> & TB-1 in <b>Jan'18)</b>	<ul style="list-style-type: none"> <li>▪ All 3 Turbo Blowers are ready.</li> <li>▪ Commissioning certificate issued on 30.03.18 w.e.f. 07.02.18.</li> <li>▪ TB-2 &amp; TB-3, PG test completed during 19-20.03.19.</li> </ul>
18	Hot Metal Handling System	Qinhuangdao Quiney, China/ AIFL	108.20 (USD 10,272,820& Euro 318,360)  121.70 (USD		10.09.10	May'12 <b>(Mar'18)</b>	<ul style="list-style-type: none"> <li>▪ All 17000 m<sup>3</sup> earthwork and 5040 m<sup>3</sup> concreting completed. All 875 T building strl. fabricated and erected.</li> <li>▪ All 370 T mech. Equip. (Indg.) ordered and 368/370 T supplied. All 2200 T mech. Equip (Imp) supplied. 2565/ 2570 T Mech. Eqpt erected.</li> <li>▪ 100 T elec. equip (Indg.) and all 25 T Elec. equip (Imp.) ordered; 99/100 T Elect equip (Indg.) &amp; 24.5/25 T Elect eqpt (Imp) supplied. 123/ 125 T Elec. Eqpt erected.</li> <li>▪ All 2191 T refractory supplied &amp; erected.</li> </ul>



Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			10,272,820 & Euro 318,360  Gross Cost – 131.77	103.22			<ul style="list-style-type: none"> <li>All 12 PLTC are ready and being made operational as per requirement of BF-8.</li> <li>Part PAC issued w.e.f. 28.01.18.</li> <li>Work of TLMS is pending for which RPN issued on 24.06.2020.</li> </ul>
19	Augmentation of material handling facilities in SMS-II (75/15 T EOT crane, 180 T Transfer car, 5 T under slung crane)	Anupam Industries	8.83 (nil)  8.60 (nil)  Gross Cost – 9.45	7.78	15.03.11	Dec'11 (Sep'2020)	<ul style="list-style-type: none"> <li>Design Engg. Completed.</li> <li>All 187.3 T Mechanical equipment supplied &amp; 171 T erected.</li> <li>All 44.5 T Electrical equipment supplied &amp; 43/ 44.5 T erected.</li> <li>EOT Crane &amp; Transfer Car – All Defects eliminated &amp; handed over to Operation. Under Slung Crane to be de-scoped.</li> <li>DSO Strengthening work done.</li> <li>Commissioning spare supply in progress.</li> </ul>
20	Hot Metal De-sulphurisation in SMS-3 Capacity-160 T each of 2 stations	ESM, USA/ Beekay	37.73 (USD 2,775,000)  42.80 (USD 2,775,000)  Gross Cost – 49.25	34.65	06.10.08	Mar'11 (Apr'2021)	<ul style="list-style-type: none"> <li>295/300 T (98%) Mech. eqpt. (indg.) &amp; All 60 T Mech. equip (Imp) ordered. 295/300 T (98%) Mech. Equip (Indg.) &amp; all 15 T Mech. Equip (Imp) supplied.</li> <li>All 60 T elect equip (Indg.) ordered; 20.5 T elect equip (Indg.) supplied. All 2 T Elect equip (Imp) supplied.</li> <li>All 420 T structure fabricated. 135/420 T structure erected.</li> <li>Commercial issues raised by the party are under resolution.</li> </ul>
21	BOF shop – Technological package Production Capacity-4.13 MTPA Converter Capacity-160/180 T (3 nos.) o ISSUES: ❖ M/s EPC formerly M/s Essar Projects Ltd. has been referred to National Company Law Tribunal (NCLT) on account of which all payments is controlled by Interim Resolution Professional (IRP). IRP appointed in Apr'18.	Siemens- VAI	1352.10 (Euro 90,640,000)  1377.70 (Euro 90,640,000)  Gross Cost – 1554.01	1419.81	24.10.08	Aug'11 (Mar'18- Converter-1; Nov'18- Converter-2; Feb'2020- Converter-3)	<ul style="list-style-type: none"> <li>All 22177 T mech. (Indg.) equip &amp; all 2426 T Mech. (Imp) equip ordered. 22150/ 22177 T (99%) Mech. (Indg.) equip &amp; 2412/2426 T (99%) Mech. (Imp.) equip supplied &amp; all 2059 T erected.</li> <li>All 349 T Electrical Imported equip supplied. 2135/2139 T Electrical Indg. Equip ordered &amp; 2133/2139 T Elect. (Indg.) Eqpt. supplied and 1362/1400 T erected.</li> <li>1<sup>st</sup> heat from Converter-1 was tapped on 31.03.18 and treated in Ladle Furnace-1.</li> <li>First Heat taken from Converter-2 on 27.11.18.</li> <li>Hot trials of Converter-3 done &amp; First heat taken on 20.02.2020</li> <li>Part PAC issued on 31.03.18 for Converter 1.</li> <li>Part PAC issued on 27.11.18 for Converter 2.</li> <li>Commissioning test of Converter#2 done on 29.05.19. Commissioning certificate issued on 08.11.2019.</li> <li>Commissioning certificate for Converter-1 issued on 17.12.2019 w.e.f. 16.11.2019.</li> <li>Preliminary Acceptance Certificate for Converter-3 issued on 19.02.2020 w.e.f. 17.02.2020.</li> </ul> <p>Production during 2019-20: 11,37,236 Tonnes. Production during 2020-21 (Till Sep'20): 8,87,130 Tonnes.</p>
22	CCP-technological pkg. Production Capacity-4 MTPA	Siemens- VAI	782.32 (Euro		18.04.09	Dec'11 (Mar'18- Caster-	<ul style="list-style-type: none"> <li>10396/10791 T (95%) Mech. (Indg.) equipment and 3299/3299 T (99%) mech. (Imp.) equip supplied.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP												
	No. of Casters x Strands 2 x6 Billet Casters 1 x 6 Billet cum Bloom Caster 1 x 3 Beam Blank Caster o ISSUES: ❖ M/s EPC formerly M/s Essar Projects Ltd. has been referred to National Company Law Tribunal (NCLT) on account of which all payments will be controlled by Interim Resolution Professional (IRP). IRP appointed in Apr'18.		51,493,469  789.10 <i>(Euro)</i> 51,493,469  Gross Cost – 909.87	768.69		1; <b>May'18</b> -Caster-2, <b>Sep'18</b> -Caster-3)	<ul style="list-style-type: none"> <li>▪ All 239 Elect (Imp.) equip supplied; 1860/1908 T (96%) Elect (Indg.) equip supplied and 933/950 T Elec. Eqpt. erected.</li> <li>▪ 1480/2200 T refractory supplied.</li> <li>▪ Hot trials taken in CK-1 on 09.04.18 and CK- 2 on 10.05.18.</li> <li>▪ 1<sup>st</sup> heat in CV-1 taken successfully on 28.09.18.</li> <li>▪ CK1- Part PAC issued on 30.03.18.</li> <li>▪ CK2- Part PAC issued on 10.05.18.</li> <li>▪ CV1- Part PAC issued on 25.09.18.</li> <li>▪ <b>Commissioning certificate for CV-1 issued on 18.12.2019 w.e.f. 25.10.2019.</b></li> <li>▪ <b>Commissioning certificate issued to Billet caster-2 (CK-2) on 06.08.2020 w.e.f. 28.01.2020</b></li> <li>▪ <b>Commissioning certificate issued to Billet caster-1 (CK-1) on 22.08.2020 w.e.f. 05.05.2020.</b></li> <li>▪ <b>Covid-19 pandemic has affected site work Since March, 2020.</b></li> <li>▪ <b>Production data:</b></li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Year</th> <th>Billet</th> <th>Bloom</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>5,78,560 T</td> <td>5,58,676 T</td> <td>11,37,236 T</td> </tr> <tr> <td>2020-21 (Till Sep'20)</td> <td>5,13,999 T</td> <td>3,72,798 T</td> <td>8,86,797 T</td> </tr> </tbody> </table>	Year	Billet	Bloom	Total	2019-20	5,78,560 T	5,58,676 T	11,37,236 T	2020-21 (Till Sep'20)	5,13,999 T	3,72,798 T	8,86,797 T
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2019-20	5,78,560 T	5,58,676 T	11,37,236 T																
2020-21 (Till Sep'20)	5,13,999 T	3,72,798 T	8,86,797 T																
23	Structural Work for BOF & CCP o ISSUES: ❖ Contract terminated	Era Infra	611.66- including free steel (Nil)  588.94- including free steel (Nil)  Gross Cost – 607.68	597.65	30.09.09	Sep'11 (RPN Case) (Dec'2020)	<ul style="list-style-type: none"> <li>▪ 106450/106947 T steel supplied and structure fabrication 62541T in BOF area &amp; 43800T in CCP area completed.</li> <li>▪ 105335/106000 T (99%) structures fabricated &amp; 94144/106000 T erected.</li> <li>▪ MECON has revised the scope of work in phases from 63,000 MT to 1,13,500 MT.</li> <li>▪ RPN issued to M/s Era Infrastructure on 09.08.17and balance works split in 4 packages and order placed to alternate agencies.</li> <li>▪ <b>Contract terminated on 21.10.17.</b></li> </ul>												
i.	Structural erection works including modification of critical area and finishing of already erected structures including supply of consumables for identified areas of BOF & CCP complex in SMS-III	M/s HSCL	6.91 (Nil)  6.70 (Nil)  Gross Cost –	15.86	09.08.17	Feb'18 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ 3307/3365 T structure erected.</li> <li>▪ 5479/5572T erected structure finished.</li> <li>▪ 1349/1400 T Structure fabricated.</li> </ul>												
ii	Balance Structural works including finishing of already erected structures for completion of BOF & CCP Complex in SMS- III – Block II & III of BOF Shop (High Bay) (Fabrication, Erection,	M/s Ajeet Enterprise Bhilai	11.18 (Nil)  10.90		23.10.17	Feb'18 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ 2454.4/2456 T Fabricated structure erected.</li> <li>▪ 25230/25600 T erected structure finished.</li> <li>▪ 1494/1506 T structure fabricated.</li> </ul>												

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status	BSP
	Finishing as required of steel structures)		(Nil) Gross Cost –	20.73				
iii	Balance Structural works including finishing of already erected structures for completion of BOF & CCP Complex in SMS- III – Block I of BOF & CCP, Scrap & Ladle Bay including Peripheral buildings (Fabrication, Erection, Finishing as required of steel structures)	M/s EMM AAR New Delhi	7.77 (Nil) 20.90 (Nil) Gross Cost –	13.51	23.10.17	Feb'18 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ All 1620 T Fabricated structure erected.</li> <li>▪ 33890/35350 T erected structure finished.</li> <li>▪ 727.5/735 T structure fabricated.</li> </ul>	
iv	Balance Structural works including finishing of already erected structures for completion of BOF & CCP Complex in SMS- III – 'Block – II and III of CCP'	M/s EMM AAR New Delhi	9.47 (Nil) 25.00 (Nil) Gross Cost –	17.54	23.10.17	Feb'18 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ 2827/2840 T Fabricated structure erected.</li> <li>▪ 25810/27360 T Structure finished.</li> <li>▪ 1460/1500 T Structure fabricated.</li> </ul>	
v	Balance Structural works, Claddings including finishing of already erected structures for completion of BOF & CCP Complex in SMSIII	M/s Ajeet Enterprise Bhilai	5.76 (Nil) 5.60 (Nil) Gross Cost –	16.41	30.10.17	Feb'18 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ 820/830 T Fabricated structure erected.</li> <li>▪ 1996/2300 T Structure finished.</li> <li>▪ All 1700 T Structure fabricated &amp; 1960 T erected.</li> </ul>	
VI	Steel Structural works, of Beam Blank Storage Yard of SMS- III	M/s S.K.Jain Construction Bhilai	5.36 (Nil) 5.36 (Nil) Gross Cost –	13.00	09.07.19	May'20 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ 2196/2200 T Structure Fabricated.</li> <li>▪ 857/2200 T Fabricated Structure erected.</li> </ul>	
24	Balance Civil work for BOF, CCP o ISSUES: ❖ Scope of RCC revised upward in stages.	Simplex	328.85 - including free steel (Nil)  332.85 - including free steel (Nil)		28.02.13	Apr'14 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ 362929/460566 m<sup>3</sup> (79 %) earthwork completed.</li> <li>▪ 229469/234523 m<sup>3</sup> (97 %) concreting completed.</li> <li>▪ Earlier Contract-</li> <li>▪ Earlier contract was awarded to M/s Ratna Infra Pvt. Ltd. On 14.11.09, but due to poor performance, contract terminated on 15.12.10.</li> <li>- Fresh contract signed with M/s HSCL on 21.02.11 through Limited Tender, but due to poor performance of HSCL, an RPN was issued on 07.03.2012.</li> </ul>	

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			Gross Cost – 392.55	399.41			
25	Piling work in SMS – III	Era Infra	84.92-including Free Steel (nil)  84.76-including Free Steel (nil)  Gross Cost – 84.67	74.64	23.01.10	Oct'10 (Jul'16)	<ul style="list-style-type: none"> <li>▪ All 15450 piles (8287 for BOF &amp; 7163 for CCP) casting completed</li> <li>▪ All 239440 m<sup>3</sup> Earthwork and 3733/5000 m<sup>3</sup> (75%) concreting completed.</li> </ul>
26	Erection, testing and commissioning of Plant & Equipment of BOF & CCP complex. ❖ Resources, particularly manpower, to be augmented.	M/s EPC Construction India Ltd., erstwhile, M/s Essar Projects Ltd.-referred to NCLT	84.81-including free steel (nil)  82.90-including free steel (nil)  Gross Cost – 94.35	79.32	22.02.14	Apr'15 (3 Converter & 3 Casters completed)  (Dec'20)	<ul style="list-style-type: none"> <li>- 29723/34536 T Mech. Eqpt. Erected</li> <li>- 2893/2856 T Elec. Eqpt. Erected</li> <li>- 6147/10495 T Refractory erected</li> <li>- <b>Commissioning Certificate for Converter#2 issued on 06.01.2020 w.e.f. 28.05.19, Converter#1 issued on 16.01.2020 w.e.f. 06.11.19 and Caster CK#1 &amp; CK#2 issued on 16.01.2020 w.e.f. 20.11.19.</b></li> <li>- <b>Commissioning Certificate for Caster CV#1 issued on 16.01.2020 w.e.f. 25.10.19.</b></li> <li>- A communication received by BSP from National Company Law Tribunal (NCLT) on account of which all payments to M/s ESSAR is to be controlled by Interim Resolution Professional (IRP).</li> <li>- BSP and IRP are working together for completing the project.</li> <li>- Earlier Contract dated - 03.11.2011.</li> <li>- M/s Bridge and Roof had erected 400 T against scope of 37,323 T. Contract was short closed as M/s Bridge &amp; Roof stopped work in Feb'13.</li> <li>- Contract on M/s Essar was placed in Feb'14 with a completion period of 14 months.</li> <li>- Balance work of CV#2 shall be descoped from EPCC and alternate agency shall be finalised by (except CV-2 work) dividing scope of work into 4 parts viz. Mechanical, Piping, Electrical &amp; Refractory.</li> <li>- Covid-19 pandemic has affected site work during March &amp; April, 2020.</li> </ul>
27	Erection, Testing & Commissioning of Balance jobs of Gas Recovery system of BOF Complex	M/s Sahicon Engineering & Trading, Bhilai	1.38 (nil)  1.38 (nil)  Gross cost		17.12.19	Mar'20 (Dec'2020)	<ul style="list-style-type: none"> <li>- Alignment of 4 nos Booster fans completed.</li> <li>- Preparatory work for Pressure Test of Discharge line completed &amp; Pressure Test under progress (Main header line testing completed)</li> <li>- Alignment of CO duct from SOS Area to Gas holder area under progress (40% completed).</li> <li>- Piping work for Nitrogen water line is in progress (60% completed). Pressure Test of Gas Line under progress.</li> <li>- Gas Holder Area: <ul style="list-style-type: none"> <li>• Pipe Line no. 3292- 2 out of 6 expansion bellow erection completed.</li> <li>Nitrogen purging line expansion bellows erection in progress.</li> </ul> </li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
							<ul style="list-style-type: none"> <li>Pipe Line no. 3293-ducting completed, Testing in progress.</li> <li>Pipe Line no. 3294- export line testing completed.</li> </ul>
28	Installation of 7 nos. Cranes for BOF & CCP o ISSUES: ❖ Resource to be mobilized for completing balance cranes.	HEC	146.10 (nil)  152.90 (nil)  Gross Cost – 164.84	137.78	29.06.09	Jun'11 (Balance one crane by Oct'2020)	<ul style="list-style-type: none"> <li>3610/3756 T (96%) mech. Equip., all 599 T elect equip and all 561 T DSL supplied.</li> <li>3610/3756 T (96%) mech. eqpt. Erected.</li> <li>574/599 T (96 %) Electrical equipment erected.</li> <li>519/561 T DSL erected.</li> <li>Part PAC for 6 Cranes issued on 19.11.18 w.e.f. 21.08.18.</li> <li><b>6 out of 7 cranes completed; 1 under erection.</b></li> </ul>
29	10 nos. EOT cranes for BOF & CCP o ISSUES: ❖ Resource to be mobilized for completing balance cranes.	HEC	149.55 (nil)  155.10 (nil)  Gross Cost – 170.03	159.85	12.02.11	Feb'13 ( Balance one crane by Oct'2020)	<ul style="list-style-type: none"> <li>All 760 T DSL ordered &amp; supplied.606/760 T DSL erected.</li> <li>3236/3686 T Mech. Eqpt supply &amp; 482/494 T Elect. Eqpt supply completed.</li> <li>3174/3686 T Mech. Eqpt &amp; 438/494 T Electrical equipment erected.</li> <li>No schedule submitted by HEC after MOS meeting Dt. 20.07.17</li> <li>Part PAC for 4 Cranes issued on 19.11.18 w.e.f. 21.08.18.</li> <li>Part PAC for Semi Portal Crane-1 issued on 26.12.18 w.e.f. 06.12.18.</li> <li>Part PAC for 1 crane issued on 05.09.19 w.e.f. 05.09.19.</li> <li>Part PAC for AB-2 &amp; AB-3 (2) cranes has been issued on 16.10.19 w.e.f. 28.08.19.</li> <li>Part PAC issued for Crane AB 1 on 25.01.20 w.e.f. 09.12.19.</li> <li><b>9 out of 10 cranes completed; 1 under erection.</b></li> </ul>
30	9 Nos. EOT cranes and 38 Nos. Repair trolleys for BOF & CCP	Mukand Ltd.	53.75 (nil)  54.80 (nil)  Gross Cost – 61.14	51.94	08.08.12	Feb'14 (Dec'2020)	<ul style="list-style-type: none"> <li>All 704 T mechanical bought out items ordered &amp; 699/704 T (99%) supplied and 617/704 T (85%) erected</li> <li>All 329 T electrical bought out items supplied &amp; 293/329 T (89%) erected.</li> <li><b>Part PAC for 5 nos. EOT cranes of SMS-III issued on 19.10.19 w.e.f. 30.06.18.</b></li> <li><b>Part PAC for 5 Under-slung Cranes (DE-1, EF-1, HI-1, IJ-1 &amp; IJ-2) issued on 16.05.2020 w.e.f. 28.11.2019.</b></li> <li><b>5 out of 9 EOT cranes completed.</b></li> <li><b>Current status (9 cranes):</b> <ul style="list-style-type: none"> <li>5 no. Cranes are under operation.</li> <li>1 no. Crane load test done and to be handed over to operation.</li> <li>1 no. Crane Electrical cabling in progress.</li> <li>1 no. Crane work stopped for 2 years.</li> <li>1 no. Crane shop deferred.</li> </ul> </li> </ul>
31	21 Nos. of Cranes (<100T) for BOF & CCP	Mukand Ltd.	157.55 (nil)  159.70 (nil)		19.06.15	Dec'16 (Dec'2020)	<ul style="list-style-type: none"> <li>RPN issued to Consortium of M/s KG Cranes, Korea and M/s Impression System &amp; Engg. Pvt. Ltd., Pune on 25.08.14.</li> <li>All 3484 T Mech. equipment &amp; all 270 T elect equip ordered.</li> <li>3459/3484 T Mech. equipment &amp; all 270 T elect equip supplied.</li> <li>1834/3484 T Mech. equipment &amp; 215/270 T elect equip erected.</li> <li><b>Part PAC for 5 Cranes issued on 18.06.18 w.e.f. 17.05.18.</b></li> <li><b>Part PAC for 6 Cranes issued on 26.12.18 w.e.f. 17.12.18.</b></li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			Gross Cost – 178.24	153.85			<ul style="list-style-type: none"> <li>▪ Part PAC for 1 Crane issued w.e.f. 21.06.2019.</li> <li>▪ Part PAC for 1 Crane (LM-1) issued on 16.05.2020 w.e.f. 14.03.2020.</li> <li>▪ Current status (21 cranes):               <ul style="list-style-type: none"> <li>○ 14 no. Cranes are under operation.</li> <li>○ 2 no. Cranes are under Electrical testing.</li> <li>○ 2 no. Cranes major Mechanical erection completed.</li> <li>○ 3 no. Cranes erection front not available.</li> </ul> </li> </ul>
32	Secondary Refining Units for SMS III Facilities : ARS:3 nos., LF: 3 nos., RH- degasser: 1 no.	Wisdri, China / Trafalgar	205.56 (USD 29,520,000)  250.20 (USD 29,520,000)	279.62	08.03.10	Sep'12 (Aug'19)	<ul style="list-style-type: none"> <li>▪ Part PAC for LF-1 issued on 10.04.18 w.e.f. 06.04.18.</li> <li>▪ Part PAC for ARS-1 issued on 13.12.18 w.e.f. 28.08.18.</li> <li>▪ Part PAC for RH issued on 08.10.18 w.e.f. 08.10.18.</li> <li>▪ Part PAC for LF-2 issued on 08.03.19 w.e.f. 04.02.19.</li> <li>▪ PAC issued for Part Facilities of Production Unit of ARS-3 on 31.05.19. ARS-3: Cold trial has been completed on 20.05.19 &amp; handed over to operations.</li> <li>▪ Hot Trial of Ladle Furnace (LF-3) successfully done on 20.08.19.</li> <li>▪ PAC for LF-3 issued on 27.08.19 w.e.f. 20.08.19.</li> <li>▪ PAC for complete package issued on 20.08.19.</li> <li>▪ Commissioning is linked to arrival of foreign experts from China.</li> </ul>
33	External Water system for BOF & CCP o ISSUES: ❖ RPN issued to M/s Aireff Detox on 08.02.16. ❖ Contract terminated and BGs en-cashed on 03.03.16.	AireffDetox / Himgiri CoolingTower/ Model infra	113.49 (nil)  -83.70 (nil)  Gross Cost – -78.81	27.75	29.06.12	Sep'13 (Contract terminated on 03.03.16)  (Mar'2020) (Water provided for startup of SMS-III)	<ul style="list-style-type: none"> <li>▪ 78412/ 104000 m<sup>3</sup> earthwork completed.</li> <li>▪ 9453/ 21235 m<sup>3</sup> (44%) concreting completed.</li> <li>▪ 1970/3000 t Mech. Eqpt. Ordered &amp; 175/3000 t supplied.</li> <li>▪ 450/530 T Elect. Eqpt. Ordered &amp; 20 T supplied.</li> <li>• Balance work (after Contract termination) has been repackaged into 5 packages including procurement package which has 11 nos. of POs</li> <li>• All 5 packages finalized and order has been placed. Work of all packages has been completed.</li> </ul>
Following non-turnkey/ procurement contracts awarded (against RPN action) for balance works							
I	Balance Civil works of Essential Facilities under External Water Supply System for SMS-III	M. Mohan, Bhilai	16.07 (nil)  16.07 (nil)  Gross Cost –	15.08	25.04.16	Oct'16 (Apr'18)	<ul style="list-style-type: none"> <li>▪ All 2100 m<sup>3</sup> Earthwork completed.</li> <li>▪ All 6628 m<sup>3</sup> Concreting completed.</li> <li>▪ All work completed on 24.04.18.</li> </ul>
II	Civil Works of WTP-2 under External Water Supply System for SMS-III	HSCL	9.17 (nil)  9.17 (nil)		18.06.16	Dec'16 (May'19)	<ul style="list-style-type: none"> <li>▪ All 24000 m<sup>3</sup> Earthwork completed.</li> <li>▪ All 5200 m<sup>3</sup> Concreting completed.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status	BSP
			Gross Cost –	6.15				
III	Structural Works of Overhead Tank, including tank and supporting structure under External Water Supply System for SMS-III	Sanmathi Enterprises, Bhilai	5.16 (nil)  5.16 (nil)  Gross Cost –	4.62	02.06.16	Dec'16 <b>(Jun'17)</b>	<ul style="list-style-type: none"> <li>▪ All 400 T Building Structure Fabricates &amp; erected.</li> <li>▪ All 200 T Technical Structure Fabricated &amp; 200 T erected.</li> </ul>	
IV	Balance work	M/s L&T	242.14 (nil)  192.20 (nil)  Gross Cost – 209.94	217.77	15.12.16	Jan'18 <b>(Mar'20)</b>	<ul style="list-style-type: none"> <li>▪ All 69542 m<sup>3</sup> Earth work &amp; all 19000 m<sup>3</sup> Concreting completed.</li> <li>▪ All 1800 T structure fabricated and erected.</li> <li>▪ All 45000 T Technical structure fabricated &amp; all 43000 T erected.</li> <li>▪ All 1950 T Mechanical equipment supplied &amp; all 2050 T erected.</li> <li>▪ Part PAC issued on 10.07.18 w.e.f. 22.06.18.</li> <li>▪ <b>PAC issued on 14.12.18.</b></li> <li>▪ <b>Commissioning certificate issued on 27.03.2020 w.e.f. 06.07.2019.</b></li> <li>▪ <b>PG test done.</b></li> </ul>	
V	Procurement packages o Issues: ❖ RPN Action has been initiated for Procurement of pumps		28.80 (nil)  28.80 (nil)  Gross Cost –	25.99			<ul style="list-style-type: none"> <li>▪ All 11 nos. Purchase order issued.</li> <li>▪ Subsequently RPN initiated against M/s Best &amp; Crompton for procurement of pumps; LTE issued for 3 parties.</li> <li>▪ PO placed to M/s WPIL, Kolkata for 48/56 pumps; all pumps were supplied.</li> <li>▪ Order of 5 pumps placed to M/s Mather &amp; Platt; all pumps were supplied.</li> <li>▪ For balance 3 pumps, order placed to Techno pumps &amp; Projects, Thane; all pumps were supplied.</li> </ul>	
34	Air conditioning and ventilation system for BOF & CCP complex. o ISSUES: ❖ Balance supplies to be expedited.	Voltas Ltd.	39.92 (nil)  41.30 (nil)  Gross Cost – 46.66	35.78	31.08.12	Mar'14 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ All 885 T Mech. Eqpt. Ordered, all 885 t supplied &amp; 565/885 t erected.</li> <li>▪ All 175 T Elect. Eqpt ordered, 150/175 t supplied &amp; 109/175 t erected.</li> </ul>	
35	Fire Protection System for BOF & CCP o ISSUES: ❖ Balance supplies and erection to be expedited.	Unitech Machines Ltd.	11.64 (nil)  10.90 (nil)		02.04.13	Apr'14 (RPN issued)	<ul style="list-style-type: none"> <li>▪ 630/696.7 T mech. Eqpt supplied &amp; 510/696.7 T erected.</li> <li>▪ Supply of electrical equipment not started yet.</li> <li>▪ RPN issued on 16.07.2019.</li> <li>▪ Order placed on M/s Nohmi Bosai (I) on 21/08/2020</li> </ul>	

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			Gross Cost – 11.69	5.43			
36	Pneumatic Sample Transport System for BOF & CPP Complex	Kerry Engineering	2.60 (nil)  2.50 (nil) Gross Cost – 2.50	1.55	25.06.13	Apr'14 (Dec'2020)	<ul style="list-style-type: none"> <li>Change order work for six line has been completed and handed for operation in Jan'2018.</li> <li>SMS# 3 Lab building has been relocated and new route is under finalization.</li> <li>TS and cost estimate for change order awaited from MECON.</li> </ul>
37	Installation of Lime Calcination & Dolomite Plant at RMP-III	Shapoorji Pallonji	251.16 (Euro 3,017,000)  266.50 (Euro 3,017,000)  Gross Cost – 282.19	240.71	09.12.09	Mar'12  4 out of 5 Kilns are in operation. (Kiln-1 <b>Jun'18</b> , Kiln-2 <b>Mar'19</b> , Kiln-3 <b>Nov'19</b> ; Kiln- 4 <b>Feb'20</b> & Kiln-5 by Dec'20)	<ul style="list-style-type: none"> <li>All 792 piles have been cast. All 108100 m<sup>3</sup> earthwork and 21195/21195 m<sup>3</sup> concreting completed.</li> <li>All 2750 Bldg Structure &amp; 8495/ 8495 T Techno structure Supplied. 11243/11245 T structures erected.</li> <li>All 1000 T Mech. eqpt (Indg.) &amp; all 21 T mechanical eqpt. (imp.) Ordered. All 2047 t mech. equip (Indg.) supplied. 2066/2068 t mech. eqpt erected.</li> <li>All 1000 T electrical equipment (Indg.) &amp; all 1.5 T electrical eqpt. (Imp.) Ordered. 999.5/1000.5 t elect. equip (Indg.) supplied &amp; 999.5/1001.5 T erected.</li> <li>All 4200 T refractory supplied &amp; erected.</li> <li>Part PAC for Kiln #1 issued on 23.06.18 w.e.f. 11.06.18.</li> <li>Part PAC for Kiln #2 issued on 25.03.19 w.e.f. 19.03.19.</li> <li>Kiln 2- Hot trial (Gas firing) started on 19.03.19. Supply of calcined&amp; burnt lime from Kiln-2 to SMS # 2 &amp; 3 started.</li> <li>PG Test completed for Kiln 1&amp;2 in Jun'19.</li> <li>Kiln -3; Hot trial (Gas firing) has been started in 2<sup>nd</sup> week of Nov'19.</li> <li>PAC for Kiln-3 issued on 29.11.19 w.e.f. 16.11.19.</li> <li>Kiln – 4; Hot trial started on 26.02.2020.</li> <li>Kiln – 5; Automation work and commissioning work is under progress.</li> <li><b>Foreign experts not coming due to Corona spread.</b></li> </ul>
38	Interplant pipe conveyor from RMP–III to RMP– II	FL Smidth	58.12 (nil)  62.20 (nil) Gross Cost – 67.03	54.96	04.02.11	May'12 ( <b>Sep'16</b> )	<ul style="list-style-type: none"> <li>All 9700 m<sup>3</sup> earthwork and 5100 m<sup>3</sup> concreting completed.</li> <li>All 1600 T building structures supplied and all 1655 T erected.</li> <li>All 558 T Mech. Equip supplied &amp; erected.</li> <li>All 200 T Elec. Equip supplied &amp; erected.</li> <li><b>PAC issued on 23.07.16, w.e.f. 07.07.16.</b></li> </ul>
39	Up-gradation of Plate Mill		284.31 (nil)  326.69				



Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status	BSP
			(nil) Gross Cost – 371.77	317.09				
I	Cooling Beds, Pilers, etc.	Vitkovice Heavy Machinery, Chekoslovakia / Beekay	176.54 (Euro 8,890,000)  203.01 (Euro 8,890,000)  Gross Cost – 231.39	196.98	24.07.08	Jan'10 <b>(Mar'10)</b>	▪ Completed	
II	Installation of Guillotine Shear	Danieli Wean United, Italy/ Empire Industrial Equipment, Kolkata	63.90 (Euro 8,200,000)  73.48 (Euro 8,200,000)  Gross Cost – 84.25	71.85	23.08.08	Aug'10 <b>(Oct'10)</b>	▪ Completed	
III	CNC Roll Grinding Machine	World Machining Works, Romania/ Maco Corpn	30.09 Euro 3,550,000) 34.60 Euro 3,550,000)  Gross Cost – 39.35	35.64	26.7.08	Nov'09 <b>(May'10)</b>	▪ Completed	
IV	40 T EOT Crane & 17 T Semi Portal Crane	Anupam Industries	6.91 (nil)  7.95 (nil)  Gross Cost – 8.88	6.86	13.8.08	Nov'09 <b>(Apr'10)</b>	▪ Completed	
V	Installation of Plate Edge Marking M/c & Automatic Length Measuring System	M/s Shanghai Hinner, China/ Nireco, Japan & Deepika, India	6.87 (Euro 930,000)  7.90 (Euro 930,000)		02.05.09	Nov'10 <b>(Apr'14)</b>	<ul style="list-style-type: none"> <li>▪ Commissioning test of both plate edge marking machines completed on 15.06.12.</li> <li>▪ All 14.4 T Mech. eqpt. erected</li> <li>▪ All 5.98 T elect. Eqpt. Erected.</li> </ul>	

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status	BSP
			Gross Cost – 7.90	5.77				
40	New normalizing furnace at plate mill	In-house	32.23 (nil) 37.06 (nil) Gross Cost – 39.19	25.17	-	May'10 (Mar'10)	Completed	
41	Universal Rail Mill Capacity-1.2 MTPA	SMS Meer / ABB	1177.40 (Euro 107,970,000) 1443.30 (Euro 107,970,000) Gross Cost – 1562.69	1396.38	23.08.10	Jun'13, 1 <sup>st</sup> Rail- Apr'13 (Nov'16)	<ul style="list-style-type: none"> <li>Hon'ble Union Minister of Steel, inaugurated URM Complex and flagged off rake of 260m long rails (welded from URM rails) on 23.01.17 to Indian Railway.</li> <li>Rail production till Mar'17- 10,741 T.</li> <li>Rail production during 2017-2018- 2,43,933 T</li> <li>Rail production during 2018-2019-4,34,391 T</li> <li>Rail production during 2019-2020-6,04,396 T (Prime: 5,38,190 T)</li> <li>Rail production during 2020-2021 (Till Sep'20)-3,25,253 T</li> <li>333 nos. blooms were rolled on 22.01.20, which is the highest ever daily production from URM in a day (surpassing previous best of 318 blooms rolling on 09.12.19).</li> <li>Highest ever monthly production of rails (rolling- 64,949 T, Prime-60,317 T) from URM achieved in Aug'20.</li> <li>Part PAC (from Cold Charging grid up to Cooling Bed) issued on 26.10.16 w.e.f. 13.08.16.</li> <li>PAC issued on 12.04.17 w.e.f. 11.03.17.</li> <li>Commissioning certificate issued on 02.09.2020 w.e.f. Sep'2018.</li> </ul>	
42	Civil work for URM	HSCCL	289.51 - Inclusive free issue of steel (nil) 339.81 - Inclusive free issue of steel (nil) Gross Cost – 329.81	271.15	15.09.10	Mar'12 (Nov'16)	<ul style="list-style-type: none"> <li>Part PAC (Civil works pertaining to Rail Welding line area) issued on 04.03.17 w.e.f. 31.03.16.</li> <li>All work has been completed by 30.09.2019.</li> <li>Commissioning certificate issued.</li> </ul>	
43	Structural work for URM	HSCCL	200.02 - Inclusive of free issue of steel		10.12.10	Aug'12 (Nov'16)	<ul style="list-style-type: none"> <li>All work completed on 31.05.18.</li> <li>Part PAC issued (from Block 1 to 5) on 28.12.16 w.e.f. 25.11.16.</li> </ul>	

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			(nil)  201.34 - Inclusive of free issue of steel (nil)  Gross Cost – 201.3402	197.16			<ul style="list-style-type: none"> <li>▪ Part PAC-2 issued (from Block 1 to 7) on 17.02.18 w.e.f. 17.02.18.</li> <li>▪ All work completed by 31.05.18.</li> <li>▪ Commissioning Certificate Issued w.e.f. 31.05.2018.</li> <li>▪ Final Acceptance Certificate Issued.</li> <li>▪ Contract closed.</li> </ul>
44	Installation of reheating furnace for URM	Gillanders Arbuthnot (MICCO) & Bricmont (now Andritz)	75.81 (USD 5,700,000)  85.20 (USD 5,700,000)  Gross Cost – 93.03	82.99	13.07.11	Apr'13 (Mar'16)	<ul style="list-style-type: none"> <li>▪ All 171 T Mech. Equip (Imp) &amp; 1799/1800 T mech. eqpt. (indig.) Supplied. Mech. Equip 1970/1971 T (99%) erected.</li> <li>▪ All 175 T Elect Equip supplied &amp; erected.</li> <li>▪ All 1845 T Refractory supplied &amp; erected.</li> <li>▪ PAC issued on 29.04.16 w.e.f. 24.03.16.</li> <li>▪ Commissioning conducted successfully on 07.09.2018, CC not issued.</li> <li>▪ Commissioning certificate issued on 29.08.2020 w.e.f. 08.09.2018.</li> </ul>
45	Rail welding lines for long rails Capacity-1.1 MTPA	Railtech International/ Maco Corpn	263.16 (Euro 17,440,000)  323.70 (Euro 17,440,000)  Gross Cost – 350.17	325.77	18.02.11	Oct'12 (Mar'16)	<ul style="list-style-type: none"> <li>▪ PAC issued on 11.05.16 w.e.f. 12.04.16.</li> <li>▪ Rail Welding Complex has been dedicated to the Nation by the Hon'ble Minister of Steel &amp; Mines on 04.07.16.</li> <li>▪ Commissioning Certificate issued on 04.05.17 w.e.f. 22.04.17.</li> <li>▪ FAC issued on 27.03.2020 w.e.f. 28.01.2020.</li> <li>▪ Contract closed.</li> </ul>
46	CNC Roll Turning Lathes for URM	Hankook/ Sanmathi	22.84 (USD 34,11,385)  22.30  Gross Cost – 22.30	25.95	21.06.13	Jun'14 (Mar'16)	<ul style="list-style-type: none"> <li>▪ Completed</li> <li>▪ PAC issued on 06.06.16 w.e.f. 13.02.16.</li> <li>▪ Commissioning certificate issued.</li> <li>▪ PG test not successful.</li> </ul>
47	Fire Protection System for URM & BRM	M/s Thermosystems Pvt. Ltd., Hyderabad	15.18 (nil)  15.18 (nil)		08.02.17	Feb'18 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ RPN issued to M/s Agnice Fire Protection Ltd. on 01.12.14.</li> <li>▪ Fresh tender issued and contract awarded to M/s Thermosystems Pvt. Ltd., Hyderabad.</li> <li>▪ Erection of eqpts. started on 13.03.18. Erection of eqpts. in BRM area started on 05.04.18.</li> <li>▪ 1023/1025 T Mech. Eqpt. Supplied &amp; 972/1025 T Mech. Eqpt. erected.</li> <li>▪ All 25.3 T Electrical Eqpt. Supplied &amp; 22.5/25.3 T Electrical Eqpt. erected.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			Gross Cost – 20.58	22.41			
48	Illumination System for URM, BRM & Rail Welding Line	Transrect Industries	11.60 (nil)  11.60 (nil)  Gross Cost – 11.10	11.04	21.05.13	Feb'14 <b>(Mar'2020)</b>	<ul style="list-style-type: none"> <li>520/520 T Elect. Eqpt. (Indg.) supplied &amp; 519/ 520 T erected.</li> <li>PAC issued on 09.03.2020 w.e.f. 07.02.2020.</li> <li>PAC issued on 09.03.2020 w.e.f. 07.02.2020.</li> </ul>
49	Air Conditioning System & Ventilation System for BRM, URM & Rail Welding Line	Sterling & Wilson Ltd.	47.92 (nil)  50.10 (nil)  Gross Cost – 54.52	43.55	25.06.13	Oct'14 (Dec'2020)	<ul style="list-style-type: none"> <li>All 969 T Mech. equip (Indg.) ordered, all 969 T Mech. equip (Indg.) supplied and 968/969 T erected.</li> <li>All 316 T Elec. equip (Indg.) ordered, 315/316 T supplied and 315/316 T erected.</li> <li>All 3 Chiller Units of BRM charged.</li> <li>Part PAC for works related to RWL area issued on 06.08.16 w.e.f. 15.07.16.</li> <li>Part PAC for URM facilities issued on 24.11.18 w.e.f. 10.05.17 &amp; Part PAC for BRM facilities issued on 24.11.18 w.e.f. 19.05.18.</li> </ul>
50	Bar & Rod Mill (0.9 Mtpa)	Danieli & C / Beekay	406.09 (Euro 25,250,000)  417.60 (Euro 25,250,000)  Gross Cost – 455.49	436.93	25.08.10	Aug'12 <b>(Jul'19)</b>	<ul style="list-style-type: none"> <li>Bar mill trial done in Mar'17.</li> <li>PAC issued for BRM on 14.09.18 w.e.f. 31.08.18.</li> <li>Mill is in regular operation and commercial production has also commenced.</li> <li><b>Commissioning of BRM done during 24.06.19 to 29.06.19.</b></li> <li>Around 3300 T TMT &amp; Wire rod were rolled during the Commissioning period against target production of 9300 T.</li> <li>BSP has taken over the mill for commercial production with effect from 05.07.19.</li> <li><b>Repeat test of Commissioning of mill was held during 08.09.2020 to 15.09.2020. Target production of 9,300 T (1860 T/day) through TMT/ Wire rod during commissioning period has been achieved and commissioning is declared successful.</b></li> <li><b>Commissioning certificate issued on 30.09.2020 w.e.f. 15.09.2020.</b></li> <li><b>Production in year 2019-20: 1,82,621 T.</b></li> <li><b>Production in year 2020-21 (Till Sep'20): 1,25,176 T</b></li> </ul>
51	Civil work for BRM	HSCL	126.16 - Inclusive of free issue of steel (nil)  130.75 - Inclusive of free issue of steel (nil)		30.12.10	Aug'12 <b>(Nov'16)</b>	<ul style="list-style-type: none"> <li><b>Completed.</b></li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status	BSP
			Gross Cost – 136.64	125.72				
52a	Structural work for BRM	HSCL	54.26 -Inclusive of free issue of steel (nil)  54.26 -Inclusive of free issue of steel (nil)	53.44	16.09.10	May'12 (Nov'16)	<ul style="list-style-type: none"> <li>▪ All 8500 T fabrication (Sch/likely – Dec'11/ Jul'14) completed.</li> <li>▪ All 8500 T erection (Sch / Likely – Jan'12 / Mar'17) completed.</li> </ul>	
52b	Addl. Structural work for BRM	HSCL	47.11 -Inclusive of free issue of steel (nil)  47.11 -Inclusive of free issue of steel (nil)	47.64	24.11.12	May'13 (Nov'16)	<ul style="list-style-type: none"> <li>▪ 7308/7360 T structure fabricated &amp; 7256/7360 T erected.</li> <li>▪ Assembly of all 242 Crane Girders &amp; 190 columns has been completed.</li> <li>▪ Cum. 188 Columns &amp; 239 crane girders erected.</li> </ul>	
53	Reheating furnace for BRM	Fives Stein / Beekay	54.23 (Euro 2,130,000)  59.20 (Euro 2,130,000)	61.16	09.02.11	Nov'12 (Jan'17)	<ul style="list-style-type: none"> <li>▪ 1043/1048 T (99%) Mech. equip (Indg.) and all 62 T Mech. Equip (Imp) supplied &amp; 1105/1110 T (99%) erected.</li> <li>▪ All 195 T Elec. Equip (Indg.) ordered, 194/195 T (99%) supplied and 201/202 T (98%) erected.</li> <li>▪ All 190 T refractory (Imp.) and 1090 T refractory (Indg.) supplied &amp; all 1280 T erected.</li> <li>▪ <b>PAC issued on 11.03.17 w.e.f. 28.02.17.</b></li> <li>▪ <b>Commissioning test/ trial of furnace taken during 24.06.19 – 29.06.19.</b></li> <li>▪ <b>Commissioning Certificate issued on 15.05.2020 w.e.f 29.06.2019.</b></li> </ul>	
54	Hoisting and Handling facilities for BRM & URM  o ISSUES: ❖ Progress of supply & erection of balance cranes is poor.	HEC	150.42 (nil)  159.40 (nil)		21.01.12	Jul'13 (All cranes completed in May'20)	<ul style="list-style-type: none"> <li>▪ 4634 T mech. eqpt. (Mfg) and all 464 T mech. eqpt (bought-out) ordered. 4634 T mech. eqpt supplied &amp; 4634 T erected.</li> <li>▪ All 1696 T elect eqpt. (bought out) ordered, 1696 T supplied &amp; 1688 erected.</li> <li>▪ Scope includes 39 nos. EOT cranes, 42 nos. hoists / maintenance trolleys. TILL date, <ul style="list-style-type: none"> <li>o 38 / 39 nos. EOT cranes have been made operational (22 in URM and 16 in</li> </ul> </li> </ul>	

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			Gross Cost – 174.31	110.34			BRM). 1 EOT crane of BRM de-scoped. <ul style="list-style-type: none"> <li>o Erection of all 42 nos. hoists has been completed (21 in URM and 21 in BRM).</li> </ul> <b>▪ PAC issued for 21/ 22 Cranes of URM and 12 /16 cranes of BRM.</b>
55	External water system for Mills & fire water pump house <ul style="list-style-type: none"> <li>o ISSUES:  <ul style="list-style-type: none"> <li>❖ RPN issued to M/s MBECL on 12.04.16.</li> </ul> </li> </ul>	McNally Bharat	114.30 (nil)	67.49	22.09.12	Dec'13 (Contract terminated on 20.05.16)  Oct'2020 (Water provided in all circuits of URM & BRM)	<ul style="list-style-type: none"> <li>▪ 84/107 BE drawings &amp; 290/413 DE drawings under approval category submitted.</li> <li>▪ 75449/87420 m<sup>3</sup> (86%) earthwork completed.</li> <li>▪ 16218/ 19785 m<sup>3</sup> (82%) concreting completed.</li> <li>▪ 250/520 T Building structure fabricated &amp; 240/520 T erected.</li> <li>▪ 620/830 T Technical structure fabricated &amp; 427/830 T erected.</li> <li>▪ 340/670 T (51%) Mech. equip ordered, 380/670 T (57%) Mech. equip supplied &amp; 230/670 T erected, 505/905 T (55%) Elec. equip ordered and 505/905 T (56%) Elec. equipment supplied &amp; 250/905 T erected.</li> <li>▪ Total 7 nos. of packages are envisaged – civil &amp; structural works (3 packages)/ mech. equipment erection / elect. Equipment erection / equipment procurement (includes 12 nos. POs) /other balance works.</li> <li>▪ All 7 packages finalized and orders placed; turnkey package of balance works finalized in Jul'17 and order placed on M/s TPL Work completed in 6 packages and under progress in balance packages.</li> </ul>
Following non-turnkey/ procurement contracts awarded (against RPN action) for balance works							
I	Balance Civil Works for completion of WTP-5 at BRM under external water system for Mills	Sudhanshu Brothers, Bhilai	2.23 (Nil)  2.23 (Nil)  Gross Cost – 2.78	1.27	24.06.16	Oct'16 (Jan'17)	<ul style="list-style-type: none"> <li>▪ All 960 m<sup>3</sup> Concreting completed</li> <li>▪ WTP-5 completed.</li> </ul>
II	Balance Civil Works and Structural works for completion of all WTPs in URM and BRM (except WTP-5 for BRM) and cable tunnel & pipe cum cable gallery at BRM	HSCL	7.20 (Nil)  7.20 (Nil)  Gross Cost – 8.54	6.23	12.08.16	Dec'16 (Apr'18)	<ul style="list-style-type: none"> <li>▪ All 2650 m<sup>3</sup> earthwork completed.</li> <li>▪ All 2267 m<sup>3</sup> concreting completed.</li> <li>▪ All 200 T structural fabricated &amp; erected.</li> <li>▪ WTP-7 cooling tower connection wall completed.</li> </ul>
III	Erection, testing & commissioning of balance electrics for external water system for Mills	Shambhu Singh Engineers Pvt. Ltd.	0.82 (Nil)  0.82 (Nil)		20.07.16	Oct'16 (Aug'18)	<ul style="list-style-type: none"> <li>▪ All 22 T structural fabricated &amp; erected.</li> <li>▪ All 8070 RM cable tray laying completed.</li> <li>▪ All 44000 RM cable laying completed.</li> <li>▪ All work completed on 31.08.18.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			Gross Cost – 0.92	0.55			
IV	Erection, Testing & Commissioning of Balance Mechanical Plant & Equipment and piping Works	M/s GIMEX India, Bhilai,	1.03 (Nil)  1.03 (Nil)  Gross Cost –	0.65	08.09.16	Mar'17 (Apr'18)	<ul style="list-style-type: none"> <li>▪ All 403 T Mechanical equipment erected.</li> <li>▪ All 76 T Building Structure fabricated and erected.</li> <li>▪ All 6310 T Technical structure erected.</li> </ul>
V	Civil works of Backwash Filter Overhead tank of WTP-3 (URM)	M/s SPS Const. & Engg., Bhilai	1.57 (Nil)  1.57 (Nil)  Gross Cost – 1.91	0.90	03.11.16	Aug'17 (Sep'18)	<ul style="list-style-type: none"> <li>▪ All 400 m<sup>3</sup> Earth work completed.</li> <li>▪ All 560 m<sup>3</sup> concreting completed.</li> </ul>
VI	Procurement packages	-	19.96 (nil)  19.96 (nil)  Gross Cost – 22.55	18.43			<ul style="list-style-type: none"> <li>▪ All 11 nos. Purchase order issued.</li> </ul>
VII	Balance Work of External Water Supply to Mills & Fire Water Pump Houses	Tata Projects Ltd, Secunderabad	153.50 (nil)  153.50 (nil)  Gross Cost-	152.89	14.09.17	Sep'18 (Dec'2020)	<ul style="list-style-type: none"> <li>▪ All 61800 m<sup>3</sup> earthwork and all 17402 m<sup>3</sup> concreting completed.</li> <li>▪ 376/640 T structure fabricated &amp; 367/640 T erected.</li> <li>▪ 23880/24000 T Technical structure erected.</li> <li>▪ 557/560TEquipment supplied &amp; 557/560 T erected.</li> <li>▪ Part PAC for URM &amp; BRM work issued w.e.f.18.11.2019. Commissioning and handing over activities etc. are in progress.</li> <li>▪ <b>Part PAC for 05 nos. Fire Water Pump House (FWPH) issued on 18.08.2020 w.e.f. 01.06.2020.</b></li> </ul>
56	New centralized Compressed Air Station (CAS) – 4	BOC	137.97 (Euro 720,000)  135.90 (Euro 720,000)		21.4.08	Apr'10 (Sep'10)	<ul style="list-style-type: none"> <li>▪ Completed.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			Gross Cost – 155.76	149.68			
57	MSDS-VII	Alstom	216.25 (Swiss Franc 2,732,400)  225.00 (Swiss Franc 2,732,400)  Gross Cost – 247.56	205.04	25.09.08	Sep'10 (Dec'15)  Sep'12 (Dec'15)	<p><b>For original package</b></p> <ul style="list-style-type: none"> <li>All Electrical (2425 T) &amp; Mechanical (580 T) Equipment ordering completed.</li> <li>All 2425 T electrical equip supplied &amp; 2409/2425 T (99%) erected.</li> <li>All 580 T Mech. equip. supplied &amp; 579/580 T erected.</li> </ul> <p><b>For Change order</b></p> <ul style="list-style-type: none"> <li>All 850 m<sup>3</sup> Earth work and all 640 m<sup>3</sup> concreting completed.</li> <li>All 7.5 T Mech. Equip ordered, 7 T (83%) supplied &amp; 7 T (83%) erected.</li> <li>All 40.7 T Elec. Equip ordered and 39 T (96%) supplied &amp; 39 T (96%) erected.</li> <li>PAC issued on 19.03.15 w.e.f 03.02.15.</li> </ul>
58	Construction of Flyovers & road network o ISSUES: ❖ Overall progress is slow.	S P Singla	74.89 (nil)  77.60 (nil)  Gross Cost – 77.60	33.94	14.07.10	RPN case	<ul style="list-style-type: none"> <li>127/344 (37%) piles cast.</li> <li>17510/26000 m<sup>3</sup> (63%) concreting and 92210/260000 m<sup>3</sup> (33%) earthwork completed.</li> <li>40575/65000 m<sup>2</sup> (62%) WBM road and 3850/4450 (52%) RM road carpeting completed.</li> <li>13/33.8 T (38%) electrical equip ordered, 13/33.8 T (38%) supplied and 7/33.9 (21%) T erected.</li> <li>10/28 (36%) T structural fabricated and 8/28 (29%) T erected.</li> </ul>
59	Inter plant fuel & industrial gas pipeline for all units	Tata Projects Ltd.	147.16 (nil)  151.90 (nil)  Gross Cost – 160.29	154.56	22.01.11	Apr'12 (Aug'18, Gas provided to all units)	<ul style="list-style-type: none"> <li>PAC issued on 04.06.18 w.e.f. 19.05.18.</li> <li><b>Commissioning certificate issued on 31.03.2020 w.e.f. 06.07.2019.</b></li> </ul>
60	Balance Railway Track Work for Plant Internal Yards o ISSUES: ❖ RPN issued to ISC Projects (P) Ltd. And contract terminated on 17.10.15 and balance work awarded to M/s Jhajharia & Arcon.	Jhajharia - Arcon	81.21 – Including free issue of steel  213.00 – Including free issue of steel  Gross Cost – 218.38	62.36	17.10.15	Jul'16 (Jun'19)	<p>M/s ISC projects:</p> <ul style="list-style-type: none"> <li>11761/13500 (83%) RM dismantling of existing track completed.</li> <li>147835/150000 m<sup>3</sup> (98%) earthwork and 5458/5800 m<sup>3</sup> (94%) concreting completed.</li> <li>61000/79000 m<sup>3</sup> (77%) ballast supplied.</li> <li>15500/37300 (42%) RM railway track laid.</li> <li><b>RPN issued to ISC Projects (P) Ltd. and contract terminated on 17.10.15.</b></li> </ul> <p>M/s Jhajharia &amp; Arcon projects: Cumulative status:</p> <ul style="list-style-type: none"> <li>All 197148 m<sup>3</sup> earthwork completed.</li> <li>All 25915 m<sup>3</sup> ballast supplied.</li> </ul>



Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
							<ul style="list-style-type: none"> <li>▪ All 10100 TM Track dismantling completed.</li> <li>▪ Track laying of 19950 TM completed.</li> <li>▪ <b>All the facility provided.</b></li> <li>▪ <b>Commissioning certificate issued w.e.f. 11.06.19.</b></li> </ul>
61	Construction of railway siding and P-way linking of peripheral yard (095-A)	Jhajharia - Arcon	80.73 including free issue of steel (nil)  49.00 including free issue of steel (nil)  Gross Cost – 50.79	51.40	29.06.11	Feb'13 (Oct'2020)	<ul style="list-style-type: none"> <li>▪ All 1080000 m<sup>3</sup> earthwork and 4150/6130 m<sup>3</sup> (67%) concreting completed.</li> <li>▪ All 75230 m<sup>3</sup> ballast supplied.</li> <li>▪ 2330/8000 (29%) RM existing track dismantled.</li> <li>▪ 34000/41500 (82%) RM railway track laid.</li> <li>▪ Work completed at all available fronts.</li> <li>▪ Party has requested for short-closure of contract due to non-availability of balance fronts. Under discussion with consultant RITES and Projects-Commercial for further processing.</li> </ul>
62	Procurement of 13 nos. WDS-6 AD locomotives	DLW (under MOU)	27.53 + 75.87 (nil)  27.53 + 75.87 (nil)  Gross Cost – 30.27+83.33	30.27+79.04	14.06.11	Dec'12 (Jan'13)	<ul style="list-style-type: none"> <li>▪ Supply of all locos completed</li> </ul>
63	Construction of under bridge by box pushing below railway track	Ghai Entp (6.23)	6.52 (nil)  6.52 (nil)  Gross Cost – 7.95	6.92	07.02.12	Feb'13 (Feb'14)	<ul style="list-style-type: none"> <li>▪ All 2000 m<sup>3</sup> earthwork competed</li> <li>▪ All 2000 m<sup>3</sup> concreting completed</li> <li>▪ All 59 T strl. fabrication completed</li> <li>▪ All 64 RM Box pushing completed.</li> <li>▪ <b>Contract closed.</b></li> </ul>
64	Installation of HT distributed sub stations	ABB	341.64 (nil)  383.30 (nil)  Gross Cost – 405.87	372.32	02.09.11	May'13 (Mar'18)	<ul style="list-style-type: none"> <li>▪ PAC issued on 18.01.18 w.e.f. 27.12.17.</li> <li>▪ PAC (Part facility) for HT SS No. 43 &amp; 48 issued on 26.12.14 w.e.f. 01.10.14.</li> <li>▪ PAC (Part facility) for HT SS No. 45, 47, 56,57, 60, 64, 68 &amp; 70 issued on 18.03.16 w.e.f. 20.01.16.</li> <li>▪ Preliminary Acceptance Certificate for Part Facility including change order of the project issued on 31.03.17 except Fire detection &amp; alarm system and lift.</li> <li>▪ Part Commissioning certificate for HTSS 43, 56, 57, 64, 68 &amp; 70 issued on 11.08.18 w.e.f. 30.03.18.</li> <li>▪ Commissioning certificate issued on 07.10.19 w.e.f. 19.08.19.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
65	Augmentation of makeup water and drinking water system o ISSUES: ❖ RPN issued to M/s Vishwa Infra on 05.03.16,	Vishwa Infrastructure & Service and V Bogeshwar Rao	90.12 (nil)  19.00 (nil)  Gross Cost – 24.77	53.54	01.10.11	Dec'12 (Contract terminated on 12.04.16)  (Dec'2020)	<ul style="list-style-type: none"> <li>▪ All 44498 m<sup>3</sup> earthwork and 9659/15000 m<sup>3</sup> (64%) concreting completed.</li> <li>▪ 4622/6000 T (77%) Technology structures fabricated and 3283/6000 T (54%) erected.</li> <li>▪ 400/550 T (73 %) mech. eqpt. ordered. 400/550T (73 %) supplied &amp; 15/550 T erected.</li> <li>▪ 170/250 T (69%) elec. eqpt. Ordered, 168/175 T (86%) supplied &amp; 5/250 T erected.</li> <li>• In 4½ years, around 40/60 km pipeline was supplied and only around 20 km was laid</li> <li>• Work of Drinking Water Treatment Plant is not started</li> <li>• Make-up Water Pumphouse is partly constructed</li> <li>• Intake Well &amp; Drinking Water Pumphouse has been constructed.</li> <li>• Balance works being awarded; total 8 nos. packages envisaged</li> <li>• Ordering of all 8 packages has been placed. Work completed on 6 packages and under progress in balance packages.</li> </ul>
Following non-turnkey/ procurement contracts awarded (against RPN action) for balance works							
I	Balance Outdoor Piping works	I A DHAS, Bhilai	1.88 (nil)  1.88 (nil)  Gross Cost – 1.88	1.86	24.06.16	Nov'16 <b>(Apr'18)</b>	<ul style="list-style-type: none"> <li>▪ All 8760 T Technical Structure Erection completed.</li> </ul>
II	Civil works of Balance Outdoor Piping works (including cable gallery works)	I A DHAS, Bhilai	4.80 (nil)  4.80 (nil)  Gross Cost – 5.80	1.78	24.06.16	Nov'16 <b>(Apr'18)</b>	<ul style="list-style-type: none"> <li>▪ 912 m<sup>3</sup> Concreting completed.</li> </ul>
III	Structural works of the balance outdoor piping works (including cable gallery works)	BCCI, Bhilai	3.18 (nil)  3.18 (nil)  Gross Cost – 7.48	4.34	25.06.16	Nov'16 <b>(Apr'18)</b>	<ul style="list-style-type: none"> <li>▪ All 1000 T building structure erected.</li> <li>▪ Fabrication and erection of trestles and girders completed. Fabrication of staircases and platforms is in progress.</li> <li>▪ Cable gallery erection in IWPH &amp; DWPH area, completed.</li> <li>▪ Fabrication and erection of trestles and girders completed.</li> </ul>
IV	Balance Civil Works Of IWPH, DWPH, MWPH and ECRs	M/s. Five star Construction	4.30		03.08.16	Jan'17	<ul style="list-style-type: none"> <li>▪ 6200/7000 m<sup>3</sup> earthwork completed.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
		co., Bhilai	(nil) 4.30 (nil) Gross Cost – 5.47	2.83		(Dec'2020)	<ul style="list-style-type: none"> <li>970/2935 m<sup>3</sup> concreting completed.</li> </ul>
V	Erection, Testing & Commissioning of Balance Mechanical plant & Equipment and piping works of Intake Well Pump House & Drinking Water Pump House	M/s M K Ansari, Bhilai,	0.10 (nil) 0.10 (nil) Gross Cost – 0.13	0.21	12.09.16	Dec'16 (Oct'17)	<ul style="list-style-type: none"> <li>Alignment of all pumps completed. Foundation bolt grouted for all 4 pumps.</li> <li>Erection of valves completed in IWPH. Strainer &amp; sluice gate erection in progress in DWPH.</li> </ul>
VI	Erection, testing & commissioning of electrics for Intake Well Pump House & Drinking Water Pump House	M/s R N Electricals, Bhilai,	0.29 (nil) 0.29 (nil) Gross Cost – 0.31	0.21	16.09.16	Dec'16 (Oct'17)	<ul style="list-style-type: none"> <li>Total HT cable laying: 1800 RM, LT cable laying: 2000 RM, cable tray: 2200RM, Structure erection:-5 MT.</li> <li>No load trail of two HT motor in DWPH &amp; one LT motor in IWPH completed. Structure erection-1 MT.</li> </ul>
VII	Procurement packages	-	2.44 (nil) 2.44 (nil) Gross Cost – 3.03	2.23	-	Dec'16 (Mar'17)	<ul style="list-style-type: none"> <li>All 4 Purchase order issued &amp; supplied.</li> </ul>
VIII	Balance Work of Makeup Water and Drinking Water System	M/s Voltas	87.23 (nil) 87.23 (nil) Gross Cost – 93.24	74.93	23.06.17	Jun'18 (Dec'2020)	<ul style="list-style-type: none"> <li>38500/40000 m<sup>3</sup> earthwork completed.</li> <li>4800/9125 m<sup>3</sup> concreting completed.</li> <li>114/110 T Structure fabricated &amp; 104/110 T erected.</li> <li>2510/2950 T Equipment supplied &amp; 2257/3010 T erected.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
66	Gas Mixing and Booster station	NICCO Corpn	13.62 (nil) 13.30 (nil) Gross Cost – 14.37	14.22	06.01.12	Jan'13 <b>(Jan'16)</b>	<ul style="list-style-type: none"> <li>▪ All 3300 cum earthwork and 950 m<sup>3</sup> concreting completed.</li> <li>▪ All 95 T Tech Strs. erected</li> <li>▪ All 270 T Mech. Equip supplied &amp; erected.</li> <li>▪ All 20 T Elect Equip supplied and erected.</li> <li>▪ <b>Commissioning test done.</b></li> <li>▪ <b>PG test done.</b></li> </ul>
67	Propane Storage & handling system	Oil & Gas Plant Engineers	9.18 (nil) 8.90 (nil) Gross Cost – 9.56	8.53	19.04.11	Mar'12 <b>(Jun'19)</b>	<ul style="list-style-type: none"> <li>▪ All 5000 m<sup>3</sup> earthwork completed.</li> <li>▪ All 1220 T concreting completed.</li> <li>▪ All 300 T Mechanical equipment supplied &amp; erected.</li> <li>▪ All 50 T Electrical equipment supplied &amp; erected.</li> <li>▪ All 50 building structure fabricated &amp; erected.</li> <li>▪ <b>PAC issued on 01.05.18 w.e.f. 09.04.18.</b></li> <li>▪ <b>Performance guarantee certificate issued on 21.08.19.</b></li> </ul>
68	Energy monitoring system	Masibus Automation & Instrumentation Ltd,	3.18 (nil) 3.10 (nil) Gross Cost – 3.42	3.21	30.05.12	Jun'14 <b>(Jun'19)</b>	<ul style="list-style-type: none"> <li>▪ BE completed &amp; All 22 DE drgs. under approval category submitted.</li> <li>▪ All 4.9T Equipment ordered and All 4.9 T Equipment Supplied.</li> <li>▪ 4.8/4.9 T (98%) eqpt. erected</li> <li>▪ <b>Part PAC issued on 31.12.16 w.e.f. 20.12.16.</b></li> <li>▪ <b>Part commissioning certificate issued on 14.05.18 w.e.f. 01.03.18.</b></li> </ul>
69	Installation of Interplant Telecommunication system (Server Based) through Fiber Optical Cable Network	Equant Technology services	10.44 (nil) 11.90 (nil) Gross Cost – 12.16	8.99	12.07.12	Jan'14 <b>(Jun'19)</b>	<ul style="list-style-type: none"> <li>▪ <b>PAC issued on 03.05.16.</b></li> <li>▪ <b>Commissioning certificate issued on 16.01.17 w.e.f. 28.12.16.</b></li> <li>▪ <b>Phase-2 PAC issued on 19.11.18 w.e.f. 28.08.18.</b></li> <li>▪ <b>Commissioning certificate issued on 12.09.19 w.e.f. 11.08.19.</b></li> <li>▪ <b>PG test completed 07.10.2017.</b></li> </ul>
70	Installation of Buffer Vessels and Pressure Reducing & Metering Station for Oxygen, Nitrogen & Argon (Pkg. 075B)	Blue Star Ltd / Bharat Heavy Plate & Vessels Limited	55.11 (nil) 49.90 (nil) Gross Cost – 54.58	53.77	07.07.12	Jul'13 <b>(Sep'17)</b>	<ul style="list-style-type: none"> <li>▪ All 14050 m<sup>3</sup> earthwork completed.</li> <li>▪ All 1673 m<sup>3</sup> concreting completed.</li> <li>▪ All 1860 T mech. Eqpt. supplied and erected.</li> <li>▪ All 2.2 T elect. Equip. supplied &amp; erected.</li> <li>▪ Nitrogen blowing started on 29.09.16.</li> <li>▪ PAC issued on 30.01.18 w.e.f. 06.12.17</li> <li>▪ <b>Commissioning test completed on 11.03.2020.</b></li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
71	2 x 1250 TPD Oxygen Plant on BOO Basis	Praxair	(NPV-1065.18 Cr.)	-	18.03.11	Mar'13 (Apr'16)	<ul style="list-style-type: none"> <li>1<sup>st</sup> unit started on 15.3.14.</li> <li>2<sup>nd</sup> unit is in operation since 24.11.18.</li> <li><b>Commissioning test done.</b></li> </ul>
72	Drop Test Facility for Universal Rail Mill	M/s Pragya Equipments Pvt. Ltd., Indore	0.98 (nil) 0.98 (nil) Gross Cost – 0.98	0.66	13.09.13	Jun'14 (Feb'2020)	<ul style="list-style-type: none"> <li>All 8 BE (A) &amp; all 2 DE (A) drawing under approval category submitted</li> <li>All 33 T mech. Eqpt. Supplied &amp; erected.</li> <li>1.9/2 T elect. Eqpt. Supplied &amp; 1.9/2 T erected.</li> <li><b>Commissioning test done.</b></li> </ul>
73	Air Drying Plant for Universal Rail Mill and Air Drying and Filtration Plant for BRM	M/s Mellcon Engineers Pvt. Ltd, New Delhi	1.34 (nil) 1.34 (nil) Gross Cost – 1.43	1.29	31.03.15	Nov'15 (Dec'2020)	<ul style="list-style-type: none"> <li>RPN issued to M/s Summits Hygronics Pvt Ltd. Coimbatore on 14.10.13.</li> <li>All 5 BE (A) drawing &amp; 31 DE (A) under approval category submitted.</li> <li>All 25.4 T Mechanical equipment supplied &amp; 25/25.4 T erected.</li> <li>0.5/1.2 T Electrical equipment supplied &amp; 0.5/1.2 T erected.</li> </ul>
74	Roll & Repair Shop Equipment for Universal Rail Mill	M/s MACO Corporation, Kolkata	23.90 (nil) 23.20 (nil) Gross Cost – 25.01	24.73	26.09.13	Sep'14 (Mar'18)	<ul style="list-style-type: none"> <li>All 14 BE (A) drawing &amp; all 13 DE (A) under approval category submitted</li> <li>All 466 T mech. Eqpt supplied &amp; erected.</li> <li>All 30 T elect. Eqpt supplied &amp; erected.</li> <li>PAC issued on 07.02.18 w.e.f. 06.11.17.</li> <li><b>Commissioning Certificate issued on 07.05.18 w.e.f. 14.03.18.</b></li> <li><b>Contract closed.</b></li> </ul>
75	Illumination, Earthing & lighting protection system for SMS-3	M/s ETA Engg. Ltd., Kolkata	14.80 (nil) 15.20 (nil) Gross Cost – 16.00	9.44	26.11.14	Feb'16 (RPN issued on 20.03.2020)	<ul style="list-style-type: none"> <li>All 8 BE (A) drawing &amp; ALL 13 DE (A) under approval category submitted.</li> <li>320/350 T elect. Eqpt. Ordered, 320/350 T supplied &amp; 316.5/350T erected.</li> <li>RPN issued on 20.03.2020, modality for execution of balance works under process.</li> </ul>
76	Installation of Rail & Road Weigh Bridges	M/s ACME Automation	1.59 (nil)		19.11.14	Nov'15 (Nov'16)	<ul style="list-style-type: none"> <li>All 9 BE (A) drawing &amp; all 7 DE (A) under approval category submitted</li> <li>All 178 m<sup>3</sup> earth work &amp; all 523 m<sup>3</sup> concreting completed</li> <li>All 60 T elect Eqpt supplied &amp; erected.</li> <li>Preliminary Acceptance Certificate issued on 15.06.18 w.e.f. 12.01.18.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
			1.60 (nil)  Gross Cost – 1.60	1.51			<ul style="list-style-type: none"> <li>Commissioning certificate issued on 23.07.18 w.e.f. 27.03.18.</li> <li><b>FAC issued on 07.03.2020 w.e.f. 05.02.2020.</b></li> </ul>
77	Hot metal Rail Weigh Bridges	M/s Sartorius Mechatronics	1.80 (nil)  1.70 (nil)  Gross Cost – 1.86	1.67	14.05.14	May'15 <b>(Apr'18)</b>	<ul style="list-style-type: none"> <li>All 2 BE (A) drawing &amp; all 13 DE (A) under approval category submitted</li> <li>All 54 T Eqpt supplied &amp; erected.</li> <li>All 1600 m<sup>3</sup> Earthwork &amp; all 660 m<sup>3</sup> concreting completed.</li> <li><b>PAC issued on 02.05.18 w.e.f.23.02.18.</b></li> </ul>
78	Design, Supply, Erection, Testing & Commissioning of Railway Electrification work of existing/proposed Railway Tracks Switching Post (SSP) including modification of existing 25KV AC, 50 HZ Single Phase Over-Head Equipment (OHE)	M/s Bright Power Projects Pvt. Ltd.	18.83 (nil)  18.83 (nil)  Gross Cost – 21.82	11.69	06.07.15	Aug'17 No response from Party.	<ul style="list-style-type: none"> <li>All 445 T Traction mast, 118 nos. (as per drawings) regulated eqpt., 47 Km/ 54 Km over head eqpt. and all 2 Km contact wire supplied.</li> <li>11A1-all 1325nos. 25 KV composite bracket insulators supplied. 11 A2- all 1325 nos. 25 KV composite stay insulators supplied. 4 A1-all1325 nos. single bracket assembly (conventional) without insulator supply is balance.</li> <li>2A-Concrete for foundation &amp; plinth hard soil &amp; rock Scope 828 m<sup>3</sup>.</li> <li>550/2520 m<sup>3</sup> Supply of OHE mast, cables, insulators etc. are completed.</li> <li>Mast erection work, bracket fixing, done in wagon tippler-5, 6, MOR &amp; MGR area is in progress.</li> <li>The party is not responding, letter sent on 17.08.19. Discussed with consultant RITES and Projects-Commercial for further processing.</li> <li>Party not responding. Conciliation failed. Party requested for Arbitration. After taking Management approval, letter send to party for finalizing arbitrators.</li> </ul>
79	Installation of fire fighting system for transformer installed in TDS-1	M/s Vendere sales service Pvt. Ltd.	0.45 (nil)  0.45 (nil)  Gross Cost –	0.40	29.10.14	Apr'15 <b>(Dec'16)</b>	<ul style="list-style-type: none"> <li>Erection of Fire fighting panel &amp; Cable laying completed.</li> <li>All 3.9 T equipment erection completed on 13.12.16. Site work completed on 13.12.16.</li> <li><b>PAC &amp; Commissioning certificate issued by BSP on 06.02.17.</b></li> <li><b>PG test done.</b></li> </ul>
80	Installation of New LT Sub Station -50 B and replacement of existing -9B & 9H	M/s Technis system Faridabad	6.35 (nil)  6.35 (nil)  Gross cost-	3.39	12.04.18	Jan'19 (Dec'20)	<ul style="list-style-type: none"> <li>2575/3635 m<sup>3</sup> Earthwork completed.</li> <li>213/219 m<sup>3</sup> Concreting completed.</li> <li>11/12 T Building structure fabricated &amp; 11/12 T erected.</li> <li>0/3 T Mechanical equipment supplied &amp; 0/3 T erected.</li> <li>87/92 T Electrical equipment supplied &amp; 22/92 T erected.</li> </ul>

Sl. No.	Package	Party	Cost in Rs.Cr. Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Date of Contract	Schedule (Likely/Actual)	Status BSP
81	Quality Assurance and Quality Control Facility	M/s Sterling and Wilson Pvt. Ltd., Mumbai	72.59 (nil)  72.59 (nil)  Gross Cost – 84.44	16.99	17.05.19	Nov'20 (Apr'21)	<ul style="list-style-type: none"> <li>▪ Kick-off meeting held on 10.06.19 by GM I/c Projects.</li> <li>▪ Area survey work under progress. .</li> <li>▪ Excavation works under progress in SMS-III lab &amp; RMP-III lab.</li> <li>▪ All 6930 m<sup>3</sup> Earthwork completed.</li> <li>▪ 1350/2700 m<sup>3</sup> Concreting work completed.</li> </ul>
82	Construction of Road and Storm Water Drainage Network for SMS-III	M/s Sudhanshu Brothers, Bhilai	4.24 (nil)  4.24 (nil)  Gross cost-		02.05.18	Jan'19 <b>(Jun'2020)</b>	<ul style="list-style-type: none"> <li>▪ 8560/19406 m<sup>3</sup> Earthwork completed.</li> <li>▪ 585/2385 m<sup>3</sup> Concreting work completed.</li> <li>▪ 1050/2650 m<sup>3</sup> WMM completed</li> <li>▪ 234/710 m<sup>3</sup> DBM completed.</li> <li>▪ 40/200 m RCC pipe laying completed.</li> <li>▪ Work completed as per the scope by the party in Jun'2020. Balance done by plant itself.</li> </ul>
83	Construction of Road And Storm Water Drainage Network for SMS-III & BRM area	M/s BSBK Pvt. Ltd., Bhilai	31.32 (nil)  31.32 (nil)  Gross cost- 35.10	8.02	25.06.19	Jun'21	<ul style="list-style-type: none"> <li>▪ 60400/267700 m<sup>3</sup> Earthwork completed.</li> <li>▪ 14000/11000 m<sup>3</sup> Concreting work completed.</li> <li>▪ 3550/7150 m<sup>3</sup> WMM completed</li> <li>▪ 250/3700 m RCC pipe laying completed.</li> </ul>
84	Construction of Road and Storm water drainage for slag yard of SMS-III	M/s Five star Construction	1.74 (nil)  1.74 (nil)  Gross cost-		22.03.19	Jul'19 (Oct'20)	<ul style="list-style-type: none"> <li>▪ All 7450 m<sup>3</sup> Earthwork completed.</li> <li>▪ All 1215 m<sup>3</sup> Concreting work completed.</li> </ul>
85	Plant wide Network connectivity	M/s Bridge & Roof Co. Ltd., Kolkata	19.98  19.98  Gross cost-	18.78	02.02.19	Feb'20 (Nov'20)	<ul style="list-style-type: none"> <li>▪ All 85 T Electrical equipment supplied and erected.</li> <li>▪ All 120 KM OFC supplied and laying completed</li> </ul>

**The Overall Physical Progress of BSP Expansion till Sep'20:**

<b>Discipline</b>	<b>Unit</b>	<b>Total Quantity #</b>	<b>Work Scheduled</b>	<b>Work completed till date</b>	<b>% complete of Scheduled</b>
Design & Engg.	Nos.	56,000	56,000	58,915	105.2 *
Piling	Nos.	21,938	21,938	21,735	99.1
Civil Work	cum	15,63,000	15,63,000	13,80,743	88.3
Structural Fabrication	MT	3,52,600	3,52,600	3,41,403	96.8
Structural Erection	MT	3,52,600	3,52,600	3,34,456	94.9
Equipment supply	MT	2,15,750	2,15,750	2,15,774	100.0
Equipment erection	MT	2,15,750	2,15,750	2,10,726	97.7

\* Actual progress includes the additional drawings submission (as per MECON's report)

# Total Qty. (Scope) has been reconciled in Apr'19 based on inputs from all Zones.



## DSP – Expansion of Durgapur Steel Plant

1. **'In-Principle' Approval** : Jul'07
2. **Cost** (Rs. in crore):
  - a) Indicative cost (Jul'07) : Rs 5549 (Net of Cenvat benefit of Rs 677 crore)  
(FE – 990.2)
  - b) Revised estimates (Jul'08) : Rs 8004 (Net of Cenvat benefit of Rs 780 crore)  
(Gross Margin - 2479 Rs. Crore)
  - c) Approved Cost (Jun'09) : Rs 2875 (Net of Cenvat benefit of Rs 267 crore)  
(inclusive of EDC, IDC & Contingency of Rs. 447 Cr.)  
(Gross Margin - Rs 833. crore)
  - d) Revised Cost Estimate (Dec'19) : Rs 3168.71 (Net of Cenvat benefit of Rs 197.4 crore)  
(inclusive of EDC, IDC & Contingency of Rs. 504.03 Cr.)  
(Gross Margin - Rs 840. crore)
  - e) Cost of approved packages : Rs 2664.69 (Net of Cenvat benefit of Rs 197 crore)  
(FE – 446.53)
  - f) **Expenditure (Till Sep'20) : Rs.3155.07 Crore**
3. **Approved Schedule** : Dec'12  
Actual (Hot trial taken) : Jun'15

#### 4. **Production (Mtpa)**

Item	Installed Capacity	2006-07 (Base Case)	After Expansion (Current Phase)	2016-17	2017-18	2018-19	2019-20	ABP 2020-21
Hot Metal	2.088	2.064	2.45	2.318	2.282	2.515	2.40	2.55
Crude Steel	1.80	1.869	2.20	2.042	2.042	2.219	2.19	2.25
Saleable Steel	1.586	1.701	2.12	1.932	1.952	2.125	2.08	2.17

#### 5. **Techno-economic parameters**

Item	2006-07	After Expansion
Coke/ Fuel Rate (Kg/thm)	525	465
BF Productivity (t/m <sup>3</sup> /d)	1.555	1.77
Specific energy (Gcal/tcs)	7.07	7.06
Manpower Productivity (tcs man/year)	196	246

#### 6. **Facilities in Phase-I Expansion**

- New Medium Structural Mill (1.0 Mtpa)
- New Bloom cum Round Caster (0.75 Mtpa)
- New Ladle Furnace (125t)
- New Dolomite Plant (300tpd)
- Re-building of COB-2 with Coke Sorting Plant
- Revamping of By-Product Plant
- New Slag Yard for SMS
- Upgradation of Raw Material / Coal Handling Facilities
- Matching Infrastructure & Services facilities

#### 7. **Status**

- After review of investment plan during Jul'08, SAIL board decided to defer Wheel & Axle packages (Wheel forging & Rolling Line; Axle Plant: Radial Forging Machine and CNC Machine for W&A machining).
- After overall review of SAIL's expansion plans in June'09, major facilities that have been deferred includes New Sinter plant (300 m<sup>2</sup>), Reconstruction of BF-1 (1681 m<sup>3</sup>), Upgradation of existing Billet Caster, New Wire Rod Mill (0.50 Mtpa) and New Merchant Mill (0.7 Mtpa).

## Package-wise Details for Expansion of Durgapur Steel Plant

### Packages Under Implementation:

Sl.	Package	Party	Cost in Rs. Cr. NoC (FE) Gross	Expenditure upto Sep'2020 Rs. Cr.	Eff. Date of Contract	Contractual Schedule (Likely/ Actual)	Status	DSP
<b>RMHP</b>								
1a	Debottlenecking of RMHP	M/s Tecpro System M/s Haldia Nirman Projects	92.58 99.19	30.64	01.04.11	<b>Sep'12 (May'14) Contract terminated with M/s Tecpro on 23.05.14.</b>	<ul style="list-style-type: none"> <li>▪ RPN issued to M/s TECPRO on 26.06.13.</li> <li>▪ Contract with M/s Tecpro System was terminated on 23.5.14</li> </ul>	
1b	Balance Debottlenecking jobs of RMHP	M/s Bengal Tools	78.84 86.85	86.81	15.07.14	<b>Sep'15 (Mar'16)</b>	<ul style="list-style-type: none"> <li>▪ Order placed on M/s Bengal Tools Ltd at a firm up cost of Rs.78.84 Cr. (net of Cenvat) on 23.05.14 on Risk Purchase basis.</li> <li>▪ Preliminary Acceptance Certificate has been issued on 25.3.2016.</li> <li>▪ Commissioning Certificate has been issued on 30.05.16</li> <li>▪ Performance Guarantee test for the facility has been completed in Feb'17. 2<sup>nd</sup> phase of PG Test has been completed on 22.07.17.</li> <li>▪ PG certificate has been issued on 16.08.17 (w.e.f 22.7.17)</li> <li>▪ <b>FAC issued on 31.01.18.</b></li> </ul>	
2	Barrel type Reclaimer (01 no.) – RMHP Rated Capacity – 900/hr.	M/s Elecon Engineering Company Ltd.	14.46 16.43	15.23	27.11.08	<b>Feb'10 (Jan'12)</b>	<ul style="list-style-type: none"> <li>▪ Commissioning certificate has been issued w.e.f 06.01.2012.</li> <li>▪ Performance Guarantee (PG) test conducted successfully from 15.01.13 to 14.02.13 in five spells.</li> <li>▪ <b>Final Acceptance Certificate has been issued on 23.10.2013.</b></li> </ul>	
3	Pusher car (02 nos.) – RMHP Rated Capacity- 58 wagons / 7000t	M/s Elecon Engineering Company Ltd.	21.78 23.80	22.25	30.09.08	<b>May'10 (Sep'14)</b>	<ul style="list-style-type: none"> <li>• Pusher Car-1: Commissioning certificate has been issued on 15.09.14.</li> <li>• Pusher Car-2: Commissioning certificate has been issued on 20.06.14.</li> <li>• PG certificate for Pusher Car-1 for RMHP has been issued w.e.f 06.04.16</li> <li>• <b>Final Acceptance Certificate for both Pusher Cars has been issued w.e.f 31.5.16.</b></li> </ul>	
<b>COB-2 &amp; BPP</b>								
4	Main Works Package for COB-2 <b>(0.478Mtpa; 78 Ovens Battery, 4.45 m tall; 96 ovens pushing / day, UV 23.8 m3)</b>	M/S GAEL-MICCO / A. K. Dutta	14.91 16.18	15.43	09.06.10	<b>Nov'12 (Nov'13)</b>	<ul style="list-style-type: none"> <li>▪ PAC has been issued on 28.11.13.</li> <li>▪ Commissioning Certificate issued on 3.12.13.</li> </ul>	
5	Revamping of Coke Sorting and Coal Handling Plant	M/S Bengal Tools Ltd	11.41 12.36	12.22	09.06.10	<b>Jun'12 (May'14)</b>	<ul style="list-style-type: none"> <li>▪ Job Completed.</li> <li>▪ <b>Final Acceptance Certificate has been issued on 13.04.2015</b></li> </ul>	
6	Debottlenecking of Coal Handling Plant	M/s Shriram EPC	64.24 67.99	59.25	11.12.10	<b>Oct'12 (Aug'16)</b>	<ul style="list-style-type: none"> <li>▪ Preliminary Acceptance Certificate (PAC) has been issued w.e.f 31.08.16</li> <li>▪ All 15 nos. Silos are in into operation.</li> <li>▪ Coal has been transported from new conveyors to new Silos through Tippler-2 route.</li> <li>▪ <b>FAC for balance job of de-bottle necking of RMHP issued on 31.01.18.</b></li> </ul>	
7	Coke Pusher Cars	M/s HEC	19.67 21.29	21.13	10.12.10	<b>Feb'12 (Dec'14)</b>	<ul style="list-style-type: none"> <li>▪ PAC for Pusher Car nos. 1 &amp; 2 has been issued on 1.12.13 &amp; 15.12.14 respectively.</li> <li>▪ Commissioning Certificate has been issued w.e.f 17.08.15.</li> <li>▪ <b>Final Acceptance Certificate has been issued w.e.f 02.07.16.</b></li> </ul>	
8	Oven Machines							
a	Charging cars (2 nos.)	M/s BEC	12.26		28.03.11	Jul'12	<ul style="list-style-type: none"> <li>▪ Preliminary Acceptance Certificate has been issued w.e.f 16.10.13.</li> </ul>	

Sl.	Package	Party	Cost in Rs. Cr. NoC (FE) Gross	Expenditure upto Sep'2020 Rs. Cr.	Eff. Date of Contract	Contractual Schedule (Likely/ Actual)	Status	DSP
			13.3	13.01		(Nov'13)	<ul style="list-style-type: none"> <li>Commissioning Certificate has been issued w.e.f 10.12.13.</li> <li><b>Final Acceptance certificate (FAC) for both Charging Cars has been issued w.e.f 27.09.16.</b></li> </ul>	
b	Electric Locos (2 nos.)	M/s BEC	2.98 3.28	3.24	28.03.11	Jul'12 (Nov'13)	<ul style="list-style-type: none"> <li>Preliminary Acceptance Certificate has been issued w.e.f 21.11.13.</li> <li>Commissioning Certificate has been issued w.e.f 10.12.13</li> <li><b>Final Acceptance certificate (FAC) for 2 nos. Electric Locos has been issued on 27.09.16</b></li> </ul>	
c	Guide Cars (2 nos.)	M/s Beekay Engg / Beijing Shoungang	6.84 (5.9) 7.45	9.64	28.03.11	Jul'12 (Dec'14)	<ul style="list-style-type: none"> <li>PAC for Guide Car nos. 1 &amp; 2 has been issued on 23.12.14 &amp; 27.11.13 respectively.</li> <li>Commissioning Certificate has been issued w.e.f 06.01.15.</li> <li><b>Final Acceptance Certificate has been issued on 6.12.16.</b></li> </ul>	
9	Refractories, silica bricks & mortar – COB-2	M/s Wugang Refractory Co Ltd., China	17.86 20.82	20.52	27.11.09	Jul'10 (Jul'11)	<ul style="list-style-type: none"> <li>Manufacturing completed. (Sch – July'10, Actual –Jun'11)</li> <li>Supply Completed in Jul'11</li> </ul>	
10	Other Package of COB- 2	Various	Various				<ul style="list-style-type: none"> <li>Order placed for all 62 packages.</li> </ul>	
11	Benzol Plant (1.7t / hr.)	M/s Bengal Tools	47.64 52.64	55.51	28.12.10	Dec'12 (Jul'15)	<ul style="list-style-type: none"> <li>PAC has been issued w.e.f 19.03.15.</li> <li>Commissioning Certificate has been issued w.e.f 26.08.15.</li> <li>Performance Guarantee Certificate has been issued w.e.f 19.1.16.</li> <li><b>Final Acceptance Certificate for the facility has been issued on 14.7.16</b></li> </ul>	
<b>SMS Area</b>								
12	EOT Cranes for New Slag Yard (150t - 2 Nos., 15t – 2 nos.)	M/s HEC Ltd.	36.50 39.51	35.66	23.06.10	Aug'11 (May'16)	<ul style="list-style-type: none"> <li>PAC has been issued on 28.03.16.</li> <li><b>Commissioning Certificate for 3 Nos. EOT Crane issued on 19.05.18.</b></li> </ul>	
13	Structural works of New Slag yard	M/s R K Engg	10.85	8.27	29.06.10	Feb'12 (May'14)	<ul style="list-style-type: none"> <li>PAC has been issued on 29.4.2016.</li> <li>Commissioning certificate issued for structural works package on 16.9.16.</li> <li><b>Completion certificate for structural works package has been issued.</b></li> </ul>	
14	Civil works of New Slag yard	M/s M R Enterprise	14.80	13.64	02.07.10	Jan'12 (Nov'13)	<ul style="list-style-type: none"> <li>Piling completed. (Sch-Jan'11, Act - Feb'11)</li> <li>RCC - Completed (Sch-Dec'11, Actual –Jul'13)</li> <li>PAC for the package has been issued w.e.f 16.1.2016.</li> <li><b>Completion Certificate has been issued w.e.f 23.7.2016</b></li> </ul>	
15	Slag Pot & Slag Pot transfer Cars of New Slag Yard	M/s AMT International	14.23 15.33	13.73	28.06.10	Sep'11 (Sep'13)	<ul style="list-style-type: none"> <li>Trial run of slag pot transfer car-1 over 90° crossing with twin pots has been taken.</li> <li>PAC has been issued w.e.f 17.1.2016.</li> <li>Commissioning certificate issued on 18.4.17</li> </ul>	
16	New Ladle Furnace no. 3 Heat size -125t (nominal, 110t (min.), 130t (max.) No. of heats - 24 (avg.), 28 (max.) / day (24x320) = 7680heats/yr	M/s Eastern Metec Pvt. Ltd/ Badische Stahl Engineering GMBH	36.31 (6.76) 38.98	34.28	17.03.11	Jul'12 (Dec'13)	<ul style="list-style-type: none"> <li>25MVA Transformer charged on 22.11.13</li> <li>Coke arcing done on 22.11.13. Liquid Steel Arcing done on 14.12.13.</li> <li>PAC for facility has been issued w.e.f 15.1.15.</li> <li>Commissioning Certificate has been issued w.e.f 05.09.15</li> <li>PG test conducted from 27-31.07.17.</li> </ul>	
17	New Dolomite plant (300 tpd x 330 days) 0.099 Mtpa	M/s Qualical / Manishri Refractories	48.74 (8.76) 51.17	46.48	19.10.10	Jun'12 (Jan'15)	<ul style="list-style-type: none"> <li>PAC for the facility has been issued w.e.f 19.11.14.</li> <li>Commissioning Certificate has been issued w.e.f 28.8.2015.</li> <li>PG Test of New Dolomite Plant started on 02.08.17 and completed on 06.08.17.</li> </ul>	
18	Belt Conveyor system for transportation of Dolomite	M/s Tecpro Systems	11.09 11.54	7.96	04.05.11	Jun'12 Contract Terminated on 04.01.14	<ul style="list-style-type: none"> <li><b>Risk Purchase Notice (RPN) issued to M/s Tecpro on 04.01.14.</b> Final TS received from MECON.</li> <li>NIT issued on 13.01.14. Offers received from M/s Indiana Conveyors, M/s Bengal Tools, M/s Techno Fab. &amp; M/s Graduate Agro &amp; Mechanical Engineers.</li> <li><b>Contract with M/s Tecpro Systems terminated and balance work awarded to M/s Bengal Tools.</b></li> </ul>	

Sl.	Package	Party	Cost in Rs. Cr. NoC (FE) Gross	Expenditure upto Sep'2020 Rs. Cr.	Eff. Date of Contract	Contractual Schedule (Likely/ Actual)	Status	DSP
18a	Balance Belt Conveyor system for transportation of Dolomite	M/s Bengal Tools Ltd.	4.98 5.74	5.06	13.03.14	Aug'14 (Jan'15)	<ul style="list-style-type: none"> <li>PAC for belt conveyor has been issued w.e.f 19.11.14.</li> <li>Commissioning certificate has been issued effective from 09.03.2015.</li> <li>PG test conducted for set of raw Dolo conveyors from 04.08.17 for 10 days.</li> </ul>	
<b>Bloom Cum Round Caster</b>								
19	Installation of 1x4 Strand Bloom-cum-Round Caster (Main Package) Design Production Capacity - 0.75mtpa No. of BOFs-3 (3/3 operation) Heat size – 125t (nom.), 150t (max) 24 heats / day Products: <b>Blooms - 350x240; 0.7 Mtpa (for New MSM)</b> <b>Rounds – 340 mm dia; 0.05 Mtpa (for WAP)</b>	M/s Danieli & C / GACL – MICCO (Danieli Italy- 85.81 , Danieli India – 114.17, GACL- MICCO- (19.05)	247.76 (85.81) 255.33	235.37	05.05.10	Jul'12 (Feb'15)	<ul style="list-style-type: none"> <li>First Heat taken from Bloom cum Round Caster on 12.2.15 (Size: 350 * 240 mm bloom)</li> <li>PAC issued on 04.04.15</li> <li>Commissioning test conducted between 14.9.15 to 17.9.15. Total 57 heats in 7 sequences were cast. Total weight / length of bloom cast = 7040t/10895m.</li> <li>Commissioning Certificate has been issued on 5.10.15 w.e.f 17.09.15</li> <li>Round Casting started on 8.11.2015.</li> <li>Performance Guarantee Test for Rounds completed on 08.09.2017.</li> <li>PG Test of Bloom cum Round caster for round section held from 05.09.17 to 08.09.17.</li> <li>PG Test for Blooms 350*240 held from 18.02.18 to 20.02.18.</li> <li><b>PG certificate issued on 5.4.18 (w.e.f. 4.4.18).</b></li> </ul> <p>Production– 2015-16 – 80,812 t 2016-17 – 2,26,946 t 2017-18 – 3,02,821 t 2018-19 – 4,50,400 t 2019-20 – 4,49,855t <b>2020-21 (up to Sep'20) - 197,405 t</b></p>	
20	Main Cranes for Bloom-cum-Round Caster area <b>(75/15t -1 No., 20t – 1 No., 25t – 2 No.)</b>	M/s AMT International	19.69 21.63	19.91	27.08.10	Apr'12 (Apr'15)	<ul style="list-style-type: none"> <li>All four cranes are in operation.</li> <li>PAC has been issued on 15.07.2015.</li> <li>Commissioning Certificate has been issued on 30.6.18 w.e.f 9.6.16</li> </ul>	
21	Structural works for Bloom-cum-Round Caster area	M/s Bridge & Roof	45.74 (including free issue of steel)	21.04	31.08.10	Apr'12 (May'14)	<ul style="list-style-type: none"> <li>PAC for the package has been issued w.e.f 3.12.14</li> <li><b>FAC has been issued w.e.f 28.8.15.</b></li> </ul>	
22a	Civil works for Bloom-cum-Round Caster area	M/s Jain Infra Ltd.	40.16 (including free issue of steel of 8.66)	13.50	10.09.10	May'12 (Contract terminated with M/s JIL on 20.10.12)	<ul style="list-style-type: none"> <li>Contract <b>terminated</b> with M/s JIL on 20.10.12. (Value of job executed-13.02 Cr + Cost of free issue of steel 5.06 Cr i.e. total 18.08 Cr.)</li> <li>Contract placed on M/s Bridge &amp; Roof for remaining work on 20.10.12 on risk purchase basis</li> </ul>	
22b	Balance Civil works for Bloom-cum-Round Caster area	Bridge & Roof	49.31 (including free issue of steel of 16.56)	37.52	20.10.12	Oct'13 (Nov'14)	<ul style="list-style-type: none"> <li>Civil job Commenced on 25.10.12 after retendering.</li> <li>Preliminary Acceptance Certificate for the package has been issued w.e.f 31.10.14</li> <li><b>Final Acceptance Certificate has been issued on 11.9.15 (w.e.f 28.8.15).</b></li> </ul>	
23	External Water Supply System for BRC & LF-3	M/s Gillanders Arbuthnot & Co. Ltd. (Unit of M/s MICCO)	34.46 36.68	32.89	15.07.11	Jul'12 (Dec'15)	<ul style="list-style-type: none"> <li>Water supply system for LF-3 &amp; BRC is in operation.</li> <li>PAC for LF-3 system &amp; BRC has been issued w.e.f 10.7.2015 &amp; 31.10.2015 respectively.</li> <li>PAT for Lime Spray Unit-1, Spray Water System &amp; Return Water System done from 08.12.15 to 10.12.15.</li> <li>Commissioning Certificate for the facility has been issued w.e.f 11.5.2016</li> </ul>	
<b>Medium Structural Mill</b>								
24	Installation of New Medium	M/s Siemens-	633.39		11.05.10	Sept'12	<ul style="list-style-type: none"> <li>1<sup>st</sup> hot trial taken on 08.06.2015 and 2<sup>nd</sup> hot trail started on 23.08.2015.</li> </ul>	

Sl.	Package	Party	Cost in Rs. Cr. NoC (FE) Gross	Expenditure upto Sep'2020 Rs. Cr.	Eff. Date of Contract	Contractual Schedule (Likely/ Actual)	Status DSP
	Structural Mill –(Main Package) - <b>[1 Mtpa, 3333 tpd) Angle (90-200); Channel (100-300); Beam (100-300); Round (60-120), RCS (60-120)]. NPB 200, Angle 200x16/20/24, MC 300, NPB 300, WPB 160 &amp; MB 300 can be rolled from bloom size 350x240 produced from BRC and other smaller sections can be rolled from blooms of old caster</b>	VAI Italy (SVIT), SVIN, & SEPC (SVIT – 381.79, SVIN – 152.72, SEPC – 98.89)	(381.79) 659.84	616.63		(Jun'15) Hot trial taken	<ul style="list-style-type: none"> <li>Profile of Narrow Parallel Beam (NPB) 100, Medium Beam (MB) 100, Wide Parallel Beam (WPB) 160, Medium Channel (MC) 100, Medium Channel-300, and Angle 90 during trial rolling has been achieved. Rolled products are being dispatched from Feb'16.</li> <li>PAC for the package has been issued on 17.3.16 w.e.f. 15.03.16.</li> <li>Final Acceptance Certificate (FAC) for emergency power package (M/s IEE Projects) issued on 12.05.17 (w.e.f. 29.7.16).</li> <li><b>Commissioning test started on 15.06.19 at 5.15 AM with rolling of ISMC100 which continued till 20.06.19 (5424 t rolled). Section changed to ISMB250 and rolling of ISMB250 started from 21.06.19 upto 25.6.19 C shift (7328 t rolled).</b></li> <li><b>Total rolled during commissioning from 15.06.19 to 25.06.19: 12390 t. Commissioning tests are under evaluation.</b></li> <li><b>Widening of Crop chute modification is completed. However, Bin evacuation system to be completed by Primetals Italy in Oct'19.</b></li> <li><b>Rolling of MB 300 started from 15.08.19 &amp; Contd. till 23.08.19</b></li> <li><b>Rolling of MC 100 started from 24.08.19, in progress</b></li> </ul> <p>Production– 2015-16 – 3027 t 2016-17 –39,188 t 2017-18 – 97,371 t 2018-19 – 1,71,427 t 2019-20 – 2,17,275 t 2020-21 (upto Sep'20)- 95,477 t</p>
25	Re heating furnace for MSM (220 tph) <b>[Input Bloom-300 x 150mm &amp; 350 x 240mm; length- 6,8,10 &amp; 12m) Annual prodn. – 10,41,700 t/yr; 220 tph; Charging temp. - 20°C; discharge temp. - 1200-1250 °C Fuel – mixed gas (BF+CBM) or (BF+LPG) Fce. type – Front Charging &amp; End Discharging Type Walking Beam Furnace</b>	M/s MICCO-Bricmont (MICCO – 39.82, Bricmont USA -32.92, Bricmont India – 5.50)	78.24 (32.92) 81.47	77.92	21.04.10	Apr'12 (Jun'15) Hot trial taken along with MSM main mill	<ul style="list-style-type: none"> <li>Furnace lighted-up on 31.05.2015.</li> <li>PAC has been issued w.e.f 22.06.2015. Hot trial taken along with MSM main mill in Jun'15.</li> <li>Commissioning Certificate has been issued w.e.f 09.05.16.</li> <li>PG certificate issued on 30.11.19 w.e.f 30.08.19.</li> </ul>
26	EOT main Cranes for Medium Structural Mill <b>(60t – 2 Nos., 30t – 2 Nos., 20t – 7 Nos. – 5 nos. in AB Bay &amp; 2 nos. in BC bay) Priority Cranes AB Bay – 3x20t BC Bay – 2x20t CD Bay – 1x60t + 2x30t DE Bay – 1x60t</b>	M/s HEC Ltd.  MOU signed on 23.02.08	49.00 52.99	48.63	23.06.10	Jun'12 (Nov'16)	<ul style="list-style-type: none"> <li>All 9 (nine) priority cranes were put in operation with minimum facilities using in-house resources.</li> <li>PAC for all 11 (eleven) number cranes have been issued on 23.8.16 w.e.f 3.9.16.</li> <li>Commissioning certificate issued on 30.06.18 w.e.f. 29.05.18</li> </ul>
27	Structural works for MSM	M/s Bridge & Roof	65.85 (including free issue of steel of	49.87	10.08.10	Apr'12 (Oct'14)	<ul style="list-style-type: none"> <li>PAC for the facility has been issued w.e.f 1.12.14.</li> <li><b>FAC for the facility has been issued w.e.f 1.6.15.</b></li> </ul>

Sl.	Package	Party	Cost in Rs. Cr. NoC (FE) Gross	Expenditure upto Sep'2020 Rs. Cr.	Eff. Date of Contract	Contractual Schedule (Likely/ Actual)	Status	DSP
			37.53)					
28a	Civil works for MSM	M/s Jain Infra Ltd.	89.19 (including free issue of steel of 22.40)	50.52	04.11.10	Sep'12 (Contract terminated with M/s JIL on 05.02.13)	<ul style="list-style-type: none"> <li>Contract terminated with M/s JIL on 05.02.13. (Value of job executed-51.60 Cr + Cost of free issue of steel 14.86 Cr i.e. total 66.46 Cr.)</li> <li><b>Under Arbitration</b></li> <li>Contract placed on M/s Bridge &amp; Roof for remaining work on 05.02.13 on <b>Risk purchase basis.</b></li> </ul>	
28b	Balance Civil works for MSM	M/s Bridge & Roof	99.49 (including free issue of steel of 16.32)	98.92	08.02.13	Feb'14 (Feb'15)	<ul style="list-style-type: none"> <li>PAC for the facility has been issued w.e.f 17.10.15.</li> <li><b>FAC issued on 31.8.16.</b></li> </ul>	
<b>Power Distribution / Utilities / Infrastructure</b>								
29	Medium Voltage Power Distribution Package for Phase -I Facilities  <b>Group A facilities:</b> Substations for MSM, BOF, extension of MRS for LF-3 and Sajara-2.  <b>Group B facilities:</b> Substations for CO & BPP, RMHP, and conversion of outdoor to indoor substations at Punabad and Sajara.	M/s Sterling and Wilson	82.82 88.95	83.36	07.09.10	Jun'12 (Jan'17)	<ul style="list-style-type: none"> <li>Commissioning certificate issued for Group 'A' facilities on 11.12.15 w.e.f 02.12.15</li> <li>PG Certificate issued for Gr.A facilities on 12.03.16 w.e.f. 10.02.16</li> <li>PAC issued for Gr-B facilities on 14.1.17</li> <li>PAC Certificate for Group-B facilities issued on 17.12.16</li> <li>33kV Panel has been charged at Punabad substation through Sajara Punabad interconnector 1&amp;2</li> <li>Commissioning Certificate for Group-B facilities issued on 07.01.19 w.e.f 09.10.18</li> <li>PG certificate for Group B facilities issued on 18.11.19 w.e.f 29.07.19</li> </ul>	
30a	Interplant pipe line for fuel and industrial gases for Phase-I facilities	M/s Jain Infra Projects	20.86 22.96	5.47	28.04.11	Jul'12 (Contract terminated on 16.02.13)	<ul style="list-style-type: none"> <li>BE- 9/10 (0 %) submitted. DE- 54/75 (72 %) submitted.</li> <li>930/3000 cum RCC completed. All 21940 m equipment ordering completed. 2100T supplied. 477T erected</li> <li>Due to poor performance of contractor, Risk Purchase Notice was issued.</li> <li>Contract terminated. Order was placed on M/s Stewarts and Lloyds of India Ltd. on 16.02.13 on <b>Risk Purchase basis.</b></li> </ul>	
30b	Balance work of Interplant pipe line for fuel and industrial gases for Phase-I facilities	M/s Stewarts and Lloyds of India Ltd.	20.00 23.02	21.03	28.04.13	Nov'13 (Dec'15)	<ul style="list-style-type: none"> <li>PAC for completed system has been issued on 15.10.15</li> <li>Commissioning Certificate has been issued w.e.f. 03.12.15</li> </ul>	
31	1400 HP Locomotive (2 nos.)	M/s Diesel Locomotive Works, Varanasi	17.52	17.52	10.06.11	Dec'12 (Mar'13)	<ul style="list-style-type: none"> <li>LOA issued on 10.06.11</li> <li>2 nos. Locos supplied and commissioned.</li> <li>Commissioning Certificate has been issued w.e.f. 01.03.13</li> </ul>	
32	Augmentation of Railway Tracks for phase-I facilities	M/s Allied Infra, Bhartia Infra and Sahil projects	25.75 26.44	25.45	30.07.11	Jul'12 (Dec'15)	<ul style="list-style-type: none"> <li>Construction of culvert for interconnecting rail track between hot metal and slag side of BF-4 is completed &amp; laying of rail tracks in MSM, BRC, ACVS, BF#4 &amp; CCP area has been completed and put in operation.</li> <li>Commissioning Certificate for the package has been issued w.e.f 28.12.15.</li> </ul>	
33a	New Compressed Air Station for phase-1  3 units of 7500 Nm <sup>3</sup> /hr (2W+1S)	M/s Jain Infra	12.96 13.93	0.73	02.08.11	Oct'12 (Contract terminated on 29.03.13)	<ul style="list-style-type: none"> <li>Contract signed on 11.11.11; Kick of meeting held on 25.11.11</li> <li><b>RPN notice issued to M/s JIL on 09.11.12.</b> NIT issued on 09.01.13. Offers were received from i) M/s Stewarts &amp; Lloyds India Ltd., ii) M/s Blue Star Ltd., iii) M/s BOC India Ltd., iv) M/s Supreme Infrastructure India Ltd., &amp; v) M/s Ingersoll Rand.</li> <li><b>Order placed on 29.03.13 on M/s Blue Star on Risk Purchase basis.</b></li> </ul>	

Sl.	Package	Party	Cost in Rs. Cr. NoC (FE) Gross	Expenditure upto Sep'2020 Rs. Cr.	Eff. Date of Contract	Contractual Schedule (Likely/ Actual)	Status  DSP
33b	Balance work of New Compressed Air Station for phase-1	M/s Blue star.	16.52 18.61	16.31	28.04.13	May'14 (Dec'14)	<ul style="list-style-type: none"> <li>▪ Trial run of 1<sup>st</sup> compressor, 2<sup>nd</sup> compressor &amp; air dryer successfully completed on 4.12.14, 10.12.14 &amp; 10.12.14 respectively.</li> <li>▪ Compressed air charged on 16.12.14</li> <li>▪ Unit is in operation.</li> <li>▪ PAC has been issued w.e.f on 29.01.15</li> <li>▪ Commissioning Certificate for the facility has been issued on 31.5.15.</li> </ul>
34	Gas mixing and boosting stations 9000Nm <sup>3</sup> /hr (min.) to 45000Nm <sup>3</sup> /hr (BF+ CO / BF+ CBM / BF + Propane)	M/s TLT Engineers India	14.44 15.31	14.84	19.10.11	Sep'12 (Nov'15)	<ul style="list-style-type: none"> <li>▪ PAC has been issued w.e.f on 08.12.14</li> <li>▪ Commissioning Certificate for the facility has been issued w.e.f 7.11.2015.</li> </ul>
35	Propane Storage & Handling facilities (2x200t)	M/s Globe Gas Equipment Industry (P) Ltd.	10.72 11.37	10.81	09.12.11	Dec'12 (Jul'15)	<ul style="list-style-type: none"> <li>▪ Final inspection of fire-fighting pump of LPG by Chief Controller of Explosives of PESO done on 21.04.15 and final license obtained on 24.04.15.</li> <li>▪ PAC has been issued w.e.f 14.4.15</li> <li>▪ Propane charged to B&amp;RC on 08.07.15.</li> <li>▪ Commissioning Certificate has been issued w.e.f 14.11.16</li> <li>▪ <b>Performance Guarantee Certificate issued w.e.f. 24.02.18.</b></li> </ul>
36	Supply of Bloom cars.	M/s Simplex Engineering & Foundry Works (P) Ltd – 22 Nos (27.7) & M/s HEC, HMBP- 10 Nos. (12.59)	39.96 44.79	44.69	18.02.13	Mar'15 (Sep'15)	<p><b>M/s Simplex (Scope 22+5 Bloom Cars):</b></p> <ul style="list-style-type: none"> <li>▪ Contract signed on 07.05.13</li> <li>▪ All 22 nos. Bloom cars (covered under original contract) commissioned.</li> <li>▪ Due to poor performance of M/s HEC, 5 nos. bloom cars from scope of M/s HEC were diverted to M/s Simplex Engg. &amp; Foundry Works on 22.01.15.</li> <li>▪ PAC for 5 nos. (diverted from M/s HEC scope) has been issued.</li> <li>▪ Commissioning Certificate for these 5 nos. Bloom cars have been issued on 25.9.15.</li> <li>▪ <b>PG certificate for all 27 Bloom Cars issued on 20.4.16.</b></li> <li>▪ <b>Final Acceptance certificate for all 27 Bloom cars has been issued w.e.f 30.5.2016</b></li> </ul> <p><b>M/s HEC:</b></p> <ul style="list-style-type: none"> <li>• Due to poor performance of M/s HEC, 5 nos. bloom cars from their scope were diverted to scope of M/s Simplex Engg. &amp; Foundry Works on 22.1.15</li> <li>▪ For all 5 nos. bloom cars the following have been issued: <ul style="list-style-type: none"> <li>- PAC - 7.1.15 (3 nos.) and 24.7.15 (2 nos.)</li> <li>- Commissioning certificate – 12.9.15</li> <li>- <b>PG Certificate – 20.4.16</b></li> <li>- <b>Final Acceptance Certificate – 31.6.16.</b></li> </ul> </li> </ul>
37	Fire Fighting System	M/s WPIL	18.18 19.22	17.49	28.05.13	Jan'14 (Nov'16)	<ul style="list-style-type: none"> <li>▪ Equipment supply completed (458T)</li> <li>▪ LPG pump house started supply of fire water to propane plant on manual mode</li> <li>▪ MSM pump house: started supply of fire water to MSM plant on auto mode</li> <li>▪ Automation work for LPG pump house completed.</li> <li>▪ Majority of Civil jobs completed, finishing job is in progress. Mechanical &amp; electrical work is in progress</li> <li>▪ PAC certificate LPG &amp; MSM has been issued w.e.f 8.10.15.</li> <li>▪ PAC for OCHP pump house has been issued w.e.f 22.7.15.</li> <li>▪ PAC for BRC Fire Water Pump house has been issued w.e.f 3.11.16.</li> <li>▪ Commissioning certificate issued <ul style="list-style-type: none"> <li>- for LPG Fire Water Pump house on 3.8.16</li> <li>- for BRC on 6.3.17</li> <li>- for MSM &amp; CCHP on 7.3.17.</li> </ul> </li> </ul>
38	Road Network for Phase-I facilities	M/s HSCL	29.35 (excluding	27.30	24.03.16 (LOA)	Mar'17	<ul style="list-style-type: none"> <li>▪ LOA issued on 24.03.2016 to M/s HSCL.</li> <li>▪ Contract between M/s HSCL &amp; DSP signed on 13.5.2016.</li> </ul>

Sl.	Package	Party	Cost in Rs. Cr. NoC (FE) Gross	Expenditure upto Sep'2020 Rs. Cr.	Eff. Date of Contract	Contractual Schedule (Likely/ Actual)	Status	DSP
			6.2 Cr of free issue of steel)			(May'18)	<ul style="list-style-type: none"> <li>▪ HSCL placed LOA on M/s Pobi Enterprises.</li> <li>▪ Original scope completed on 31.03.18.</li> <li>▪ Amendment order issued on 14.03.18. Work has been completed</li> </ul>	
39	Laboratory Facilities for MSM	M/s Zeal India Chemicals (21.97) M/s Batliboi Limited (4.24) M/s Metal Power Pvt. Ltd M/s Mukherjee Construction (10.95)	34.67  37.17	31.45	12.3.14	(Sep'17)	<ul style="list-style-type: none"> <li>▪ All 50 equipment supplied and erected at site.</li> <li>▪ Trial taken for 48 equipment. Trials of 2 equipment balance.</li> <li>▪ Erection of lift has been completed.</li> <li>▪ PAC issued on 5.9.17.</li> </ul>	
40	ERP connectivity for New Units of Durgapur Steel Plant	M/s DG Micropronix, P Ltd (3.59)  M/s J R component Enterprise Ltd. (0.7)	3.66	3.65	05.07.16	May'17 (Mar'17)	<ul style="list-style-type: none"> <li>▪ LOA placed to M/s Micropronix, P Ltd + M/s J R component Enterprise Ltd. on 10.06.16.</li> <li>▪ Kick off meeting held on 02.07.16.</li> <li>▪ PAC issued on 22.02.17.</li> <li>▪ Commissioning test of ERP system commenced from 16.03.17 and completed on 18.03.17.</li> <li>▪ Commissioning certificate issued w.e.f 18.03.17.</li> <li>▪ PG Certificate issued on 28.06.17</li> </ul>	



## RSP: Expansion of Rourkela Steel Plant

1. **'In-Principle' Approval** : May'07
2. **Cost** (Rs. in crore):
  - a) Indicative cost (May'07) : Rs.7,668crore (Net of Cenvat benefit of Rs.924 crore)  
FE component: Rs.1220 crore
  - b) Revised estimates (Jul'08) : Rs.12,313 crore(Net of Cenvat benefit of Rs.1,369 crore)
  - c) Revised estimates (Jun'09) : Rs.11,812 crore(Net of Cenvat benefit of Rs.1,110 crore)  
FE component: Rs.1,745.00crore
  - d) Revised Cost Estimate (Aug'19) : Rs.13,306.73 crore( Net of Cenvat of Rs.933.52 crore)  
FE component: Rs.Rs.2264.28 Crore
  - e) Expenditure (Till **Sep'2020**) : **Rs.13181.94 crore**
3. **Approved Schedule** : Mar'13  
Actual Completion : Dec'14\*  
\* Integrated process route in operation.

### 4. **Production (Mtpa)**

Item	Installed Capacity	Base case (2006-07)	After Expansion	Present Level
Hot Metal	2.000	2.12	4.50	4.50
Crude Steel	1.900	1.99	4.20	4.20
Saleable Steel	1.671	1.94	3.99	3.99

### 5. **Techno-economic Parameters**

Item	Base case (2006-07)	After Expansion
Coke/ Fuel Rate (Kg/thm)	577	392
BF Productivity (t/m3/d)	1.37	2.14
Specific Energy Consumption (GCal/tcs)	7.98	5.40
Manpower Productivity (tcs man/year)	148	267

### 6. **Facilities**

- MECON Ltd. is the Consultant for Iron & Steel zone, MN Dastur&Co for Rolling Mill zone, CET for COB-6 & New CCD and RITES for Railway Infrastructure.
- After review of the investment plan in Jun'08, SAIL Board decided to defer packages viz. Up-gradation of BF-1; new CRNO complex; New facilities in CRM complex and Modification of Finishing Stands of Hot Strip Mill. Also, after review of Jun'09, capacity of the new Plate Mill is envisaged at 1.0 Mtpa in current phase, with provision for expansion to 1.80 Mtpa.
- All major facilities have been completed as below:
  - ✓ New Sinter Plant-3 (1 x 360m<sup>2</sup>) in Apr'12
  - ✓ Augmentation of Ore Bedding & Blending Plant (to handle additional 7.0Mtpa of raw materials) in Apr'13
  - ✓ New Coke Oven Battery-6 (7 m tall & 1x67 ovens) Complex in Apr'13
  - ✓ New Blast Furnace-5 (4060m<sup>3</sup> useful volume) & associated facilities in Aug'13
  - ✓ 3<sup>rd</sup> Slab Caster (1x1,1.5 Mtpa) in Jun'13, 3<sup>rd</sup> BOF convertor (150t) in Jun'14; 3<sup>rd</sup> LF in Sep'14 and RH Degasser on 20.02.16 (in SMS-II)
  - ✓ New 4.3m wide Plate Mill (1.00 Mtpa in current phase, with provision for expansion to 1.80 Mtpa): Reheating Furnace in May'14, Rolling Facility in Jun'14 and Finishing Facilities in Mar'15

Also, linked facilities like 700 tpd Oxygen Plant and Simultaneous Blowing of Converters in SMS-II have been completed.

- **On 01.04.2015, Hon'ble Prime Minister dedicated the modernized Rourkela Steel Plant (RSP) of SAIL to the Nation.**

#### • **Closure of existing Units:**

1. BF- 2 ----- Sep'14
2. BF- 3 ----- May'16
3. COB-2 ----- Mar'16 (this is not in CPFR of MEP)

**Package-wise Details for Expansion of Rourkela Steel Plant**

Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP
1	<p>New OBBP &amp; Base Blending Facilities (To handle additional 7.0Mtpa of Raw Material requirement, Present requirements 5 Mtpa) <u>Change Orders</u></p> <p>a) No. 1: Rs.1.4 Cr. (net of cenvat) b) No. 2: Rs.1.1cr(net of cenvat) c) No. 3: Rs.35 cr. (net of cenvat)</p> <p><b>RPN</b></p> <ul style="list-style-type: none"> <li>▪ <u>General Civil Works, maintenance Access to Raw Material Yard on OBBP</u>- Job is completed on 09.11.2017 -Value Rs. 86,07,528.00</li> <li>▪ <u>Offline grinding machine - Automatic roll Grinding system for Roll Crusher for Turning Crusher roll</u> :Order Placed on 28.03.2017. The job is under progress - Value Euro 4,56,300 &amp; Rs.1,56,76,194</li> <li>▪ <u>Remote programming facility in Stacker Cum Reclaimer (SCR) and Anti Collision System</u> – order placed on 05.06.18 - Value .Rs. ~45 lakhs.</li> <li>▪ Maintenance Bay for barrel reclaimer- case retendered after RPN and order placed.</li> </ul>	HEC/ Shapoorji Pallonji	665.64  681.33 <u>Gross cost:</u> 726.55	686.68	12.08.08	Feb'11 (Apr'13)	<ul style="list-style-type: none"> <li>▪ <u>Certificates issued:</u> <ul style="list-style-type: none"> <li>✓ PAC (all seven P1-P7 routes): P1-P2 :07-08.08.13 P3: 30.08.13 P4 : 29.11.13 P5-P7: 16.07.14</li> <li>✓ Commissioning Certificate (P1-P4): 25.02.14</li> <li>✓ Commissioning Certificate (P5-P7): 12.03.15</li> </ul> </li> <li>▪ PG test conducted from 28.12.2015 to 29.02.2016 and PG test certificate issued on 20.06.16.</li> <li>▪ Certain supplies (Induction Heater), completion of FDA system under the package are yet to be completed by HEC&amp; consortium.</li> <li>▪ HEC/SPCL has submitted revised delay analysis in desired format, under process for approval.</li> <li>▪ Meanwhile proposal for acceptance of Corporate Guarantee (duly supported with a resolution of the Board of HEC) of Rs.4.42 crore in-lieu of BG has been accepted by SAIL</li> <li>▪ PBG amount of Rs.19.68crore has been released in Nov'16.</li> <li>▪ Delay analysis completed and amendment letter to the contract issued to the consortium on 10.07.17.During the meeting on 16.02.2018 &amp; 17.02.2018 HEC was informed that the Delay analysis was done based on records. They did not accept the analysis and amendment order issued for time period of the contract.</li> <li>▪ To resolve the various issues, a committee has been constituted comprising members from HEC &amp; RSP.</li> </ul>
2	<p>New Coal Handling Plant <u>Additional Work</u></p> <p>a) For additional piles in CHP area change order on MBE for Rs. 2.6 crore (net of cenvat) b) Change order: 2 nos. pit-less in-motion weigh bridge on MBE for Rs. 0.8 crore (net of cenvat)</p>	McNally Bharat Engg.	306.45  319.26 <u>Gross cost:</u> 332.91	333.04	09.12.09	Dec'11 (Apr'13)	<ul style="list-style-type: none"> <li>▪ <u>Certificates issued</u> <ul style="list-style-type: none"> <li>✓ PAC : Nov'13</li> <li>✓ PG test: 12-26.05.14</li> <li>✓ <b>FAC: 24.07.18</b></li> </ul> </li> <li>▪ In Mar'14, a crack was noticed in coal silo no. E-5 (one out of total 30 nos. silos, each 42 m high and 12 m dia free-standing concrete structure, having 300 mm thick wall) located at about 14 m above the GL. Repair work completed in Oct'15.</li> </ul>
	<b>COB-6 Complex</b>						
3	<p>Installation of 7m tall New Coke Oven Battery-6 (7m tall ,67 ovens) Gross coke (dry): 0.768 Mtpa (90 ovens per day)</p>	Mecon Ltd.	373.22  392.79 <u>Gross cost:</u> 399.15	382.38	06.08.08	Feb'11 (Apr'13)	<ul style="list-style-type: none"> <li>▪ Battery under fired: 10.01.13</li> <li>▪ First oven pushed: 12.04.13.</li> <li>▪ PAC: 27.08.13</li> <li>▪ Commissioning certificate: 02.02.15w.e.f. 14.04.2013</li> <li>▪ PG test : 21.03.18 – 27.03.18</li> <li>▪ Cumulative since inception: 2,18,099 nos., this includes:</li> </ul>

Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP																								
							<ul style="list-style-type: none"> <li>▪ Oven pushed in 2013-14: 21,889 nos.</li> <li>▪ Oven pushed in 2014-15:24,815 nos.</li> <li>▪ Oven pushed in 2015-16: 27,411nos.</li> <li>▪ Oven pushed in 2016-17: 32,078 nos.,</li> <li>▪ Oven Pushed in 2017-18: 32,220nos.</li> <li>▪ Oven pushed in 2018-19 :32,340 nos.</li> <li>▪ Oven pushed in 2019-20 : 32,598</li> <li>▪ Oven pushed in 2020-21 : 14,748 nos., this includes(nos.) :</li> </ul> <table border="1" style="margin-left: 20px;"> <tr> <td>Apr</td> <td>2092</td> <td>Oct</td> <td></td> </tr> <tr> <td>May</td> <td>2078</td> <td>Nov</td> <td></td> </tr> <tr> <td>Jun</td> <td>2224</td> <td>Dec</td> <td></td> </tr> <tr> <td>Jul</td> <td>2749</td> <td>Jan</td> <td></td> </tr> <tr> <td>Aug</td> <td>2843</td> <td>Feb</td> <td></td> </tr> <tr> <td>Sep</td> <td>2762</td> <td>Mar</td> <td></td> </tr> </table>	Apr	2092	Oct		May	2078	Nov		Jun	2224	Dec		Jul	2749	Jan		Aug	2843	Feb		Sep	2762	Mar	
Apr	2092	Oct																													
May	2078	Nov																													
Jun	2224	Dec																													
Jul	2749	Jan																													
Aug	2843	Feb																													
Sep	2762	Mar																													
4	Oven Machines for COB-6 (Coke pusher cars, coke charging cars, coke transfer cars-2 each)	BEC/KBK	88.05 (0.15)  92.85 <u>Gross cost:</u> 95.43	86.84	26.08.08	Aug'10 (Apr'13)	<ul style="list-style-type: none"> <li>▪ Under operation : since 12.04.13</li> <li>▪ PEC System also completed subsequently.</li> <li>▪ PAC -02.04.13</li> <li>▪ Commissioning: 05.12.14</li> <li>▪ PG : 01.08.16</li> <li>▪ <b>FAC issued: 08.04.18</b></li> </ul>																								
5	Installation of new Coke Dry Cooling Plant for COB-6 (4 Chambers (2 W+1 hot reserve + 1 repair & maintenance) Boiler Module Capacity- 50tph Coke Cooling Capacity- 100tph Cycle time- 9 minutes)	BEC/ Giprokoks/CUI	344.42 (43.15)  368.69  <u>Gross cost:</u> 385.91	393.48	26.08.08	Dec'10 (3module s: Apr'13 4 <sup>th</sup> module - Jan'14)	<ul style="list-style-type: none"> <li>▪ 3 modules: Apr'13</li> <li>▪ Module-4: 10.01.14.</li> <li>▪ In Module-3, explosion in Mar'14had damaged the pipelines and boiler. Repair job completed by May'15.</li> <li>▪ PAC -02.04.13</li> <li>▪ Commissioning: 08.06.14</li> <li>▪ PG : 24.11.16</li> <li>▪ <b>FAC: 02.05.18</b></li> </ul>																								
6	Silica Bricks for COB-6	OCL	42.52 <u>Gross cost:</u> 50.33	44.38	02.08.08	Aug'09 (Aug'11)	<ul style="list-style-type: none"> <li>▪ Total 14,711T recd.</li> </ul>																								
7	Fire Clay and Insulation Bricks for COB-6 Additional work Rs. 2.4 crore (net of cenvat)	Multiple parties	4.08 <u>Gross cost:</u> 4.25	6.53	02.08.08	Oct'09 (Dec'11)	<ul style="list-style-type: none"> <li>▪ Total 7,782 T recd.</li> </ul>																								
8	New CCD Plant for COB-6	Sriram EPC/ Hutni Projects, Czeck Republic	280.05 (33.33)  297.33 <u>Gross cost:</u> 322.18	292.63	01.10.08	Feb'11 (Apr'13 BRP- Dec'14 HRP- Feb'15)	Under operation.																								
9	Upgradation of Existing CCD		141.35  146.16																												

Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP																								
			<u>Gross cost:</u> 147.74	149.02																											
i.	Ammonia Liquor Treatment Plant & Ammonium Sulphate Plant	Sriram EPC	48.93		14.10.08	Apr'10 (Aug'14)	<ul style="list-style-type: none"> <li>CC issued on 25.08.14.</li> <li><b>FAC: 12.04.18</b></li> </ul>																								
ii.	Primary Gas Pre-cooler , Decanter & Pit tank (GPC - 6 nos., Pit Tank - 2 nos. and Decanter - 2 nos.) <u>Additional Work</u> For tar removal around decanter- Rs.0.0269 crore (net of cenvat)	Bengal Tools	34.56		23.10.08	Oct'10 (Apr'13)	<ul style="list-style-type: none"> <li>Commissioned.</li> <li><b>FAC : 15.03.18</b></li> </ul>																								
iii.	Knock-out Pots  (Retendered after RPN)	IMECO  Bhilai Techneeds	18.09  7.14		01.11.08  09.11.11	Apr'10  May'12 (Aug'14)	<ul style="list-style-type: none"> <li>All site activities stopped as time validity expired on 30.07.11. RPN issued to M/s Imeco and retendered.</li> <li>LOI placed on M/s Bhilai Techneeds on 09.11.11 (Rs.7.14 cr.) Effective date of Contract was 14.12.11.</li> <li>Air Load Test of Booster-4 &amp; Booster-5 completed successfully.</li> </ul>																								
iv.	Electrostatic Tar Precipitator 1.0 MT - 6 nos. ETP 1.8 MT - 4 nos. ETP	Thermax	15.10 (0.97)		11.12.09	Sep'11 (Aug'14)	<ul style="list-style-type: none"> <li>All 10 nos. ETPs (6 nos. in 1.0MT + 4 nos. in 1.8MT) commissioned.</li> <li>PG Test conducted for 4 nos. ETPs at 1.8 MT area.</li> <li><b>FAC: 26.07.16</b></li> </ul> <table border="1"> <thead> <tr> <th>ETPs</th> <th>PAC</th> <th>Commissioning</th> <th>PG</th> </tr> </thead> <tbody> <tr> <td>1A - 1B</td> <td>12.06.2012</td> <td>12.06.2012</td> <td>29.05.2015</td> </tr> <tr> <td>1C - 1D</td> <td>11.02.2013</td> <td>15.02.2013</td> <td>29.05.2015</td> </tr> <tr> <td>1E - 1F</td> <td>03.03.2014</td> <td>08.03.2014</td> <td>29.05.2015</td> </tr> <tr> <td>2A - 2B</td> <td>10.05.2012</td> <td>10.05.2012</td> <td>31.03.2014</td> </tr> <tr> <td>2C - 2D</td> <td>20.11.2012</td> <td>24.11.2012</td> <td>31.03.2014</td> </tr> </tbody> </table>	ETPs	PAC	Commissioning	PG	1A - 1B	12.06.2012	12.06.2012	29.05.2015	1C - 1D	11.02.2013	15.02.2013	29.05.2015	1E - 1F	03.03.2014	08.03.2014	29.05.2015	2A - 2B	10.05.2012	10.05.2012	31.03.2014	2C - 2D	20.11.2012	24.11.2012	31.03.2014
ETPs	PAC	Commissioning	PG																												
1A - 1B	12.06.2012	12.06.2012	29.05.2015																												
1C - 1D	11.02.2013	15.02.2013	29.05.2015																												
1E - 1F	03.03.2014	08.03.2014	29.05.2015																												
2A - 2B	10.05.2012	10.05.2012	31.03.2014																												
2C - 2D	20.11.2012	24.11.2012	31.03.2014																												
v.	Gas Booster	SBW, China	13.54 (10.12)		30.10.08	Apr'10 (Aug'14)	<ul style="list-style-type: none"> <li>Booster-4 &amp; Booster-5 commissioned successfully and are under operation.</li> <li>PAC issued for Gas Boosters on 29.10.14.</li> <li>Commissioning : 09.07.2015</li> <li><b>FAC:14.03.18</b></li> </ul>																								
vi.	Electrical package	Servomax	4.45		31.10.08	Apr'10 (Aug'14)	<ul style="list-style-type: none"> <li>PAC : 21.12.2012</li> <li>PAC points liquidated &amp; PAC payment made. Commissioning certificate issued on 22.09.14.</li> <li>PG: 19.09.2015</li> </ul>																								
vii.	Instrumentation package	New Era Control	1.97		12.11.08	Apr'10 (Jun'14)	<ul style="list-style-type: none"> <li>PAC: 31.05.2013</li> <li>PAC points liquidated &amp; PAC payment already made.</li> <li>Commissioning: 05.02.14, certificate issued on 05.06.2014.</li> <li>PG : 30.03.2015</li> <li><b>FAC:18.09.15</b></li> </ul>																								
viii.	Hoist & Handling Facility	Grip Engrs.	1.76		16.10.08	May'09 (Jan'12)	<b>Completed.</b>																								

Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP																								
ix.	Civil & Structural Works	Steel construction	1.52		18.09.08	Jan'09 (Dec'10)	PAC: 24.07.2013 Completed. FAC: 26.04.17																								
x.	Electrically Operated Gas Valves (Supply package) <u>Additional Work</u> Change order for rectification & Re-conditioning of valves- Rs.0.17 crore (net of cenvat)	Fouress	0.87		16.10.08	May'09	Completed.																								
xi.	Air Conditioning & Ventilation System	Batlboi	0.37		19.09.08	Mar'09 (Jun'15)	Remaining job retendered to M/s S K Enterprises on 22.07.13. All 3 nos. package A/Cs commissioned.																								
10	New Sinter Plant-3 (1x360 m <sup>2</sup> ) gross sinter: 3.706 Mtpa (11,230 tpd)  <u>Additional Work</u> For additional civil work change order placed on L&T for Rs. 2.7 crore (net of cenvat)	Outotec/ L&T	688.11 (146.65)  754.27 <u>Gross cost:</u> 840.35	794.78	05.09.08	Mar'11 (Apr'12)	<ul style="list-style-type: none"> <li>• SP-3 under operation since 01.04.12</li> <li>• PAC issued: 09.07.12</li> <li>• Commissioning certificate: 21.04.14</li> <li>• PG test: 03.05.15, PG test certificate: 05.08.15</li> <li>• Highest production since inception-11,145T on 25.6.15</li> <li>• Cumulative production since inception: 2,22,42,819 T this includes : <ul style="list-style-type: none"> <li>• Production in 2012-13: 2,95,441T</li> <li>• Production in 2013-14 :12,77,180T</li> <li>• Production in 2014-15: 24,29,539T</li> <li>• Production in 2015-16 :29,16,044T</li> <li>• Production in 2016-17: 32,03,300T</li> <li>• Production in 2017-18: 33,10,758 T</li> <li>• Production in 2018-19 : 35,32,982T</li> <li>• Production in 2019-20 : 3,548,485T</li> <li>• Production in 2020-21 : 17,29,090 T this includes (T)</li> </ul> </li> </ul> <table border="1"> <tr><td>Apr</td><td>237,035</td><td>Oct</td><td></td></tr> <tr><td>May</td><td>240,798</td><td>Nov</td><td></td></tr> <tr><td>Jun</td><td>302,189</td><td>Dec</td><td></td></tr> <tr><td>Jul</td><td>319,278</td><td>Jan</td><td></td></tr> <tr><td>Aug</td><td>327,365</td><td>Feb</td><td></td></tr> <tr><td>Sep</td><td>3,02,425</td><td>Mar</td><td></td></tr> </table>	Apr	237,035	Oct		May	240,798	Nov		Jun	302,189	Dec		Jul	319,278	Jan		Aug	327,365	Feb		Sep	3,02,425	Mar	
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	<b><u>New BF-5 Complex</u></b>																														
11	New Blast Furnace-5 (Useful volume: 4060 m <sup>3</sup> , Production per day: 7924 (avg.), 8320 (max.) Annual hot metal production : 2.8 Mtpa) <u>Additional Work</u> Change order-1, 2 nos. static torpedo ladle weigh bridge on TPL	Danieli Corus/ Tata Projects Ltd.	1577.76 (432.43)  1659.30  <u>Gross cost:</u> 1863.41	1665.81	02.10.08	Apr'11 (Aug'13 PCI-Jul'14 &TRT- Nov'14)	<ul style="list-style-type: none"> <li>• PAC (total 23 units) issued: Jun'13-Sep'14</li> <li>• BF-5 blown-in: 05.08.13</li> <li>• First hot metal tapping: 16.08.13.</li> <li>• Coal grinding started: 08.06.14</li> <li>• PCI started: 07.07.14</li> <li>• TRT started: 06.11.14</li> <li>• TRT production 13-14 MW (average).</li> <li>• Commissioning Certificate: 17.10.14</li> <li>• PG test: 15-19.09.15</li> </ul>																								

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	for Rs.3.0 crore (net of cenvat)						<ul style="list-style-type: none"> <li>Highest production since inception – 9245 on 25.05.18.</li> <li>Cumulative production since inception: 1,65,25,046 T this includes: <ul style="list-style-type: none"> <li>Production in 2013-14: 8,08,081T</li> <li>Production in 2014-15 : 17,71,386T</li> <li>Production in 2015-16: 21,11,459T</li> <li>Production in 2016-17: 2,758,439T</li> <li>Production in 2017-18: 25,52,538 T</li> <li>Production in 2018-19 : 27,10,467T</li> <li>Production in 2019-20: 2,577,386 T</li> <li>Production in 2020-21: 12,35,290 T this includes (T)</li> </ul> <table border="1"> <tr> <td>Apr</td> <td>166,239</td> <td>Oct</td> <td></td> </tr> <tr> <td>May</td> <td>165,609</td> <td>Nov</td> <td></td> </tr> <tr> <td>Jun</td> <td>198,960</td> <td>Dec</td> <td></td> </tr> <tr> <td>Jul</td> <td>239,622</td> <td>Jan</td> <td></td> </tr> <tr> <td>Aug</td> <td>244,365</td> <td>Feb</td> <td></td> </tr> <tr> <td>Sep</td> <td>220,495</td> <td>Mar</td> <td></td> </tr> </table> </li> <li>The Consortium has filed Arbitration in ICC on 6.10.16 against their extra claims. Matter is being looked into by Corporate Law.</li> <li><b>Status of Arbitration:</b> M/s Danieli &amp; TPL (Consortium Partner) invoked the arbitration clause as per the contract, under the aegis of ICC for a claim of – Rs.411.52 crore&amp; Euro 1,73,00,048along with @18% interest in Oct'16. SAIL/RSP also filed a counter claim against the parties for dismissal of their claim and pass an award in favour of SAIL/RSP for Rs 211.7927 crore along with @18% interest. Matter was argued before the Arbitral Tribunal consisting of 3 Arbitrators. Vide majority award dated 16<sup>th</sup> May'17, the following reliefs have been awarded to the claimant: <ul style="list-style-type: none"> <li><b>To first claimant i.e. TPL</b> <ul style="list-style-type: none"> <li>Rs 325.7640932 crore and Euro 261,600</li> <li>Costs amounting to Rs 3.8611086 crore and USD 125,000</li> <li>Pre award interest on awarded amount and cost amounting to Rs 113.8804818 crore and Euro 125,090 @18% p.a.</li> </ul> </li> <li><b>To second Claimant i.e. Danieli Corus B.V (DC)</b> <ul style="list-style-type: none"> <li>Euro 16,633,672</li> <li>Cost of arbitration amounting to Euro 95,769 and USD 89,446</li> <li>Pre award interest on awarded amount and cost amounting to Euro 53,075,56 @18% p.a.</li> </ul> </li> </ul> <p>Further, the claimant has been awarded Post award interest @18% p.a. from the date of the award till the date of actual payment.</p> <p>Vide the same award the counter claim of SAIL/RSP has been disallowed.</p> </li> </ul>	Apr	166,239	Oct		May	165,609	Nov		Jun	198,960	Dec		Jul	239,622	Jan		Aug	244,365	Feb		Sep	220,495	Mar	
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							The Award of the Tribunal has been challenged in Delhi High Court and case is under progress.  For out of court settlement, a higher level SAIL committee has been constituted.
12	Torpedo Ladles & Repair Shop for BF-5 (10nosx350 t) <u>Additional Work</u> <ul style="list-style-type: none"> <li>Change order for 2 nos., TLC for BF-5- Rs.18 crore (net of cenvat)</li> <li>Change order for reconditioning of TLC No. 10 – Rs.2 crore (net of cenvat)</li> </ul>	Simplex Casting Ltd./ Hyundai, Korea	75.18 (16.27)  91.68  <u>Gross cost:</u> 94.6	83.40	19.08.08	Apr'10 (Aug'13)	<ul style="list-style-type: none"> <li>PAC issued: 03.05.14</li> <li>Operation of BF-5 in Aug'13 was started with 6 nos. torpedoes.</li> <li>Presently, all 10 TLC's are in operation.</li> <li>Commissioning Certificate: 07.03.15</li> </ul>
13	Pig Casting Machine or BF-5 (Continuous, double strand. 150 t/h per PCM (75 t/h per strand) <u>Additional Work</u> Change order for hot metal dumping pit- Rs. 0.4 crore (net of cenvat)	METCO, Kolkata	42.69  43.29 <u>Gross cost:</u> 46.54	45.35	12.08.08	Aug'10 (Apr'13)	<ul style="list-style-type: none"> <li>PAC issued: 03.07.13</li> <li>Commissioning certificate: 13.05.14</li> <li>PG test: 07-09.05.15</li> <li>PG certificate: 05.10.15</li> <li><b>FAC issued : 17.11.2017</b></li> </ul>
14	Boilers, Steam TGs, BPTG & Balance of Plant for BF-5 (3x100 t/h BF Gas Fired Boilers, 2x18 MW Steam Turbo Generator, 1x6.5 MW Back Pressure Turbo Generator)  <u>Additional Work</u> Change order for following work on Thermax for Rs.10.90 crore (net of cenvat) <ul style="list-style-type: none"> <li>Modification of DM water/condensate system of PBS</li> <li>Air drier &amp; high velocity water spray</li> </ul>	Thermax	383.26  438.61  <u>Gross cost:</u> 461.81	398.41	12.08.08	Aug'10 (Jul'13)	<ul style="list-style-type: none"> <li>PAC: 03.07.13</li> <li>Steam TurboG-1: Sep'13</li> <li>Steam TG-2: Nov'13</li> <li>BPTG: Feb'14</li> <li>Commissioning certificate: 21.03.14 w.e.f. 15.03.14</li> <li>PG test: 09.11.15</li> <li>PG test certificate: 29.12.15</li> <li><b>FAC issued</b></li> </ul>
15	Turbo Blowers (3 nos.) Station for BF-5  (Air blast requirement to BF-5- Max flow- 7000 Nm3 /min Normal flow- 5,500 Nm3 /min)  <u>Operating parameter of each blower:</u> (discharge flow : 3500 -2550 Nm3/min)	BHEL	322.93 (100.26)  337.03  <u>Gross cost:</u> 370.42	338.44	29.08.08	May'11 (TB1:Apr'13, TB2:Jun'13, TB-3:Apr'14)	<ul style="list-style-type: none"> <li>PBS, comprising of Boilers &amp; Turbo-blowers, was inaugurated by Chairman on 25.04.14.</li> <li>PAC issued: 26.07.14</li> <li>Commissioning certificate: 28.02.15 w.e.f. 05.01.15.</li> <li><b>FAC issued; 24.02.18</b></li> </ul>

Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP
	<b>SMS Complex</b>						
16	Civil Works for BOF & CCP <u>Additional work</u> a) Change order on Simplex Infra for Rs. 11.3 crore (net of cenvat) b) Additional quantities for civil works in SMS II- Rs.51.8 crore (net of cenvat) c) Civil change order for SMS-II: Rs.20 crore (net of cenvat)	Simplex Infra Ltd.	122.11  234.78 <u>Gross cost:</u> 237.28	234.33	08.08.08	Feb'10 (For Caster- Jun'13, For BOF- Jun'15)	<ul style="list-style-type: none"> <li>• For WTP-3, meant for BOF, SIL off-loaded civil work to M/s Unistar.</li> <li>• PAC : 19.03.15</li> <li>• <b>FAC: 19.03.15</b></li> </ul>
17	Structural Works for BOF <u>Additional work</u> Change order of Rs.16.48 crore (net of cenvat credit of Rs.1.65 crore)	KCS Pvt. Ltd.& consortium	20.48 21.67 <u>Gross cost:</u> 24.43	39.47	05.08.08	Feb'10 (Jun'15)	<ul style="list-style-type: none"> <li>▪ Completed.</li> <li>▪ PAC : 10.07.15</li> <li>▪ <b>FAC: 16.05.16</b></li> </ul>
18	Structural Works for CCP	Shapoorji Pallonji	132.99  135.99 <u>Gross cost:</u> 144.05	123.35	11.08.08	Feb'10 (Jun'15)	<ul style="list-style-type: none"> <li>▪ Completed.</li> <li>▪ PAC : 24.07.15</li> <li>▪ <b>FAC: 12.07.16</b></li> </ul>
19	New Lime Calcining Plant (2x350 tpd)One limestone, one dolomite kiln	FL Smidth & Cimprogetti Spa, Italy	93.99 (11.59)  99.88 <u>Gross cost:</u> 107.15	93.57	06.02.10	Feb'12 (Kiln- 5:Oct'14 Kiln- 6:Aug'15)	<ul style="list-style-type: none"> <li>▪ <u>Kiln-5</u> : <ul style="list-style-type: none"> <li>➤ Charging: 27.09.14</li> <li>➤ Hot trial: 15.10.14</li> <li>➤ However, after some time, refractory bricks were seen coming out with lime and a red spot was observed in the kiln. Damage to the insides of kiln was repaired by 08.12.14 and Kiln was lighted-up again on 16.12.14. It is under regular production since 22.12.14.</li> </ul> </li> <li>▪ <u>Kiln-6</u>: <ul style="list-style-type: none"> <li>➤ Charging:13.08.15</li> <li>➤ Hot trial:21.08.15</li> </ul> </li> <li>▪ PAC &amp; commissioning done.</li> <li>▪ <b>FAC issued.</b></li> </ul>
20a	EOT Cranes (9 nos. < 100T) for BOF & CCP	Anupam Industries/ JSB	54.82  54.82 <u>Gross cost:</u> 62.11	144.85	30.09.08	Sep'10 (Jun'15)	<ul style="list-style-type: none"> <li>▪ Under operation.</li> <li>▪ PAC &amp; commissioning done.</li> </ul>
20b	EOT Cranes (5 nos. > 100T) for BOF & CCP (4 nos.:2x250T & 2x100T in BOF and 1x120T in CCP) <u>Additional Work</u> a) Change order -1 DSL along with feeding system in DE bay, LM bay, MSRS bay at SMS-II	Taiyuan Heavy Ind./ Vazant Ent., Thane	68.90 (55.26)  83.16 <u>Gross cost:</u> 95.88		23.04.10	Apr' 12 (Feb'14)	<ul style="list-style-type: none"> <li>▪ Under operation.</li> <li>▪ PAC issued: 23.12.13</li> <li>▪ Commissioning done.</li> </ul>



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	on Vazant for Rs.0.7 cr. (net of cenvat) b) Change order -2, DSL feeding cable from new crane S/S in SMS area on Vazant for Rs.3.5 cr. (net of cenvat)																														
21	3 <sup>rd</sup> BOF Converter (BOF) (1X150 t) (Liquid Steel: 1.584 Mtpa No. of heats per day: 32 (average) )  <u>Additional work</u> For Balance work (Pedestal, drive base frame etc.) on SMS Siemag for Rs.6.1 cr. (net of cenvat)	SMS Siemag/SMS India	328.91 (115.99)  399.64  <u>Gross cost:</u> 430.77	390.25	08.01.10	May'12 (Jun'14)	<ul style="list-style-type: none"> <li>PAC issued: 31.05.14</li> <li>First heat: 03.06.14/ C-shift</li> <li>Inaugurated by the Chairman on 06.06.14.</li> <li>Commissioning certificate: 02.07.15</li> <li>PG test for Functional Unit-1 i.e. 3rd BOF was conducted on 28-29.04.16</li> <li>Highest heats since inception-785 nos in Aug'2020</li> <li>Cumulative heat since inception: 35,862 nos. this includes: <ul style="list-style-type: none"> <li>Heats taken in 2014-15: 3,463 nos.</li> <li>Heats taken in 2015-16: 4,548nos.</li> <li>Heats taken in 2016-17:5,681 nos.</li> <li>Heats taken in 2017-18:5,865nos.</li> <li>Heats taken in 2018-19: 6684 nos.</li> <li>Heats taken in 2019-20 : 6636 nos</li> <li>Heats taken in 2020-21 : 2985 nos. this includes (nos.): <table border="1"> <tr> <td>Apr</td> <td>183</td> <td>Oct</td> <td></td> </tr> <tr> <td>May</td> <td>507</td> <td>Nov</td> <td></td> </tr> <tr> <td>Jun</td> <td>134</td> <td>Dec</td> <td></td> </tr> <tr> <td>Jul</td> <td>755</td> <td>Jan</td> <td></td> </tr> <tr> <td>Aug</td> <td>785</td> <td>Feb</td> <td></td> </tr> <tr> <td>Sep</td> <td>621</td> <td>Mar</td> <td></td> </tr> </table> </li> </ul> </li> </ul>	Apr	183	Oct		May	507	Nov		Jun	134	Dec		Jul	755	Jan		Aug	785	Feb		Sep	621	Mar	
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22	3 <sup>rd</sup> Ladle Furnace (1X150 t) (Annual treatment capacity:1.44 Mtpa No. of heats: 30 per day)	Saralle, Spain	39.07 (16.16)  39.65 <u>Gross cost:</u> 42.07	43.31	13.08.09	Sep'11 (Sep'14)	<ul style="list-style-type: none"> <li>PAC done.</li> <li>First heat taken on 15.09.14.</li> <li>Under regular operation.</li> <li>Commissioning done.</li> </ul>																								
23	New RH Degasser (1x150t) (Annual treatment capacity:1 Mtpa No. of heats: 24 per day)	Siemens VAI	63.43 (23.95)  66.29 <u>Gross cost:</u> 72.68	74.37	16.07.10	Jul'12 (Feb'16)	<ul style="list-style-type: none"> <li>On 25.09.15, during trial by Siemens VAI, the RH travel cage hit the upper fixed supporting steel structure. Due to this, the pulley structure sheared out of the pulley supporting girder and complete travel cage along with vessel fell down into the empty ladle which was placed in the treatment position. This caused damage of travel cage with installed equipment &amp; vessel, including the instruments and ladle transfer car. Repair work completed.</li> <li>Hot trial done on 20.02.16, under operation.</li> <li>PAC issued in Feb'16, commissioning test done successfully on 18.05.16 and commissioning certificate issued on 30.06.16, w.e.f. 18.05.16.</li> <li>PG test done on 22.03.18.</li> <li>Contract closed 28.09.2020.</li> </ul>																								



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27	BOF Shop Platforms, Bunkers, Pipe Supporting Structures and Other Facilities	HSCCL	27.02 <u>Gross cost:</u> 27.02	26.25	18.01.12	Sep'12 (Jun'15)	<ul style="list-style-type: none"> <li>▪ Completed.</li> <li>▪ PAC : 21.07.15</li> <li>▪ <b>FAC: 17.06.16</b></li> <li>▪ <b>Contract closed</b></li> </ul>
	<b><u>New Plate Mill Complex</u></b>						
28	Piling Works for New Plate Mill	Simplex Infra Ltd.	63.27 (Incl. free issue of steel cost- Rs. 9.49 cr.)  26.43  <u>Gross cost:</u> 26.98	28	10.08.10	Sep'11 (Apr'12)	<ul style="list-style-type: none"> <li>▪ Completed.</li> <li>▪ PAC done.</li> </ul>
29	Civil Works for New Plate Mill	ShapoorjiPallo nji	273.57 (Including free issue of steel cost- Rs. 97.42 cr.)  330.46 <u>Gross cost:</u> 330.93	325.09	18.01.11	Jan'13 (Jun'15)	<ul style="list-style-type: none"> <li>▪ For Accelerated Cooling System, cooling bed-1, cold plate leveler, Dividing Shear, Double Side Trimming Shear, flame cutting machine &amp; plate marking machine, primary inspection bed all civil work completed.</li> <li>▪ PAC done.</li> <li>▪ <b>FAC issued.</b></li> </ul>
30	Structural Works for New Plate Mill	Simplex Infra Ltd.	216.15 (Including free issue of steel cost- Rs. 143.01 cr.)  262.12 <u>Gross cost:</u> 262.42	189.36	21.01.11	Dec'12 (Jun'15)	<ul style="list-style-type: none"> <li>▪ Major work completed.</li> <li>▪ For cold plate leveller, accelerated cooling system, cooling bed-1, dividing shear, Double Side Trimming Shear &amp; plate marking machine all structural work completed.</li> <li>▪ PAC done.</li> <li>▪ <b>FAC issued.</b></li> </ul>
31	Slab Reheating Furnace for New Plate Mill (One 225 t/h Walking beam type, top & bottom fired)	Tenova Spa, Italy	83.27 (28.12)  91.95 <u>Gross cost:</u> 104.43	98.89	20.08.10	Aug'12 (Jun'14)	<ul style="list-style-type: none"> <li>▪ PAC issued: 08.08.14</li> <li>▪ Reheating Furnace lighted-up: 12.05.14. First 2 slabs were discharged for rolling on 26.05.14/ morning &amp; on 27.05.14, some problem occurred.</li> <li>▪ Furnace was started again on 02.06.14.</li> <li>▪ Commissioning done.</li> </ul>
32	Rolling Facilities for New Plate Mill (4-Hi reversing Roughing Mill Stand- 920,000 tpa of plates) (3,067 tpd)	Danieli & C	731.90 (467.70)  814.07  <u>Gross cost:</u> 929.30	800.02	17.08.10	Feb'13 (Jun'14)	<ul style="list-style-type: none"> <li>▪ Rolling started: 05.06.14</li> <li>▪ Commencement of rolling from the 4300mm wide Plate Mill was inaugurated by the Chairman on 06.06.14. Also, the first load of 2 nos. 100mm thick plates was flagged-off by the Chairman on 06.06.14.</li> <li>▪ PAC issued: 31.07.15.</li> <li>▪ CC issued: 21.03.17</li> <li>▪ PG test: 25.12.17</li> <li>▪ Plate Mill was under shutdown since 14.08.14 due to failure of main Mill</li> </ul>

SI. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP																								
							<p>Motors.</p> <ul style="list-style-type: none"> <li>Rolling started on 30.11.14 and was under operation with repaired motors.</li> <li>Plate mill was under shut down from 23.09.16 for 17 days for replacement of main mill stand motors (8 MW each).</li> <li>Both the motors have been replaced and rolling resumed since 09.10.16.</li> </ul> <p><u>Hot Plate Leveler:</u> Integrated cold trial done on 20.09.14.</p>																								
33	<p>Finishing Facilities for New Plate Mill (4 -Hi reversing Finishing Mill)</p> <p>Total production aim ( plates, thickness 6-100 mm): 920,000 tpa (3,067 tpd) Of that :</p> <ul style="list-style-type: none"> <li>Plates, thickness 6-50 mm : 828,000 tpy</li> <li>Plates, thickness &gt; 50-100 mm : 92,000 tpy</li> </ul> <p><u>Critical issues</u> Completion of balance piping job.</p>	SMS Siemag/SMS India/ABB	<p>518.50 (343.88)</p> <p>580.32 <u>Gross cost:</u> 655.9</p>	632.56	23.08.10	Feb'13 (Mar'15)	<ul style="list-style-type: none"> <li>PAC issued :23.11.15,</li> <li>CC issued: 07.04.17</li> <li>PG test done in Oct'18</li> <li>Hot Plate Leveler: Hot trial on 20.09.14.</li> <li>Accelerated Cooling System: Hot trial on 30.11.14</li> <li>Dividing Shear: Hot trial on 03.01.15, plate cutting done on 17.01.15.</li> <li>Cold Plate Leveler: Hot trial on 30.01.15.</li> <li>Double Side Trimming Shear: Hot trials on 31.01.15. After completion of integrated trials, plate cutting done on 20.02.15.</li> <li>Cooling Bed-1: Both entry &amp; exit sections are in operation.</li> <li>Plate Parking Machine: Hot trial on 18.03.15.</li> <li>Under operation since Mar'15. <ul style="list-style-type: none"> <li>Cumulative slabs rolled since inception: 41,07,740 T</li> <li>Cumulative Plates produced since inception : 36,95,091T, this includes: <ul style="list-style-type: none"> <li>Production of plates in 2014-15: 33,991T</li> <li>Production of plates in 2015-16: 2,20,923T</li> <li>Production of plates in 2016-17: 5,42,363T</li> <li>Production of Plates in 2017-18: 8,00,617T</li> <li>Production of Plates in 2018-19 : 8,57,966 T</li> <li>Production of plates in 2019-20; 871,831 T</li> <li>Production of plates in 2020-21; 367,400T this includes (T));</li> </ul> </li> </ul> </li> </ul> <table border="1"> <tr> <td>Apr</td> <td>38,721</td> <td>Oct</td> <td></td> </tr> <tr> <td>May</td> <td>45,825</td> <td>Nov</td> <td></td> </tr> <tr> <td>Jun</td> <td>49,194</td> <td>Dec</td> <td></td> </tr> <tr> <td>Jul</td> <td>73,651</td> <td>Jan</td> <td></td> </tr> <tr> <td>Aug</td> <td>80,960</td> <td>Feb</td> <td></td> </tr> <tr> <td>Sep</td> <td>79,049</td> <td>Mar</td> <td></td> </tr> </table> <p><b>Contract closed 29.09.2020.</b></p>	Apr	38,721	Oct		May	45,825	Nov		Jun	49,194	Dec		Jul	73,651	Jan		Aug	80,960	Feb		Sep	79,049	Mar	
Apr	38,721	Oct																													
May	45,825	Nov																													
Jun	49,194	Dec																													
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Sep	79,049	Mar																													
34	Water System for New Plate Mill	Flowmore Ltd., Ahmedabad	<p>52.96</p> <p>54.56 <u>Gross cost:</u> 54.61</p>	55.02	22.10.11	Apr'13 (Nov'16)	<ul style="list-style-type: none"> <li>Pumps of DCW-Mill, ICW-General, ICW-Furnace and Settling Tank PH have been erected.</li> <li>Automation system has been commissioned in Re-circulating Pump House (RCPH) &amp; Settling tank Pump House (STPH).</li> <li>PAC &amp; Commissioning done.</li> </ul>																								

Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP
35	Power Distribution System for New Plate Mill	Siemens	29.86  32.62 <u>Gross cost:</u> 35.61	31.85	01.02.12	Apr'13 (Nov'16)	<ul style="list-style-type: none"> <li>▪ Completed.</li> <li>▪ PAC &amp; Commissioning done.</li> </ul>
36	Air Conditioning System for New Plate Mill  <b>After RPN</b> Balance work of Air Conditioning System for NPM	Trans Tech Turnkey Pvt. Ltd. Kolkata  S.C.Varghese	16.67 <u>Gross cost:</u> 19.36  4.47 <u>Gross cost</u> 5.28	17.71	20.04.12  27.12.18	Jul'13  Jun'19 (After RPN) Oct'2020	<ul style="list-style-type: none"> <li>▪ One chiller unit is under operation. Other two unit work is balance.</li> <li>▪ Since site progress was very slow, RPN issued to Party and order placed on S. C. Verghese in Dec'18, alternate agency with implementation schedule of 6 months. 50% jobs completed earlier, balance jobs to be completed after RPN includes pipeline, its insulation, automation etc.</li> <li>▪ Ac system is under operation, defect list liquidation to be done.</li> <li>▪ PAC done.</li> <li>▪ Commissioning done on 30.09.2020. Progress is slow due to COVID 19.</li> </ul>
37	Auxiliary Power, Lighting & Earthing for New Plate Mill	Cosmic Power Systems Pvt. Ltd., Vizag.	19.30  19.74  <u>Gross cost:</u> 20.94	19.21	18.04.12	Apr'13 (Nov'16)	<ul style="list-style-type: none"> <li>▪ Major work completed, balance is under progress.</li> </ul>
38	Auxiliary Civil Work for New Plate Mill <u>Critical issues</u> Poor mobilization and payment to vendors by M/s HSCL affecting the progress of work	HSCL	29.17  40.67 <u>Gross cost:</u> 29.17	33.88	05.07.12	Aug'13 (Nov'16)	<ul style="list-style-type: none"> <li>▪ Major work completed.</li> <li>▪ <b>FAC issued on 30.09.2020.</b></li> </ul>
39	EOT Cranes & Hoists for New Plate Mill (total 22 cranes)	Anupam Industries, Anand	130.22  210.26 <u>Gross cost:</u> 224.44	131.16	08.09.12	Mar'14 (Jun'15)	<ul style="list-style-type: none"> <li>▪ Under operation.</li> <li>• PAC done.</li> </ul>
40	Erection of Mech. Equipment for New Plate Mill	Essar Project (India) Ltd, Mumbai	72.79  76.11 <u>Gross cost:</u> 84.05	72.91	06.10.12	Aug'13 (Jun'15)	<ul style="list-style-type: none"> <li>▪ PAC &amp; Commissioning done.</li> <li>▪ Rolling started on 05.06.14.</li> <li>▪ In Hot Plate Leveler, integrated cold trial done on 20.09.14 in presence of Chairman, SAIL</li> </ul> <p><b>In Finishing facility :</b></p> <ul style="list-style-type: none"> <li>▪ <u>Dividing Shear</u>: Hot trial: 03.01.15, plate cutting: on 17.01.15 and under operation.</li> <li>▪ <u>Cold Plate Leveler</u>: Hot trial: 30.01.15 and under operation.</li> <li>▪ <u>Double Side Trimming Shear</u>: Hot trials: 31.01.15. After completion of integrated trials, plate cutting: 20.02.15. Trial run of scrap conveyor done.</li> <li>▪ <u>Cooling Bed-1</u>: Both entry &amp; exit sections are in operation.</li> <li>▪ <u>Plate Marking Machine</u>: Cold trials have been completed. Hot trial taken through solvent and paint/solvent for continuous operation received on 18.03.15.</li> </ul>

Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP
							<ul style="list-style-type: none"> <li>▪ <u>Primary Inspection Bed</u>: hot trial: 23.05.15.</li> <li>▪ <u>Flame Cutting Machine</u>: Erection work has been completed. Reconciliation is under progress.</li> </ul>
41	Ventilation System for New Plate Mill	C Doctor	10.65  <u>10.16</u> <u>Gross cost:</u> <u>10.91</u>	10.78	07.10.13	Oct'14 (Dec'2020 )	<ul style="list-style-type: none"> <li>▪ Furnace -ECR Washed air System completed.</li> <li>▪ ECR-1 Washed Air System (3 nos.) completed.</li> <li>▪ Progress was poor due to GST issues (resolved now) and theft of material.</li> <li>▪ 16/23 nos ventilation system completed so far.</li> <li>▪ PAC issued</li> <li>▪ Progress is slow due to COVID 19.</li> </ul>
42	Utility Pipework, Air Drier & Aux. Eqpts. for New Plate Mill	Flowmore Ltd., Ahmedabad,	20.41  <u>19.33</u> <u>Gross cost:</u> <u>21.01</u>	17.92	23.10.13	Dec'14 <b>(Nov'16)</b>	<ul style="list-style-type: none"> <li>▪ Engineer's notice to M/s Flowmore on 13.01.14 and sustained pressure at various levels to expedite the jobs, progress has improved.</li> <li>▪ Make-up water (DN-150, 350) 350m, DCW (DN-150) 100m, ICW (DN-80, 150) 350m, Mixed Gas (DN-25, 100, 150, 900, 1200, 1500) 212m, Nitrogen (DN-100, 200, 300, 400) 814m, Inst. Air (DN200) 972m, Compressed Air (DN-300, 400) 1204m: completed.</li> <li>▪ For cold plate leveler, DSTS&amp; dividing shear, piping for ICW &amp; IA has been completed.</li> <li>▪ For cooling bed-1, all ICW, DCW, compressed air and instrument air piping completed.</li> <li>▪ For accelerated cooling system, piping for DCW, compressed air, instrument air and piping from PCPH to Piezometric tank has been completed.</li> <li>▪ PAC issued.</li> <li>▪ <b>FAC issued</b></li> </ul>
	<b>Utility/Enabling Packages</b>						
43	Augmentation of existing MSDSs and installation of new MSDSs-IV, V & V <u>Additional Work</u> a) Change order-1- Rs. 0.7 cr. (net of cenvat) b) Change order-2- Rs.3.6 cr. (net of cenvat)	Siemens	219.41 (35.86)  <u>227.65</u> <u>Gross cost:</u> <u>233.23</u>	226.14	03.10.08	Oct'10 <b>(Apr'13)</b>	<ul style="list-style-type: none"> <li>▪ PAC (7 units) issued: Jul'12-Apr'14</li> <li>▪ Commissioning certificate: Mar'15-May'15</li> </ul>
44	Medium Voltage Power Distribution System & SCADA <u>Additional Work</u> a) Change order 1 – Rs. 1.02 crore (net of cenvat) b) Change order 2- Rs.2.83crore (net of cenvat) c) Change Order 3- Rs.4.22crore (net of cenvat) d) Change order 4- Rs10.32crore (net of cenvat) e) Change Order 5 – Rs.2.14 crore (net of Cenvat)	L&T	111.55  <u>135.07</u> <u>Gross cost:</u> <u>144.22</u>	118.73	07.04.10	Mar'12 <b>(Apr'13)</b>	<ul style="list-style-type: none"> <li>▪ PAC issued: Jan'14-Feb'15</li> <li>▪ Commissioning certificate: Nov'14-Nov'15</li> <li>▪</li> </ul>
45	Intra-Plant Transportation Facilities	MBE Co.	237.21		07.04.10	Feb'12	<ul style="list-style-type: none"> <li>▪ Under operation.</li> </ul>

SI. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP
	<u>Additional Work</u> a) Change order 1, Wagon loading system for coke on MBE for Rs.8.3 cr. (net of cenvat) b) Additional sanction-change order for wagon loading of coke- Rs.0.1 cr. (net of cenvat)	Ltd.	261.80 <u>Gross cost:</u> 276.85	253.91		(Aug'13 CDIroute- Mar'14 & coke from existing COBs route- Jul'14)	<ul style="list-style-type: none"> <li>PAC done.</li> </ul>
46	Interplant Fuel & Industrial Pipelines <u>Additional Work</u> a) Change order-Rs.18.26crore (net of cenvat) b) Change order - Rs.1.73 cr(net of cenvat)  <b><u>After RPN action (estimated cost Balance work ; Rs.45.99 Crore(net of cenvat credit of 5.35 cr)</u></b>  Major work of balance job	UB Engg.    Consortium of Vimal Organics Ltd.	153.09  152.39 <u>Gross cost:</u> 165.57  40.04 <u>Gross cost:</u> 45.39	204.10	18.09.10    03.05.16	Dec'11 (Aug'13 NPM route minima- May'14   Jan'17 (Jul'17)	<ul style="list-style-type: none"> <li>The minimal utility pipelines required for supplying mixed gas, compressed air &amp; nitrogen to New Plate Mill was completed on 09.05.14 and Reheating Furnace was lighted-up on 12.05.14.</li> <li>The main line is to come from a distance of about 5 Kms from the gas booster point through new Gas corridor. .</li> </ul> <p><b><u>After RPN to UB Engg.</u></b> For major balance work, after RPN action, LOA placed on consortium of M/s Vimal Organics on 22.04.16 with implementation schedule of 8 months.</p> <ul style="list-style-type: none"> <li>Site work was started on 13.05.16.</li> <li><b>For New Plate Mill:</b> Mixed Gas (DN 1500 mm) 1800 meters charging done on 15.11.16.</li> <li><b>Structural:</b> Left out Platform, stair case &amp; walkway job in progress in all zones. PRMS mechanical erection completed, instrumentation &amp; Electrical work in progress.</li> <li>DN 100 mm Propane Line for old mills section has been charged on 03.02.2017. DN 400 mm / 500 mm Compressed Air Line charged on 08.02.2017; DN 80 Oxygen line from TOP-II to New Plate Mill- total 3,500 meters erected and charged on 07.03.17. DN 150 O<sub>2</sub> line erection completed (350 m), DN 50 MP N<sub>2</sub> line Charged on 17.03.2017, DN 250 LP N<sub>2</sub> line erected 600/600 meters, DN 1000 LD gas line erected 85 /85 meters.</li> </ul>
47	LPG/Propane Storage & Handling System	Globe Gas Equipment	9.63  10.13 <u>Gross cost:</u> 10.46	9.98	09.03.10	Jun'11 (Feb'16)	<ul style="list-style-type: none"> <li>One unit is under operation since 27.01.16 and supplying to RHOB.</li> <li>Second unit under operation since 16.02.16.</li> <li>After oxygen made available through separate package IPPL on 07.03.17, propane also made available to NPM.</li> <li>PAC done.</li> </ul>
48	Make-up, Drinking & Firefighting Water System <u>Additional Work</u> For Pipe lines & valves for soft water to BF-5- Rs. 1 cr. (net of cenvat)	JUSCO	37.52  38.77 <u>Gross cost:</u> 39.33	39.94	21.08.10	Feb'12 (Jun'15)	<ul style="list-style-type: none"> <li>PAC issued: 17.04.15</li> <li>Commissioning certificate: 15.05.15</li> <li>PG test: 03.12.15</li> <li>PG test certificate: 08.12.15</li> <li><b>FAC: 08.04.17</b></li> </ul>
49	<u>Railway Infrastructure</u>		168.91  195.88				

Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP
			<u>Gross cost:</u> 197.35	164.96			
49a	Supply of Rails for Railway Infrastructure	BSP	32.43 <u>Gross cost:</u> 36.93		12.02.09	-	<ul style="list-style-type: none"> <li>Total 9,816T IU rail (60kg) received and 416T IU rail (52kg) yet to be procured by RSP.</li> </ul>
49b	Supply of PSC Sleepers etc. for Railway Infrastructure	OCP, OCAIL & GPT	29.23 <u>Gross cost</u> 30.89		24.08.10	Aug'11 (Jun'12)	<ul style="list-style-type: none"> <li>Total 1,18,558 nos. of various types of PSC sleepers (sch.- Aug'11) recd.</li> </ul>
49c	Supply of Turnout and Fittings for Railway Infrastructure	Multiple parties	10.77 <u>Gross cost:</u> 10.77		27.08.10	Jul'11 (Jan'12)	<ul style="list-style-type: none"> <li>Total 11,43,333T received.</li> </ul>
49d	Cons. & Upgradation of Tracks for Railway Infrastructure Addl. Work:Change order on M/s ARSS for Rs.3.9 cr. (net of cenvat)	ARSS Infra Projects Ltd.	36.31 <u>Gross cost:</u> 37.49		27.08.10	Feb'12/ Sep'19* (Upgradati on work to new party)  Oct'2020) (M/s S.N. Sharma job))	<ul style="list-style-type: none"> <li>New tracks-major jobs have been completed. M/s ARSS were called for conciliation on 29.10.19, they have not come, conciliation meeting is again planned on 06.11.19.</li> <li>To resolve various issue raised by M/s ARSS, party has been called for conciliation meeting, party has not come yet.</li> <li>Party didn't agree to work on same rates for up-gradation of tracks. Hence, for retendering for up-gradation works.</li> <li>For balance Railway track work, order placed on 28.06.18 on M/s Suresh Chand Gupta for Rs 22.43 Crore with implementation schedule of 15months, Work is under progress. Work was stopped by party and RPN (for inside the plant) notice issued to the party on 30.11.19. For Balance jobs (inside the plant) NIT issued with TOD on 25.03.2020, TOD extended to 17.04.2020&amp; 22.05.2020, Tender opened on 22.05.2020, three bids received. Rites have submitted TER.. RA done, TC meeting to be held.</li> <li>For BNDM to marshalling Yard railway track upgradation/ construction, order placed on M/s S.N.Sharma constructions for Rs. 5.47 crore. Total 8 km new track has been placed, only final packing &amp; other misc jobs to be completed, due to present lockdown progress is slow.</li> </ul>
49e	Service Buildings in NCCY, OBBP & Marshaling Yard for Rail Infra	ZA Construction	2.05 <u>Gross cost:</u> 2.11		28.12.10	Jun'12 (Jun'15)	Completed.
49f	Overhead Electrification of Tracks for Railway Infrastructure Additional Work Change order for interim deviation - Rs.9.6 crore	Cimechel Electric Co.	26.02 <u>Gross cost:</u> 26.43		17.01.11	Jul'12 (Dec'2020 )	<ul style="list-style-type: none"> <li>OHE Work for NCCY, Marshalling yard completed and partly completed for OBBP. Bay Extension at MSDS-VI charged and Commissioned.</li> <li>Earlier, power had to be supplied by Railway but they refused. Later, separate order for construction of a 132/25 KV traction substation (TSS) was placed on M/s Cimechel Electric Co. as separate contract in Oct'14 at ~ Rs.37 Cr. and work is under progress.</li> <li>Disputes with M/s Cimechel Electric Co resolved amicably.</li> <li>Permission for no load charging of Traction Sub Station (TSS) received from Railways. Tripartite agreement to be signed among Railway, RSP and Western Electricity Supply Company of Orissa (WESCO). NOC of RSP has been conveyed to WESCO and inspection done by WESCO on 13.04.19. Clarification of WESCO complied by RSP on 06-05-2019 and sent to WESCO.</li> <li>Further, WESCO asked for supplying power to Railways directly, RSP has agreed for this arrangement for time being. Meeting with WESCO held on</li> </ul>



Sl. No.	Package	Party	Cost/ RCE in Rs. Cr Net of CENVAT (FE)	Expenditure till Sep' 2020 (Rs. Cr)	Eff. Date of Contract	Schedule (Likely/ Actual)	Status RSP
							01.10.19 in this regard. Draft agreement was submitted to WESCO, Comments on the same given by WESCO to RSP. Meeting held with WESCO and RSP on 27.12.19 to discuss the points not agreeable to RSP. <ul style="list-style-type: none"> <li>Subsequently, WESCO has submitted revised draft agreement after incorporating points resolved in meeting. However, one new condition is raised by Railways, in that regard, Railways will discuss the issue with WESCO. The condition is not linked with RSP. Above mentioned Issue resolved and draft agreement has been signed on 18.03.2020, As per procedure, petition to Orrisa Electricity Regulatory Commission (OERC) has been submitted by Railways with RSP as joint signatory, after approval of which Final agreement shall be signed. Thereafter, TSS will be charged. Hearing of petition held on 25.08.2020.</li> <li>Clearance for signing of Tripartee agreement is received on 30.09.2020 from OERC.</li> </ul>
49g	Signaling & Telecomm. for upgradation of Rail infra (Indoor)	Kiran Infra Engg. Ltd., Jaipur	21.14 <u>Gross cost:</u> 21.79		17.11.11	Feb'13 (*)	<ul style="list-style-type: none"> <li>New Coal Chemical Yard commissioned since Dec'15 and is in operation.</li> <li>Track modification work of Marshalling Yard has been completed.</li> <li>For OBBP Yard, will be taken up after track modification (track work is under progress under package mentioned in sl. No.49d).</li> </ul>
49h	Signaling & Telecomm. for upgradation of Rail Infra (Outdoor)	HBL Power Systems Ltd, Kolkata	10.99 <u>Gross cost:</u> 11.76		11.11.11	Feb'13 (*)	<p><b>*Presently, work has been stopped by parties, claims are sent. To resolve the issue committee has been formed and outcome of the report has been communicated with the parties.</b></p> <p><b>Disputes (reg part commissioning, part PBG etc) with both the parties have been resolved and approved by competent authority. After lockdown, parties will start the job. Parties have started mobilizing and contract has been extended and work is likely to start shortly.</b></p>
50	2x700tpd O <sub>2</sub> Plant (BOO basis)	BOC	(BOO basis)		02.01.09	Jun'11 (Sep'15)	Completed.

## BSL – Expansion of Bokaro Steel Plant

1. **'In-Principle' Approval** : Dec'06
2. **Cost (Rs.crore):**
  - a) Indicative cost (Dec'06) :Rs8,399(Net of Cenvat benefit of Rs866 Cr.)
  - b) Revised estimates (Jul'08):Rs 15,196 (Net of Cenvat benefit of Rs1,517 Cr.)
  - c) Revised estimates (Jun'09):Rs 6,325 (Net of Cenvat benefit of Rs 626 Cr.) (FE –Rs1,311 Cr)
  - d) Expenditure (Till Sept'20) :**Rs.7184.95 Cr.**
3. **Approved Schedule** :Dec'11 (New CRM); Jan'14 (HSM)  
Actual Completion :Jul'15 (PLTCM) ; Sep'15 (HSM); May'18 (HDGL)

#### 4. **Production (Mtpa)**

Item	Installed Capacity	2005-06 (Base Case)	After Phase-I Expansion	Present Level
Hot Metal	4.59	4.7	5.77	5.77
Crude Steel	4.36	4.23	4.61	4.61
Saleable Steel	3.78	3.73	4.18	4.18

#### 5. **Techno- Economic parameters**

Item	2005-06	After Expansion
Coke Rate (Kg/thm)	524	386
BF Productivity (t/m <sup>3</sup> /d)	1.89	2.16
Specific energy (Gcal/tcs)	7.09	5.5

#### 6. **Facilities envisaged (Dec 2006):**

- Introduction of Auxiliary fuel injection in two Blast Furnaces
- Augmentation of existing Sinter machines
- Introduction of appropriate Secondary refining facilities in Steel Melting Shop for producing value added grades of steel
- Up-gradation of existing HSM
- Conversion of higher quantities of HR coils to value added CR products with the installation of additional Cold Rolling capacity

The Comprehensive Project Feasibility Report (Dec'06) envisaged the Hot Metal production as 7.44 MTPA, Crude Steel as 7.00 MTPA and Saleable Steel as 6.53 MTPA. In June'09, keeping the prevalent market conditions in perspective, overall review of SAIL Expansion Plan was done by SAIL Board. Facilities envisaged under CPFR i.e.New Sinter Plant, Up-gradation of 2 numbers of BF (no. 1 & 5),SMS-III,Up-gradation of Tandem Mill -1, Services & Auxiliary facilities earlier envisaged at BSL were deferred.

#### **Facilities envisaged (June 2009):**

- Augmentation of Raw Material Handling Facilities
- Rebuilding of 3 Coke Oven Batteries compliant with Statutory environmental norms
- Up-gradation of BF no. 2 and Up-gradation of Stoves of BF- 5 to enhance Hot Metal production from 4.7 to 5.77 Mtpa
- Introduction of Hot Metal De-sulphurisation facility in SMS-II for producing value added grades of Steel
- Up-gradation of Roughing stands of HSM
- New Cold Rolling Mill complex (CRM-III) - 1.2 Mtpa
- Augmentation of Infrastructure facilities, Utilities and Services, Pollution control schemes, etc.

#### 7. **Major linked facilities completed:**

- ✓ Up-gradation of Blast Furnace No.2
- ✓ 2nd Ladle Furnace in SMS-II
- ✓ Coal Dust Injection system for BF-2&3
- ✓ Rebuilding of Coke Oven Battery No.1&2
- ✓ Turbo-blower-8
- ✓ Up-gradation of Stoves of BF-5

**Package-wise Details for Expansion of Bokaro Steel Plant**

**Packages under Implementation:**

SI.No	Package	Party	Cost in Rs. Cr Net of CENVAT (FE) / Gross Cost	Expenditure upto Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status BSL																								
	<b>New CRM Complex</b>																														
1.	Pickling Line-Tandem Cold Mill (Capacity - 1.261 Mtpa; 3978 TPD) <u>Profile</u> Coil wt. – 18T, 22.5T, 24T, 27T Width – 800 to 1560mm Thickness – 0.25 – 2mm  <u>Issues :</u> - Delay in stabilisation of Laser welder - Foreigner expected (affected due to COVID-19) - Additional Mandays being discussed with M/s Primetals (334 days).	Primetals / Primetals India/ /Mcnally Bharat	694.31 (332.57)  Gross Cost - 810.47	807.07	3.3.08	Dec'10 (Aug'14- completed Jul'15)	<ul style="list-style-type: none"> <li>• <b>PAC: 28.02.14</b></li> <li>• <b>CC: 28.07.15</b></li> <li>• <b>PG : 28.11.19</b></li> <li>• <b>FAC: 03.12.2019</b></li> <li>• Production details :                             <ul style="list-style-type: none"> <li>- 2015 - 16: 85,810 T</li> <li>- 2016 - 17: 2,17,394 T</li> <li>- 2017-18 : 3,55,561 T</li> <li>- 2018-19 : 3,65,565 T</li> <li>- 2019-20 : 4,68,083 T</li> <li>- 2020-21 : 2,09,394T Prod. affected due to COVID</li> </ul> </li> </ul> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Apr</td> <td>---</td> <td>Oct</td> <td></td> </tr> <tr> <td>May</td> <td>30765</td> <td>Nov</td> <td></td> </tr> <tr> <td>Jun</td> <td>31784</td> <td>Dec</td> <td></td> </tr> <tr> <td>Jul</td> <td>51053</td> <td>Jan</td> <td></td> </tr> <tr> <td>Aug</td> <td>48471</td> <td>Feb</td> <td></td> </tr> <tr> <td>Sep</td> <td>47321</td> <td>Mar</td> <td></td> </tr> </table> <p align="right">Tonne</p> <ul style="list-style-type: none"> <li>• Due to fire on 02.11.18, PLTCM was under shutdown; Repair work completed and operation resumed on 22.11.18.</li> <li>• Work order for maintenance of Laser welder of PLTCM issued on OEM M/s Primetals on 30.11.18.</li> <li>• Technical support from M/s Primetals started from 17.06.2019. Welder expert visited Bokaro on 15.07.2019. Foreign Expert again expected after COVID-19 issue resolved for periodic maintenance.</li> <li>• To improve the welding quality, Major corrective Maintenance is required for laser welder.</li> <li>• Two stands roll change in auto-mode achieved.</li> </ul>	Apr	---	Oct		May	30765	Nov		Jun	31784	Dec		Jul	51053	Jan		Aug	48471	Feb		Sep	47321	Mar	
Apr	---	Oct																													
May	30765	Nov																													
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BSL Expansion	Hot Dip Galvanizing line & Electrolytic Cleaning line <u>HDGL</u>	Primetals / Primetals India/ Andritz AG	486.30 (207.71)	537.58	3.3.08	Jul'10 (ECL-CC issued)	<u>ECL:</u> <ul style="list-style-type: none"> <li>• <b>PAC : Mar'15.</b></li> <li>• <b>Hot Trials held in May'16.</b></li> </ul>																								

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	<p>(Capacity - 0.38 Mtpa; 1141 TPD) <u>Profile</u> Width – 800 to 1560mm Thickness – 0.28 – 2mm Zn coating – 30-300g/m2</p> <p><u>ECL</u> (Capacity - 0.37 Mtpa; 1111 TPD) <u>Profile</u> Broad Gauge range-0.25 to 1.5 mm</p> <p><u>Issues :</u> Support of M /S Primetals is required to run the line but M/s Primetals is not willing to provide support and is linking the same with Commercial issues of CRM-3 (443 mandays payment). However, the commercial issues of Primetals are being taken up on priority.</p>		Gross Cost - 563.00			HDGL-May'18	<ul style="list-style-type: none"> <li><b>CC: 18.03.17</b></li> <li><b>PG: 30.09.18</b></li> <li><b>FAC : 15.02.19</b></li> <li>1st phase of commissioning tests held in Oct'16,2nd phase tests conducted during 15-19 Feb'17.</li> <li>Cumulative output from ECL in 2019-20: 31,356 T</li> <li>Cumulative output from ECL in 2020-21: 12,595T</li> </ul> <p><u>HDGL:</u></p> <ul style="list-style-type: none"> <li><b>PAC issued on 04.02.17 with effect from 19.11.16.</b></li> <li>Furnace lighted up on 10.05.18.</li> <li>Strip threading started on 29.05.18.</li> <li><b>Hot Trial started on 31.05.18.</b></li> <li><b>CC issued on 28.06.18.</b></li> <li>HDGL production in 2018-19 (Jun'18 till Sept'18) :9338 T.</li> <li>Production for 2019-20 (started on 26.01.2020) : 15101 T</li> <li>Production for 2020-21 (till Aept'20): 6444 T</li> </ul> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Apr</td> <td>Nil</td> <td>Oct</td> <td></td> </tr> <tr> <td>May</td> <td>Nil</td> <td>Nov</td> <td></td> </tr> <tr> <td>Jun</td> <td>Nil</td> <td>Dec</td> <td></td> </tr> <tr> <td>Jul</td> <td>1519</td> <td>Jan</td> <td></td> </tr> <tr> <td>Aug</td> <td>3304</td> <td>Feb</td> <td></td> </tr> <tr> <td>Sep</td> <td>1621</td> <td>Mar</td> <td></td> </tr> </table> <p style="text-align: right;">Tonne</p> <ul style="list-style-type: none"> <li><b>HDGL was under breakdown Aug'18 due to multiple holes in Radiant tubes of RTH/RTS section of furnace. All 46 nos. Radiant tubes supplied and 46 tubes are installed. HDGL has been started from 26.01.2020.</b></li> </ul>	Apr	Nil	Oct		May	Nil	Nov		Jun	Nil	Dec		Jul	1519	Jan		Aug	3304	Feb		Sep	1621	Mar	
Apr	Nil	Oct																													
May	Nil	Nov																													
Jun	Nil	Dec																													
Jul	1519	Jan																													
Aug	3304	Feb																													
Sep	1621	Mar																													
3.	<p>Skin Pass Mill (Capacity-0.86 Mtpa;2567 TPD )</p> <p><u>Profile</u> Thickness – 0.3 -1.5 mm Width – 1000-1500 mm</p>	Danieli / Sunag	107.23 (64.43)  Gross Cost - 124.69	118.61	16.5.08	Jul'10 (Jul'13)	<ul style="list-style-type: none"> <li><b>PAC : 18.01.13</b></li> <li><b>CC: 07.10.16</b></li> <li><b>PG : 25.09.17</b></li> <li><b>FAC : 21.06.18</b></li> <li>Production details : <ul style="list-style-type: none"> <li>➤ 2015-16 : 74,234 T</li> <li>➤ 2016-17 : 2,03,429 T</li> <li>➤ 2017-18 : 3,36,123 T</li> <li>➤ 2018-19: 3.25,553 T</li> <li>➤ 2019-20 : 4,30,828 T</li> <li>➤ 2020-21 1,63,678 T</li> </ul> </li> </ul>																								

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Apr	4617 T	Oct																													
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Sep	34613	Mar																													
4.	Bell Annealing Furnace (Capacity - 0.86 Mtpa; 2552 TPD)  <u>Profile</u> 510 mm coil ID 1800 mm coil OD 1000-1500 mm width <0.3 mm- >1.5 mm Gauge	Rad-Con, USA / MACO / Gillanders Arbuthnot Co. Ltd/ Sunag	132.94 (52.53)/ Gross Cost - 153.06	165.44	30.5.08	Feb'10 / <b>Apr'18</b>	<ul style="list-style-type: none"> <li><b>PAC : 30.07.14</b></li> <li><b>CC : 20.04.18</b></li> <li><b>PG : 22.05.18</b></li> <li><b>FAC: 20.04.2019</b></li> <li><b>Production details</b> <ul style="list-style-type: none"> <li>&gt; 2015-16 : 55459 T</li> <li>&gt; 2016-17 : 1,99,745 T</li> <li>&gt; 2017-18 : 3,48,484 T</li> <li>&gt; 2018-19 : 3,36,236T</li> <li>&gt; 2019-20 :4,47,236T</li> <li>&gt; 2020-21 : 1,70,994 T</li> </ul> </li> </ul> <p style="text-align: right;">Tonne</p> <table border="1"> <tr><td>Apr</td><td>3510</td><td>Oct</td><td></td></tr> <tr><td>May</td><td>23245</td><td>Nov</td><td></td></tr> <tr><td>Jun</td><td>32057</td><td>Dec</td><td></td></tr> <tr><td>Jul</td><td>40060</td><td>Jan</td><td></td></tr> <tr><td>Aug</td><td>36624</td><td>Feb</td><td></td></tr> <tr><td>Sep</td><td>35498</td><td>Mar</td><td></td></tr> </table> <ul style="list-style-type: none"> <li><b>All 47 Bases commissioned progressively by Apr'18.</b> All 47 bases are under operation.</li> </ul>	Apr	3510	Oct		May	23245	Nov		Jun	32057	Dec		Jul	40060	Jan		Aug	36624	Feb		Sep	35498	Mar	
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5.	Acid Regeneration Plant (Designed Purified Iron Liquor Flow rate : 8,500 l/h ; Regeneration efficiency: 99%; Production of Iron Oxide : 1,750 kg/h)	ISSI, USA	60.03 (4.04) Gross Cost -63.25	68.64	5.6.08	Dec'09 ( <b>Jan'11</b> )	<ul style="list-style-type: none"> <li>Acid regeneration started on 26.03.15.</li> <li><b>CC: 17.07.15.</b></li> <li><b>PG : 27.03.15</b></li> <li><b>FAC: 05.09.16</b></li> </ul>																								
6.	Coil packaging line (Capacity : Line-1 : 400,000 tpa Line-2: 1,000,000 tpa)	ITW, Hyderabad	18.98 Gross Cost -22.02	22.01	4.7.08	Jan'10 ( <b>Jun'12</b> )	<ul style="list-style-type: none"> <li>CPL-2 completed in Mar'12</li> <li>CPL-1 completed in Jun'12</li> <li><b>CC: Jun'12</b></li> <li><b>PG : 11.02.15</b></li> <li><b>FAC: 31.12.15</b></li> </ul>																								

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7.	Tension Leveling lines (Capacity : 350,000T/year ; 1125 TPD)	Tenova SPA / Sunag Engg/ Multiform Machinery	93.01 (46.13) Gross Cost - 102.48	103.46	19.02.10	Feb'12 (Oct'18)	<ul style="list-style-type: none"> <li>Integrated Trial with strip started on 30.10.17.</li> <li><b>PAC issued on 04.11.17.</b></li> <li>Commencement of Production trial started with manual welding on 29.01.18.</li> <li>Production trial started from 01.03.2018.</li> <li>Production trial restarted from 20.03.18.</li> <li><b>Commissioning test done on 05.10.18</b></li> </ul>
8.	Roll Shop (2 CNC Roll grinding machines for work and intermediate rolls. One combination CNC Roll grinding machine. One EDT machine. One Automatic roll loader for loading, roll shop management system, roll changing machines, CNC shear blade grinder etc.)	Tenova SPA (earlier Pomini Tenova) / Arcum engg.	107.92 (80.02) Gross Cost - 119.75	118.71	08.04.10	Apr'12 (Aug'15)	<ul style="list-style-type: none"> <li><b>PAC issued on 09.04.15.</b></li> <li>Firefighting system of EDT commissioned in Jul'15.</li> <li><b>CC of Combi grinder issued on 02.05.15 and for balance facilities issued on 14.08.15.</b></li> <li><b>PG : 03.03.16</b></li> <li><b>FAC:24.06.17</b></li> </ul>
9.	Civil work for New CRM  (Change Order placed for Rs. 122.81 Cr)	L&T	387.71 (incl. change order)  Gross Cost - 387.71  (in addition Esc: 51.16 Cr)	432.77	17.4.08	Apr'10/ (Aug'15)	<ul style="list-style-type: none"> <li>Major works completed.</li> <li><b>Commissioning certificate issued in Jul'15.</b></li> <li><b>FAC : 23.01.17</b></li> </ul>
10.	Balance Civil works for New CRM <b>Issue</b> Quantity Deviation under approval. Store bldg elect work, Balance faecal line, seepage area in tunnel, Sealing work of CRM-III can be done after deviation approval.	HN Singh	48.88 Gross Cost -49.24	50.39	21.04.15	Dec'15 /Oct'20	<ul style="list-style-type: none"> <li>Design &amp; Engg -131/131 nos submitted.</li> <li>Concreting -16000/16000 m3done</li> <li>Toilet Blocks : 05/11 handed over.</li> <li>Cycle Sheds : 11/11 handed over.</li> <li>Storm Water line : 80% completed.</li> <li>Surface drain : 100% completed.</li> <li>Part CC-90% issued</li> </ul>
11.	Structural work for New CRM  (Change Order placed for Rs. 37.89 Cr)	Era Infra	164.18 (incl. change order)  Gross Cost - 164.18	164.60	12.3.08	Mar'10 / Jul'16	<ul style="list-style-type: none"> <li><b>Completion certificate issued in Jul'16.</b></li> </ul>

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12.	Structural work-RGBS & Miscellaneous  (Change Order placed for Rs. 1.02 Cr)	HSCL	30.93 (incl. change order)  Gross Cost -35.39	33.40	31.12.11	July'12 <b>(Jul'14)</b>	<ul style="list-style-type: none"> <li>• <b>Completion certificate</b> issued for RGBS area on 02.07.14.</li> <li>• <b>FAC: 15.10.16</b></li> </ul>
13.	Miscellaneous Structural Items- Racks, Store Box - CRM III <u>Issues:</u> - No work at site since more than 2 yrs - Balance supply: C-hook, PU Pads, Removable coil Saddle, Commissioning spares etc. - Notice for contractors default issued. RPN Action initiated. - Balance work TS yet to be submitted by MECON. MECON has raised the additional claim for preparation of TS and Estimate for balance work.	UR Engg. Dewas	8.1  Gross Cost -8.1	7.51	11.05.15	Oct'15 / Dec'20	<ul style="list-style-type: none"> <li>• Eqpt supply- 720/800 T and, Ercn-600/800 T done.</li> <li>• Eqpt. Supply- Fixed coil saddle, Sleeve, Scrap Box etc have been supplied.</li> <li>• Balance supply: C-hook, PU Pads, Removable coil Saddle, Commissioning spares etc. Fixed coil saddle, Sleeve, Scrap Box erected.</li> </ul>
14.	Hydrogen Generation plant (Capacity-2x250 NM3/Hr)	Airoxnigen / Tianjin Mainland, China	20.42 (4.39)  Gross Cost -23.28	21.07	14.7.08	Dec'09 <b>(April'18)</b>	<ul style="list-style-type: none"> <li>• CC test of Skid-1 completed in Jan'15. CC of Skid-2 done in Mar'18.</li> <li>• <b>CC : Apr'18</b></li> <li>• New 125 Nm3/ hr Methanol based Skid has been installed by M/s Airox Nigen for supply of Hydrogen on conversion basis (at a conversion cost of Rs.60/m3).</li> </ul>
15.	EOT Cranes (part A- 04 cranes; Part B- 19 cranes) 3 nos of 50/10t x28 m span 2 nos. 80/20t *28 m 2 no 50/10 *28 m 3 nos. 50/10 t *40m 1 no 50/10 t *40m 1 nos 80/20t*40m 2 nos 50/10 *30m span 2 nos 16t*27.5m span 1 no 16t*29m span 2 no 50/10 t *30m span 2 no 50/10 t *30m span 2 no. 50/10t*30m span	WMI	91.3  Gross Cost -98.80	94.65	19.2.10	Aug'11/Nov'20	<ul style="list-style-type: none"> <li>• 21/23 Cranes commissioned. <b>CC issued for 21 nos.Cranes.</b>PG given for 7/23 nos. Cranes.</li> <li>• 21 out of 23 Telfers erected so far. Commissioning of 8/23 nos Telfers done so far.</li> <li>• Crane-9: Shutdown for 1 day received on 05.07.19. Shut down work completed. Protocol moved for CC.</li> <li>• Crane-10: Shutdown awaited, after which project will be completed.</li> <li>• LD Finalized. CENVAT credit reconciliation under process.</li> <li>• Protocol initiated and forwarded to CRM3 for start of PG test.PG test planned in Oct'20.</li> </ul>

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	(Change Order placed for Rs. 2.27 Cr) Issues : - Balance work: Erection of Telfer in Crane no.10. Waiting for shutdown. - Change order for DSL shifting in ST bay.						
16.	DSL Modification in ST Bay of CRM #3 along with modification in existing 02 nos. Cranes	Abhay Electricals	0.233		22.01.20	Feb'20 / Novt'20	<ul style="list-style-type: none"> <li>Billing schedule &amp; QAP approved.</li> <li>After receiving comments from Mecon Party has incorporated the same on Drgs. and submitted.</li> <li>Drg submitted by party for raising of inspection call.</li> <li>Supply of materials yet to be started.</li> </ul>
17.	HR Coil Conveyor (capacity : 1.27 Mtpa)	SVAI, Austria/SVAI, India (now Primetals)	68.847 (8.302)  Gross Cost -74.75	76.36	22.2.10	Nov'11 (Jan'15)	<ul style="list-style-type: none"> <li><b>PAC issued on 10.01.15.</b></li> <li><b>CC issued on 10.05.15.</b></li> <li><b>PG : 24.06.20</b></li> </ul>
18.	Water supply system	Ion Exchange	68.40  Gross Cost -72.70	78.42	15.02.10	Oct'11 (Jan'19)  (Jul'14-DM)	<ul style="list-style-type: none"> <li>Cooling water and Potable water was made available at all required locations. Erection of RO plant completed in Oct'15.</li> <li>Emergency OH tank completed (52 m) in Nov'15. Commissioning of Emergency Overhead Tank (EOHT) for HDGL and BAF done on 04.03.17.</li> <li>Change order issued to M/s Ion Exchange for Softening plant under Water supply system on 23.07.17 at a price of Rs. 8.02 Cr with an implementation schedule of 4 months.</li> <li>Temporary water softening plant supplied and erected on 31.08.17 for catering to requirement of HDGL. Work Completed. Soft water plant commissioned on 24.11.18.</li> <li><b>Commissioning tests done 03.1.19. Certificate issued on 11.01.19 to M/s Ion Exchange.</b></li> </ul>
19.	Effluent Treatment plant <u>Issues :</u> MOM for start of commissioning test in Sept' 20 done with CRM-3. However, Protocol for commissioning test is pending at CRM-3.	Voltas	7.59  Gross Cost -7.92	7.72	06.03.10	Sept'11/Jan'20	<ul style="list-style-type: none"> <li>Trials completed and PAC issued in Mar'15</li> <li>HDPE pipe to ETP laid underground has been damaged by other working agencies of CRM III. Change order has been issued to M/s Voltas for re-laying of HDPE pipes on existing trestles.</li> <li>All HDPE pipes supplied at site. Erection of the same, completed.</li> <li>Process of effluent started on 25.12.19. Put in use on 16.01.2020</li> <li>Plant is being made ready for treatment after rectification of</li> </ul>



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							pipe leakage. <ul style="list-style-type: none"> <li>Bacteria generation is under progress</li> </ul>
20.	Tertiary Treatment plant	S.R Paryavaran	32.5 Gross Cost -	32.70	12.03.15	Jul'16/ <b>completed</b>	<ul style="list-style-type: none"> <li>Facility is ready for commissioning. Commissioning of TTP will be done after receiving input from ETP.</li> <li><b>PAC: 19.04.19</b></li> <li>CRM-3 has agreed to start the Commissioning test from Oct' 20.</li> </ul>
21.	Electric operated Transfer car (1x60t cap Transfer car x 415m travel, 1x60t cap Transfer car x130m travel, 4x150t cap Transfer car x 265m travel each 2x40t cap Shuttle car x 25m travel, 1 no. Automated pick & place equipment 4 no. floor mounted fixed coil saddles 20 nos. detachable coil saddle)	Graduate Agro	10.8 Gross Cost -11.67	13.76	10.03.10	Mar'11 <b>(Jan'18)</b>	<ul style="list-style-type: none"> <li>All 6 no. Transfer Cars are under semi auto mode &amp; being used by operation for transferring coil &amp; rolls. Erection of PLC panel done in Jun'15.</li> <li>Pick &amp; place equipment completed in manual mode, commissioned in Dec'15.</li> <li>Trial of Transfer car in auto mode completed.</li> <li>Pick &amp; Place has been started in Auto mode .</li> <li><b>CC : Jan'18</b></li> <li><b>PG test can only be done after installation of reeling drum which is under approval for change order.</b></li> </ul>
22.	Centralized Tele Communication System	Wipro	3.53 Gross Cost -3.87	4.24	18.04.10	Apr'11/ <b>(Mar'13 except welfare building) Feb'17</b>	<ul style="list-style-type: none"> <li>Project commissioned on 25.03.13 except RLU location in CRM-III.</li> <li>Testing of RLU exchange completed in Jun'15.</li> <li>Commissioned in Sep'15.</li> <li><b>PAC issued in Jan'16.</b></li> <li><b>CC issued on 14.02.17.</b></li> </ul>
23.	Propane Storage Installation (2*150 T each moulded storage vessels)	Confidence petroleum	7.68 Gross Cost -8.25	7.45	21.04.10	Aug'11/ <b>Sept'16- Charged to HDGL</b>	<ul style="list-style-type: none"> <li><b>PAC issued in 06.02.15.</b></li> <li><b>CC Issued on 25.11.17.</b></li> </ul>
24.	Firefighting facilities <u>Issue</u> - Delay in Erection of Fire check door at cable tunnel	Tri Parulex	9.69 Gross Cost -10.54	12.04	21.10.10	Dec'11 <b>(Sep'19)</b>	<ul style="list-style-type: none"> <li>Piping work completed.</li> <li>FDA system in PLTCM, RGBS, BAF &amp; SPM, HRCC, ECR1 &amp; ECR2, welfare building completed.</li> <li>Erection of FDA system at Welfare Building done. Panel erection completed.</li> <li>PAC issued on 01.10.15.</li> <li>Protocol processed for CC.</li> <li>Pipe testing done.</li> <li>Testing of Firefighting equipment in all areas completed.</li> </ul>

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							<ul style="list-style-type: none"> <li>• <b>Commissioned in Sep'19.</b></li> </ul>
25.	Building illumination, earthing, area lighting & Bus Bars in shop of CRM-II	GE/Sharmila Entp.	9.10 Gross Cost – 9.50	10.64	17.02.11	Aug'12/ Mar'20	<ul style="list-style-type: none"> <li>• <b>PAC issued for RS bay on 19.08.17 (Part).</b></li> <li>• <b>PAC issued on Jul'18.</b></li> <li>• <b>CC issued on 09.03.2020.</b></li> </ul>
26.	Construction of Welfare & Canteen building	HSCL	10.8 + 0.89 (cost steel) Gross Cost – 10.50	11.25	10.07.11	Jan'13/ Dec'20	<ul style="list-style-type: none"> <li>- Welfare Bldg:-1st&amp; 2nd floor handed over to CRM-3. <ul style="list-style-type: none"> <li>o Approval of civil deviation for fdn obtained.</li> <li>o Electrical deviation in-principal approval for supply of lab eqpt. obtained.</li> </ul> </li> <li>- Canteen building: Inspection for handing over of canteen bldg with temporary power supply done.</li> <li>- Sub-Station Bldg: <ul style="list-style-type: none"> <li>o Balance supply- cable, bus duct, VCB.</li> <li>o HT cable laying from MSDS-9 to sub-stn bldg in progress</li> </ul> </li> </ul>
27.	Compressed Air Station (2 nos) Air volume : 200 Nm3/min. Discharge pressure-8kg/cm2 (g)	BOC	17.08 Gross Cost – 18.48	20.35	04.08.11	Jan'13 (Aug'13)	<ul style="list-style-type: none"> <li>• Both Compressors commissioned in Aug'13 ('B' compressor on 14.08.13 and 'A' compressor on 30.08.13)</li> <li>• <b>CC: sept'13</b></li> <li>• <b>PG : 14.10.15</b></li> </ul>
28.	Installation of Nitrogen storage Vessels for CRM-III Capacity : 5 nos of Nitrogen vessels of geometric volume 100 m3 (Change Order placed for Rs. 0.50 Cr) <u>Issues:</u> <ul style="list-style-type: none"> <li>• For vessels 1,2&amp;3 : Rectification of defects noticed during inspection is balance. Shifting and erection at site is balance.</li> <li>• Connection with main pipes of N2 for Vessel 1,2, 3 &amp; 4 &amp; Shot blasting, degreasing and painting of internal surface is balance.</li> </ul>	Confidence Petroleum	2.61 Gross Cost – 2.85	1.77	16.07.12	Jan'13 /Mar'21	<ul style="list-style-type: none"> <li>• Vessel-5&amp;6: Installation, Erection, testing and connection with pipes done.</li> <li>• Vessel-4 erection at site completed.</li> <li>• Vessel-1,2 &amp;3: Fabrication of vessels and its Radiography test of joints completed.</li> <li>• Contract of shot blasting under finalization by store shop.</li> <li>• CCOE clearance of vessel no 4,5&amp;6 by March'21.after shot blasting and inspection by Mecon.</li> </ul>

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29.	HT Cable Tunnel Ventilation  <u>Issue:</u> - Balance supply: Control and Power Cable, Cable Accessories and Earthing material, Earth Pit Material like GI Earth Strips and GI Wires. - Erection of Balance fans, PDB. Also, Cabling work is required for running of fans, Drainage pumps etc. - No work at site. Party was not responding. 3rd Engr Notice issued. Letter initiated to Mecon for RPN TS. Party agreed to start the work	Maxflow fans manufacturing (p) ltd.	1.2 Gross Cost –1.20	0.72	16.12.12	Apr'13/ Dec'20	<ul style="list-style-type: none"> <li>Design &amp; Engg– 100/102 nos done.</li> <li>Eqpt. Supply- Tube Axial flow supply fan with motor, Tube Axial flow exhaust fan with motor, PDB, Support Structure, Dry Panel Filter etc have been supplied.</li> <li>Erection: Tube Axial flow supply fan with motor, Tube Axial flow exhaust fan with motor (24/34 Nos.), PDB (6/7 Nos.) has been erected as per availability of front.</li> <li>Drawings for control cable submitted by M/s Max Flow. Under approval by Mecon. Mecon is treating this as extra work and claiming extra payment.</li> <li>Mecon has given comments on submitted drgs. But due to Covid-19 lockdown party is unable to re- submit drgs. after incorporation of comments.</li> </ul>
30.	Lab Glassware & Reagent	Prosperous World	0.0212	1.05		Dec'13 (-)	<ul style="list-style-type: none"> <li>LOA issued on 20.10.12.</li> <li>Inspection clearance awaited.</li> </ul>
31.	Lab Equipment (37 items) <u>Issue</u> <ul style="list-style-type: none"> <li>Balance supply: Radioactive material, coating weight determinator etc. NOC awaited.</li> <li>Electrical deviation under approval for power supply.</li> </ul>	Shiv Machine Tools	18.99	12.07	18.05.16	Nov'16/ Mar'21	<ul style="list-style-type: none"> <li>Basic engg- 23/25 nos. &amp; Detail engg- 55/66 nos.</li> <li>Supply -35/45 T done. Major items supplied at site.</li> <li>Erection of CNC lathe m/c , Milling m/c , UTM &amp; Bending Folding m/c done. 02 nos. of Shearing m/c and Sample punching m/c completed.</li> <li>Commissioning of UTM M/c 05T Capacity done with temporary power supply arrangement.</li> <li>Supply of Radioactive material depends on NOC from AERB which is being taken up by I&amp;A.</li> <li>Power supply for equipment required for trial run which is being finalised with HSCL as an additional work</li> </ul>
32.	Dumper cum Skip Loader	JMA stores	1.04			Jul'13 <b>(Dec'13)</b>	<ul style="list-style-type: none"> <li>LOA issued on 11.01.13.</li> <li>All 4 nos Dumper cum Skip Loader received at site.</li> <li><b>CC : Dec'13</b></li> </ul>
33.	Procurement of 02 Nos. of Trucks (10 T) & 02 Nos. of Dumpers (12 T)	Trucks: Ashok Leylan Dumper: JMA stores	0.53			Sept'13 <b>(Dec'13)</b>	<ul style="list-style-type: none"> <li>LOA issued on 30.03.13.</li> <li>2 nos. Trucks &amp; 2 Dumpers received at site.</li> </ul>
BSL Expansion	Material Transfer Equipment. Forklift- 6 Nos. <u>Issue</u>	Macrotech Eqpt	0.37		18.03.13 (LOA)	Sep'13 (-)	<ul style="list-style-type: none"> <li>4 no. Forklift supplied &amp; handed over.</li> <li><b>CC : Sept'13</b></li> </ul>

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	Re-ordering of rest 2 nos Forklift depends upon performance of 4 nos previously bought Forklift						
35.	Telecom inside New CRM complex (LSIS, VHF Voice Communication & Telephone Cable Network System facility)	BNA Technology, Bangalore	0.998 Gross Cost –1.00	0.74	19.11.12	Jul'13/--- To be foreclosed	<ul style="list-style-type: none"> <li>LSIS system installed-130/194 nos.</li> <li>Telephone connection given for 154/154 nos for new exchange.</li> <li>VHF set-94 nos. supplied and is under operation.</li> <li>Party is being called for early completion of remaining work.</li> <li>Meeting held with Telecom. To be foreclosed</li> </ul>
	<b>Blast Furnace-2 (part of Sustenance schemes)</b>						
36.	Up gradation of BF-2	Paulwirth/ L&T	805.45	693.31	17.12.07	Aug'09 (July'10)	<ul style="list-style-type: none"> <li>Blown in on 24.07.10.</li> </ul>
	<b>Steel Melting Shop-II</b>						
37.	<p>HM Desulphurisation Unit <u>Capacity:</u> 2 nos of De-sulphurisation stations proper. About 37 Heats of Ladle capacity 300 T per day. Hot Metal Quality – Sulphur: 0.005% average -0.002%min</p> <p><u>Issues</u></p> <ul style="list-style-type: none"> <li>Refurbishment issues of HMDS are to be resolved.</li> </ul>	Danieli Corus/ Tata Projects	58.50 (10.07)  Gross Cost –64.09	71.55	16.10.08	Apr'10/ Dec'20	<ul style="list-style-type: none"> <li>Trials of HMDS Station-1 completed in Jul'15 and of Unit-2 in Aug'15.</li> <li><b>PAC issued on 26.02.16.</b></li> <li>Further, upstream &amp; downstream projects are not ready for Commissioning of HMDS Project.</li> <li>Alternate Power source made available on 22.02.2018.</li> <li>M/s TPL was in Arbitration with SAIL and final award has been issued in favour of TPL on 10.09.18. M/s TPL and M/s Danieli Corus has been asked to submit the proposal for starting the pre-commissioning activities.</li> <li>For refurbishment claim, offer has been given by Consortium, which is on higher side (approx. 16 Crs. ). Meeting held with the consortium partner in June &amp; July'19 to resolve the issue.</li> <li>Consortium has pre-condition for submission of revised offer for refurbishment jobs which are in process of approval.</li> <li>Meeting held at Corporate Office on 20/21.01.2020 to resolve the issue regarding the pre-conditions raised by the consortium for submission of revised offer for refurbishment jobs:</li> <li>Commissioning payment to be made to M/s DCBV without bank guarantee as the same has already made to M/s TPL.</li> <li>Price variation payment to be made to M/s TPL, before actual issuance of CC.</li> <li>As discussed the CC payment to be made to M/s DCBV without BG and Interest bearing Advance for Rs.5.0 Cr.to be made to M/s TPL.</li> <li>PV payment to be made after actual commissioning of the project.</li> <li>1 No. TLC revamped and brought to TLRs for testing &amp; trial run.</li> </ul>

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38.	Supply & Erection of Refractories & Auxiliaries for Protection Lining in HMDS & New Torpedo Bay <u>Issues</u> Work is held up due to non-availability of front at new torpedo bay.	HN Singh Const+ HN Refractory	2.19	2.34	27.01.15	Jun'15/Dec'20	<ul style="list-style-type: none"> <li>Design &amp; Engg completed.</li> <li>Alumina bricks- 330000/330000 nos. supplied.</li> <li>Ref lining -240000/330000 nos done.</li> <li>Ref lining of pit -1 &amp;2 in HMDS bay done</li> <li>Balance work- Ref lining in new torpedo bay..</li> </ul>
39.	Torpedo Ladle Car <u>Capacity:</u> Torpedo Ladle Car- 8 nos of 340T capacity. De-bricking Machine-1 set and re-railing equipment- 1 set. <u>Issues</u> <ul style="list-style-type: none"> <li>Refractory lining for remaining 6 cars dependent on availability of 450T EOT cranes and railway track laying in HMDS Area.</li> <li>Party has claimed escalation (28%) for supply of balance 6 nos. refractory.</li> </ul>	QMMC/Narnco Changed to QQHI Co. Ltd.	40.77 (18.75) Gross Cost – 45.80	30.78	31.08.08	Aug'10 /Dec'20 Project is dependent on 450T crane & track laying	<ul style="list-style-type: none"> <li>Supply of all 8 nos. Torpedo Ladle and PLC, cable, control desk completed.</li> <li>Hot Metal Transfer through Torpedo ladle from BF to SMS-II converter started on 29.08.18. <ul style="list-style-type: none"> <li>Presently 2 nos Torpedo ladle are in operation.</li> <li>2 nos. waiting for de-bricking &amp; relining.</li> <li>For Balance 04 nos Torpedo Ladle refractory supply and lining to be done by party.</li> </ul> </li> <li>M/s Premier India has claimed escalation of 28% for supply of refractory. <ul style="list-style-type: none"> <li>VC has been done with the party &amp; has been asked to start the work</li> <li>Efforts are being made to close the contract on "As is where is" basis.</li> </ul> </li> <li>1 No. Torpedo Ladle Car revamped &amp; brought to TLRS for testing and Trial run.</li> </ul>
40.	EOT Cranes (Group-I:3nos) <u>Capacity:</u> - 1 no (450+100/20) T * 19 m span FG EOT Crane  -2 nos (450+100/16) T *25m span FG EOT Crane	Gr-I: HEC	63.37 Gross Cost –75.25	82.57	01.09.08	Mar'10/ Dec'20	<u>Crane-1:</u> <ul style="list-style-type: none"> <li>Load Test done successfully from 19 - 20/07/2018.</li> <li>Rope changing completed and crane put to use for Hot Metal handling on 29.08.18.</li> <li>During Hot Metal Handling, crack was observed on main hoist brake drum of 450T Crane. The repair of brake drum has been done; load testing completed and clearance for Hot Metal handling given by M/s HEC. New brake drum by HEC supplied at site. Installation of new brake drum completed.</li> </ul> <u>Crane-2:</u> <ul style="list-style-type: none"> <li>Mechanical– Gear box alignment (1/7 nos) done ; Rope drum: Disc alignment ½ nos done.</li> <li>Electrical –Forming of ALM-1 done with 415V.</li> <li>Drive panel testing is in progress.</li> </ul>
BSL Expansion	EOT Cranes (Group-II: 11 no ;4 EOT+7 under slung )	Gr-II: Anupam	22.85 Gross Cost – 25.96	0.51	2.10.08	Feb'10/ Dec'20	<ul style="list-style-type: none"> <li>2 nos. of Double girder crane &amp; 1 no. under slung crane erection completed.</li> <li>Part PAC for Torpedo ladle repair shop crane (20/5T) issued.</li> </ul>

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	<p><u>Capacity :</u> -1 no 20/5t*18 m span DG EOT Crane - 1 no 80/20 *20.8 m span DG EOT Crane -2 nos. 100/20 t *21 m span DG EOT Crane - 7 nos. (6 nos 10t + 1 no 5 t) under slung crane</p> <p><u>Issues</u> - Front not available for balance 6 nos U/Slung cranes - Party has claimed for additional repair &amp; refurbishing cost.</p>						<ul style="list-style-type: none"> <li>Erection is linked with completion of new torpedo bay Pkg-20 &amp; Tundish deskulling shop Pkg-32.</li> </ul>
42.	<p>Ladle, Ladle Stand &amp; Transfer Car (Ladle Stand -5 nos, Transfer Car-4 nos, Steel Ladle -2 nos, Hot Metal Ladle -4 nos.)</p> <ul style="list-style-type: none"> <li>Balance 2 nos. Transfer car and 1 no. Ladle stand in New Torpedo Bay.</li> </ul>	Mukand, Thane	24.72 Gross Cost – 28.06	28.60	1.09.08	Dec'09/ Dec'20	<ul style="list-style-type: none"> <li>2/2 nos. Steel Ladle, 2/4 nos. Hot Metal Ladle and 2/5 no. Ladle stand handed over to user dept. &amp; put to use.</li> <li>All 4/4 Ladle shifting done</li> <li>Erection and trial run of 2/4 nos. of Hot metal Transfer Cars in HMDS done. Car#2 put to use on 29.08.18 for transfer of Hot Metal ladle with load</li> <li>Testing of Ladle tilter done on 12.10.18. Ladle preparation done on 01.11.2018.</li> </ul>
43.	<p>Gas Holder, ESP &amp; Booster Fan complex</p> <p><u>Capacity:</u> Gas holder of capacity 80,000m<sup>3</sup> effective geometric volume. Dia: 55700mm, Height: 52600 mm, pressure: 200 mm, 2 nos. Booster fan 40000Nm<sup>3</sup>/h.</p> <p><u>Issue:</u> - compliance of recommendation of M/s NSC is to be done - Balance supply: Air washer system, HT cable, Soft water plant, LT control cable, Control valve &amp; Elect cable</p>	Gillanders Arbuthnot, Kol./Mother Well BridgeInl. Ltd.	102.66 (8.18) Gross Cost – 112.05	101.95	01.09.08	Sep'10 (Completed in Mar'16)  / Dec'20	<ul style="list-style-type: none"> <li>All work completed. PAC issued on 05.03.16.</li> <li>Work order placed on M/s National Safety Council (NSC) for conducting HAZOP study &amp; Dispersion Modeling. M/s NSC submitted final reports for Hazop and study Dispersion modeling.</li> <li>Gas Holder is ready for charging. For regular recovery of LD Gas, compliance of recommendation of M/s NSC is to be done. In-principle approval has been obtained and is being executed through Works Divn.</li> <li>Fabn of HNRV in progress at Strl shop; Fabrication / Bending of plate in progress. Fabrication of Outlet duct in progress.</li> <li>Civil work of HNRV (Hydraulic Non Return Valve) is in progress.</li> <li>Procurement of sensors &amp; Gas Analyzer is in process.</li> <li><b>For trial testing of gas holder, recovery of 14000 m<sup>3</sup> LD gas done on 30.01.2020 with converter-2 of SMS-2</b></li> </ul>

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	tray.						<ul style="list-style-type: none"> <li>GCP PH: All column Foundation complete. Civil work for Pump house and cooling Tower in progress. Piping work from pump house to cooling Tower is in progress.</li> <li>Erection of under slung crane in progress.</li> </ul>
44.	Civil & Structural works for SMS-II (Change Order placed for Rs.75.48 Cr)  <u>Issues</u> <ul style="list-style-type: none"> <li>Balance structural work in HMDS Main bldg</li> <li>Balance civil work for Pit, Bldg str fabrication &amp; erection for New Torpedo Bay (11m)</li> </ul>	Transtech Turnkey Pvt. Ltd.	171.81 Gross Cost – 171.81	135.66	25.08.08	Apr'10/Dec'20	<p><b>HMDS Main bldg:-</b></p> <ul style="list-style-type: none"> <li>Strl. Work 90% done.</li> <li>Balance structural work in progress.</li> <li>Party has submitted drg. For fume duct under approval by Mecon.</li> </ul> <p><b>New Torpedo Bay (11m)</b></p> <ul style="list-style-type: none"> <li>8M wall completed.</li> <li>Balance work: civil work for Pit, Bldg str fabrication &amp; erection.</li> </ul>
45.	Torpedo ladle heating, drying & cooling (2 nos of TLC heating stations and 1 no. of cooling station)  <u>Issues</u> – Balance work- Automation work.	Ador Welding	2.35 Gross Cost – 2.63	2.12	1.09.08	Apr'09/ <b>(May'19)</b>	<ul style="list-style-type: none"> <li>Both heating stn 1 &amp; 2 put in use on 22.08.18 &amp; handed over to operation.</li> <li>Party is not responding for automation work. M/s Ador is demanding refurbishment cost and milestone payment for further work.</li> <li>Engineer's notice issued on 21.03.20.</li> <li>Under operation in manual mode.</li> </ul>
46.	Power Distribution Package  <u>Issues</u> – Charging of balance 3 Transformers of LTSS-1 dependent on shutdown.	ABB	16.45 Gross Cost – 18.41	15.96	31.08.08	Oct'09 <b>(Oct'11)</b>	<ul style="list-style-type: none"> <li><u>LTSS-I</u>: Transformer-1 charged on 23.02.11 &amp; Transformer -2 on 04.03.11.</li> <li>New panel of 6.6 kV section -3 hooked-up with existing system on 06.04.11.</li> <li><u>LTSS-II</u> - Transformer no. 2 charged on 14.07.10.</li> <li><u>MSDS-VI</u>- Erection of 3.3.KV system &amp; 4 MVA Transformer completed and 3.3 KV system charged on 28.10.10.</li> </ul>
47.	Dismantling / Relocation of 4 nos. of N2 Vessels (100 m3)  <u>Issues</u> Under process for foreclosure	JK Enterprises, BS city	4.59 Gross Cost – 4.73	3.97	22.08.08	Feb'09 /* (*Contract to be foreclosed)	<ul style="list-style-type: none"> <li>1 no. Nitrogen vessel from Structural Shop supplied &amp; erected at site.</li> <li>All 3 nos Tapping of N2 completed during S/d of SMS II on 13.05.13.</li> <li>3rd party inspection of N2 vessel is awaited from Mecon.</li> <li>HP &amp; LP nitrogen line under use and feeding nitrogen in ID fan complex and gas holder.</li> <li>After completion of rail track job of HMDS for movement of TLRs, it is observed that relocation of Nitrogen vessel has not been required. Under review by M/s MECON.</li> </ul>
48.	Electrics	IEP	2.64	2.23	04.11.08	July'09/Dec'20	<ul style="list-style-type: none"> <li>Torpedo ladle repair shop: Electric Work of Torpedo Ladle</li> </ul>

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	<u>Issue:</u> Front is dependent on completion of Bldg. extn. of SMS II & CCD		Gross Cost –2.75			(Linked with HMDS)	<ul style="list-style-type: none"> <li>repair shop is completed.</li> <li>Desulphurisation bay: Electric Work in Desulphurization Bay -50% completed. After several correspondence &amp; VC party agreed to supply eqpt. By Nov'20 &amp; start work after supply.</li> <li>Tundish repair shop: Electric work to be started after completion of civil work of TRS by M/s Geetanjali (Pkg-32*).</li> <li>New Torpedo bay: Electric work to be started after completion of civil work of NTB by M/s TTTPL (Pkg-20*).</li> </ul>
49.	UPS system at CCD Complex	Hi-relElectronic	1.65 Gross Cost –1.87		30.08.08	Mar'09	<ul style="list-style-type: none"> <li><b>Commissioned on 23.03.09.</b></li> </ul>
50.	102 T Slab Car (10 no. slab cars)	Simplex Engineering & Foundry Works	11.22 Gross Cost – 12.78	21.77	31.08.08	Sept'09 <b>(Nov'10)</b>	<ul style="list-style-type: none"> <li><b>Completed in Nov'10.</b></li> </ul>
51.	Steel Ladle Drier and Cooler  <u>Capacity :</u> Steel Ladle drier 1 no. - Capacity of Steel ladle 300 T, Heating time for freshly lined ladle 10-11 hr, Duration of heating 4-5 hrs, temperature-1200°C. Ladle cooler 1 no.- 300 T ladle capacity, cooling time 2hrs. <u>Issues</u> Front for physical execution of work is not available	Wellman Wacoma Limited	2.14 Gross Cost – 2.31	1.47	05.02.10	Feb'11 (linked to site clearance by TTTK)	<ul style="list-style-type: none"> <li>Design &amp; Engg- 77/85 nos. done</li> <li>As Front could not be provided to party, Party has gone for arbitration</li> </ul>
52.	De-bricking Machine-SMS-II <u>Capacity:</u> 125 HP (93 KW)	GradallInds	2.09 (1.98) Gross Cost –2.10	2.59	12.05.10	May'11 <b>(Jan'12)</b>	<ul style="list-style-type: none"> <li>Trial run done and commissioned in Nov'12.</li> </ul>
53.	Slag pot car- SMS-II <u>Issues</u> Proposal has been processed for dropping the project.	AMT International	0.79 Gross Cost – 0.88		09.08.10	May'11 (proposal to be dropped)	<ul style="list-style-type: none"> <li>Detailed Engineering completed.</li> <li>Considering logistics and movement related problems, the package was kept in abeyance.</li> </ul>
54.	Extension of trolley line in HMDS building of SMS-II	Sharmila Enterprisers	0.25 Gross Cost – 0.25	0.32	15.12.10	Dec'11/Dec'20	<ul style="list-style-type: none"> <li>Change order issued on 29.03.18 for extra job. Isolator (channel fixing) work done.</li> <li>Erection of Bus bar and DSL support done.</li> <li>Trial run of HMTC done.</li> <li>Copper Cable &amp; Termination kit supplied at site.</li> <li>All balance work completed. Ready for commissioning.</li> <li><b>PAC issued in Aug'20.</b></li> </ul>



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55.	Extension of LD gas pipeline from SMS-II area to TPP area	UB Engg	12.32 +3.92 (cost of steel) Gross Cost – 13.04	16.30	06.04.11	Apr'12 /Dec'20	<ul style="list-style-type: none"> <li>All Civil, Structural, Mechanical eqpt along with Utility Pipeline (Nitrogen &amp; Water) erection completed.</li> <li>Electrical and instrumentation work completed.</li> <li>Integrated testing to be done at the time of commissioning of gas holder.</li> </ul>
56.	Electrics for extension of SMS-II CCD shop <u>Issue:</u> - Front is dependent on completion of Bldg ext. of SMS II & CCD (under Pkg-7)	IEP	1.1 Gross Cost –1.21		12.04.11	Apr'13/ Dec'20 <b>(to be closed)</b>	<ul style="list-style-type: none"> <li>Design &amp; Engg -13/27 nos.</li> </ul>
57.	Tundish de-skulling shop <u>Issue</u> -Erection of equipment shall be done after const. of Tundish Deskulling shop	Graduate Agro	8.53 Gross Cost – 9.39	10.61	29.06.11	Jun'12/Dependent on completion of civil works of the shop	<ul style="list-style-type: none"> <li>Design &amp; Engg. -36/38 nos. approved.</li> <li>All equipment supplied. [Tundish lifting Transverse (2 no.), Rubbish container (3 nos.), 2 nos. Tundish lifting Transverse stand-2 nos. and Tundish deskulling stand along with Hydraulic system.</li> <li>Commissioning will be done after completion of Civil &amp; strl. work in Tundish Deskulling shop (Pkg-32).</li> </ul>
58.	Civil Structural work for New Tundish De-skulling Shop-SMS-II	Geetanjali	5.31+3.47 (cost of Steel) Gross Cost – 5.89	8.09	10.07.11	July'12 / Dec'20	<ul style="list-style-type: none"> <li>Design &amp; Engg-70/75 nos. completed.</li> <li>Piling- 180/180 nos. completed.</li> <li>Fabrication 1000/1200 MT completed,</li> <li>Structures ercn-825T /1143T done.</li> <li>Erection of Perlins &amp; post in progress.</li> <li>Column erection 18/18 nos. and Crane girder 16/16 nos. completed.</li> <li>Assembly of roof truss in progress. 5/17 nos roof truss erection completed.</li> <li>Engineers notice issued to party on 20.03.20.</li> <li>Fabrication of truss is in progress.</li> </ul>
59.	Under slung crane for CCS & SMS-II complex <u>Issue:</u> PBG not submitted. Party has become non-responsive and case referred to T&C	Robin Engg	0.51 Gross Cost – 0.51		05.08.11	Nov'11(linked to Building extension pkg.)	<ul style="list-style-type: none"> <li>PBG not submitted. Party is not responding.</li> <li>To be closed by Dec'20</li> </ul>
60.	Building extn. of SMS-II & CCD	Geetanjali	5.38+ 4.12 (cost of steel) Gross Cost –5.91	5.88	10.07.11	Nov'12 / Dec'20 (to be foreclosed)	<ul style="list-style-type: none"> <li>Design &amp; Engg in progress-66/70 nos.</li> <li>SMS-2: Piling –all 42 nos. completed. Foundation work - 2/3 no. done.</li> <li>CCD: Piling -69/69 nos. done.</li> </ul>
61.	Augmentation of water supply facilities at GCP, SMS & CCD shop <u>Issue:</u> - Progress is very slow.	OEPC Pvt. Ltd.	31.18 Gross Cost – 31.18	20.41	27.11.12	Jun'14/Dec'20	<ul style="list-style-type: none"> <li>The project was on hold due to dispute / objection raised by the agency on MOC of pipe and settlement of commercial implications arising due to use of CS pipe in place of SS pipe.</li> <li>In-principle approval obtained on 23.03.16. BSL has informed agency to go ahead with CS pipe. Communicated to</li> </ul>

SI.No	Package	Party	Cost in Rs. Cr Net of CENVAT (FE) / Gross Cost	Expenditure upto Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status BSL
	<ul style="list-style-type: none"> <li>– Pipeline Supply of Soft water has an ambiguity in contract &amp; GTS. MECON recommended to accept the carbon steel with financial implication. However as per contractor no commercial settlement is required for using the carbon steel.</li> <li>– Balance supply: Air washer system, HT cable, Soft water plant, LT control cable, Control valve &amp; Elect cable tray.</li> </ul>						<p>MECON on 30.03.16.</p> <ul style="list-style-type: none"> <li>• Civil work for Pump house and cooling Tower in progress.</li> <li>• Piping work from pump house to cooling Tower is in progress.</li> <li>• GCP PH: All column Foundation complete</li> <li>• Civil work for Pump house and cooling Tower completed.</li> <li>• Erection of Pump &amp; motor inside PH completed.</li> <li>• Cooling tower basin completed.</li> <li>• Piping work from pump house to cooling Tower is in progress.</li> <li>• Erection of under slung crane is in progress.</li> </ul>
62.	ID Fan Complex	SMS- Siemag	83.13 (20.78) Gross Cost –90.14	78.33	11.02.13	Feb'15 /Apr'17 <b>(both ID fans put into operation)</b>	<ul style="list-style-type: none"> <li>• ID Fan-2 hooked up with existing converter. Converter put in to operation on 16.02.2017 with new ID fan.</li> <li>• Hooking up of ID Fan-1 to the existing stream of converter-1 done and working smoothly since 27.04.2017. With this both new ID fans are brought into the stream.</li> <li>• <b>CC issued on 10.01.18.</b></li> </ul>
63.	Hydraulic Shovel	Telco Const.	1.04 Gross Cost –1.05		18.09.12	Oct'13 <b>(Jun'13)</b>	<ul style="list-style-type: none"> <li>• Hyd shovel supplied &amp; handed over to CCS/OG on 07.06.13.</li> </ul>
	<b>Power Distribution</b>						
64.	<p>Extra high voltage power supply (132KV Switchyard)</p> <p><u>Issue:</u></p> <ul style="list-style-type: none"> <li>– Crossing clearance at DVC end awaited.</li> <li>– Charging of line after CEA clearance &amp; shutdown by DVC</li> </ul>	Siemens	178.54 Gross Cost – 199.84	157.60	30.08.08	<p>May'10 /Jan'16 <b>(Mar'12 - Supply to CRM-III completed)</b></p> <p>(Final commissioning dependent on availability of 220kv supply at MRS)</p> <p>(Catg. C)- Mar'21</p>	<ul style="list-style-type: none"> <li>– Change order to M/s Siemens for deleting MSDS-8 and new Transmission line issued on 07.01.14. The contract has been segregated to 5 categories namely:</li> <li>– Catg-A: CC issued wef Jan'14.</li> <li>– Catg-B: CC issued wef Dec'14.</li> <li>– Category D (MSDS-8) –Deleted.</li> <li>– Category E (Supervision services for charging of MRS from 220kv DVC source when available) –comple time -2M. Transmission line from MRS to MSDS-1 charged on 29.11.16.</li> <li>– Category C: MSDS-1 commissioned on 29.11.19</li> </ul> <p><b><u>Transmission Line from MRS to MSDS-8:</u></b></p> <ul style="list-style-type: none"> <li>– MSDS-1 commissioned on 29.11.19.</li> <li>– Transmission Line from MRS to MSDS-8:</li> <li>– Tower erection: 19/19 nos. completed.</li> <li>– Stringing of OPGW (Optical ground wire) from AP01-09 and AP10-17 completed.</li> <li>– Crossing clearance from DVC received for stringing between</li> </ul>

SI.No	Package	Party	Cost in Rs. Cr Net of CENVAT (FE) / Gross Cost	Expenditure upto Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status BSL
							tower AP09 &10. - Stringing between MRS to AP01 completed.
65.	HV System	Siemens	38.38 Gross Cost – 41.97	41.28	21.07.10	Sept'11/ Apr'13 ( <b>Mar'12 Supply to CRM-III completed</b> )	<ul style="list-style-type: none"> <li>11KV Power supplied to CRM-III.</li> <li>6.6KV Power supplied to CHSGP-6.</li> <li>PAC issued.</li> <li>FAC: Aug'18</li> <li>Package is put to use from Jun'13.</li> </ul>
66.	Leveling of MRS area for EHV package	HSCL	0.69 Gross Cost – 0.699		24.11.10	<b>Apr'11</b>	<ul style="list-style-type: none"> <li>work completed</li> </ul>
	<b>Cast House Slag Granulation Plant for BF 1,2 &amp; 3</b>						
67.	Main Package(PKG-1) (CHSGP for six cast houses of BF#1,2&3.)	Zuberi Engg./HNSC	58.6 Gross Cost – 62.49	67.63	28.04.10	Oct'12/Dec'20	<ul style="list-style-type: none"> <li>CH -3-CC issued on 3.3.16.</li> <li>CH-6- CC issued on 6.8.13.</li> <li>CH-5- CC issued on 8.1.18.</li> <li>CH-4: CC issued on 05.01.20</li> <li>CH-2: commissioned in Aug'20</li> <li>CH-1: Foundation faulting with existing electrical room &amp; storm water line under examination by CET. CET has requested the party to submit revised drawing for new foundation</li> </ul>
68.	Electrical, Inst & automation System (Pkg-2) CHGP – BF-1, 2 &3  <u>Issues :</u> - The electrical contractor M/s IEEP performance is not satisfactory	IEEP	12.88 Gross Cost – 13.55	13.53	22.04.10	Oct'12/Dec'20	<ul style="list-style-type: none"> <li>PCC, MCC-2 nos. &amp; 1.6MVA Transformer-2 nos. charged.</li> </ul>
69.	Granulated Slag Disposal System (pkg 3) (Job of 26 belt conveyors of 800 TPH; 1200 mm belt width & 1.8 m/s speed, conveyor galleries and junction houses)  <u>Issue :</u> - M/s TTTK had delayed the package which affected the overall completion. Several notices were issued at Plant and Corporate level. No adequate manpower at site.	Transtech	127.3 Gross Cost – 142.12	118.17	28.04.10	Oct'12/Dec'20	<ul style="list-style-type: none"> <li>Total no of conveyors-31 <ul style="list-style-type: none"> <li>- 11/31 nos conveyors installed.</li> <li>- 5/15 nos. Jn. house completed.</li> </ul> </li> </ul>

SI.No	Package	Party	Cost in Rs. Cr Net of CENVAT (FE) / Gross Cost	Expenditure upto Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status BSL
	<ul style="list-style-type: none"> <li>- Disposal system at Junction House-22 which is currently in operation is not able to manage generated granulated slag due to the limited storage space and handling difficulties. With addition of CH-3 granulated slag, the handling at JH -22 has become much more difficult.</li> <li>- Separate route from JH-24 to JH-27 finalised with CET, MECON &amp;BF to avoid critical areas of retention pond and SMS-III. Revised General Layout Drg. has been approved for JH-24 to JH-27 due to route diversion from the original scheme.</li> <li>- Finalization of change order due to re-location of one Junction House and re-routing of 3conveyors</li> <li>- Direct payment being resorted to the sub-contractor of TTTK for completion of balance works.</li> </ul>						
	<b>Infrastructure facilities</b>						
70.	<p>Construction of Railway track inside the plant premises in new CRM area (51 A) (Infrastructure)</p> <p>(Rolling mills are type-II track-dismantling &amp; relaying of existing tracks-8.5 km &amp; laying of new tracks-2.5 km.; CRM area-about 1.2 km of type-II tracks; Tippler area-about 4 Km type-II track)</p> <p><u>Issue</u></p> <ul style="list-style-type: none"> <li>- Work stopped by the party since Jun'15.</li> </ul>	ARSS	23.32 Gross Cost – 27.06	22.13	03.06.10	Dec'11/ RPN action initiated	<ul style="list-style-type: none"> <li>• 15.70/16.2 km rail supplied and 14 km laid.</li> <li>• Erection of Track no-449A completed in Oct'15.</li> <li>• Construction of new track no 430B completed in Oct'15 &amp; 430C in Apr'16.</li> <li>• Work stopped by the party since Jun'15.</li> <li>• Extension given till Sep'16, however no progress of work by the party. RPN notice issued in Mar'17.</li> <li>• As no commitment given and job not started, engineers notice issued in June'17 and August'17.</li> <li>• M/s ARSS has requested for conciliation and have appointed their nominee.</li> <li>• Balance work is under RPN.</li> <li>• TS, Eligibility Criteria, assessment of balance work estimate not yet received from Mecon even after several reminders.</li> </ul>

SI.No	Package	Party	Cost in Rs. Cr Net of CENVAT (FE) / Gross Cost	Expenditure upto Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status BSL
	– Balance laying of rails and defect liquidation, supply of Panel for signaling are yet to be done.						<b>Party has gone for arbitration, SAIL/BSL to submit statement of defence.</b>
71.	<p>Rehabilitation &amp; up-gradation of existing tracks inside the plant premises (Infrastructure)</p> <p>(Relaying of tracks with 60 kg rails- 43.50 Km. turn out 1 in 8.5 with 60 kg rails (55 nos), turnout 1 in 7 with 60 kg rails, 2 in 7 diamond crossing with 60 kg rails (5 nos), 30 Deg diamond crossing with 60 kg rail)</p> <p><u>Issue</u></p> <ul style="list-style-type: none"> <li>– Work stopped by the party since Jan'15.</li> <li>– Pkg is under foreclosure. Track measurement is in progress</li> <li>– Recover Process (RP) action is being initiated.</li> </ul>	ARSS	<p>43.10 + 22.19 (cost of rails for both ARSS packages) Gross Cost – 47.89</p>	42.84	03.06.10	<p>Jun'12/ Pkg is under foreclosure.</p>	<ul style="list-style-type: none"> <li>• 41.1/43.5 km rail supplied and 36 km laid. 13 km handed over to operations.</li> <li>• Pre-tipling Track of Wagon Tippler no-4 and Rehabilitation work at track no 1019 in SMS area completed.</li> <li>• Work stopped by the party since Jan'15</li> <li>• M/s ARSS had shown their inability in execution of the balance work and requested for closure of the contract as the validity of the contract already expired on <b>31.03.2015</b>.</li> <li>• BSL had insisted the Party to complete the balance jobs of 51A, as this is a prioritized area.</li> <li>• Engineers notice issued in June'17 and August'17.</li> <li>• Meanwhile, ARSS has requested for conciliation and have appointed their nominee. Corporate law has advised to settle the dispute through conciliation. Conciliator has also been appointed by BSL.</li> <li>• <b>Balance work is under RPN. Party has gone for arbitration,</b></li> </ul>
72.	<p>Interplant and in-shop pipeline for CRM-III (Change Order placed for Rs. 0.51 Cr)</p> <p><u>Issue</u> Balance Works:</p> <ul style="list-style-type: none"> <li>– Steam pipeline from TPP : 2 km balance</li> <li>– O2 &amp; N2 line (for BF Area): 3 km balance.</li> <li>– Work is stopped from Aug'16.</li> <li>– Walkway for mixed gas line, Electrical &amp; instrum work for operation of valves for CRM-3.</li> </ul>	ACE Pipeline	<p>43.3 + 18.2 (cost of Steel)  Gross Cost – 46.01</p>	45.68	19.11.10	<p>Mar'12/ Dec'20</p>	<ul style="list-style-type: none"> <li>• Charging of Steam, Mixed gas, compressed air, Nitrogen, Propane for CRM-3 completed.</li> <li>• 21/31 km pipeline done.</li> <li>• Part CC (55%) given on 12.09.15.</li> <li>• The process for pre-closure of the contract is under process, likely by Dec'20.</li> <li>• Re –conciliation of steel in progress</li> </ul>
BSL Expansion	<b>Up-gradation of stoves for BF-5</b>	Various	<p>63.07 Gross Cost – 68.58</p>	11.22	--	<p>June'11 <b>(Mar'12)</b></p>	<ul style="list-style-type: none"> <li>• Blowing of BF-5 after its capital repair started on 11th Mar'12 with two furnaces. Heating &amp; drying of 3rd stove completed on 23.3.12 and put in operation.</li> <li>• <b>FAC: Dec'13</b></li> </ul>

SI.No	Package	Party	Cost in Rs. Cr Net of CENVAT (FE) / Gross Cost	Expenditure upto Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status BSL
	<b>CRM-I</b>						
74.	ARP for PL-1 of CRM-1 <u>Capacity :</u> process a waste pickle liquor of 5.5 m3 /h	ISSI	40.89 (1.80) Gross Cost – 42.86	34.06	30.04.11	Dec'12 <b>(Sep'14)</b>	<ul style="list-style-type: none"> <li>PAC issued on 24.06.14.</li> <li>Commissioning certificate issued on 24.09.14.</li> <li><b>FAC: 03.01.17</b></li> </ul>
75.	Conversion of sulphuric acid pickling line to HCL pickling	Tenova/Sunag	62.14 (27.29) Gross Cost – 65.05	76.39	10.07.11	Jan'13 / <b>Jan'16</b>	<ul style="list-style-type: none"> <li>50 days Shutdown started from 14.08.15.</li> <li>Major works completed in Oct'15</li> <li>1st Pickled coil processed on 03.11.15.</li> <li><b>CC issued on 05.01.16</b></li> </ul>
	<b>HSM</b>						
76.	Replacement of pusher type RHF- 1 by walking beam furnace	Fivestein	65.04 Gross Cost – 68.49	66.95	28.09.11	Sept'13/ <b>May'17</b>	<ul style="list-style-type: none"> <li>Furnace lighted-up on 25.05.17 and 1st slab Rolled-out on 28.05.17. PAC issued on 29.05.17.</li> <li>L-2 Automation Establishment -23.11.17</li> </ul>
77.	Civil work for RHF-1	BSBK	9.6 Gross Cost –10.01	14.92	30.08.11	Aug'12/ <b>Dec'16</b>	<ul style="list-style-type: none"> <li>All works completed in Dec'16.</li> <li>Work delayed initially, as Rock encountered on the discharge end of RHF-1 had delayed the job and subsequent hand-over of the site to technological contractor.</li> </ul>
78.	Up-gradation of Roughing Mill Area of HSM Capacity-4.5 MTPA; 13,433 TPD (Installation of new 2Hi Roughing Mill with heavy edger at location R-2 / E-2, Revamping of existing stands R-3,4&5 with hydraulic work roll changing system, New short stroke hydraulic AGC in R-5, new automation system, new width gauges, new passive heat shield on delay table with up- graded QWRC etc.,	Danieli & C	496.27 (311.52) Gross Cost – 558.54	697.05	07.01.12	Jan'14/ <b>Sep'15</b>	<ul style="list-style-type: none"> <li><b>PAC: 07.10.15</b></li> <li><b>CC: 10.01.16. certificate issued on 19.2.16</b></li> <li><b>PG: 10.07.17</b></li> </ul>
79.	3 new Roll Grinding machines in RGSB for HSM	Praise machinery	68.41 (34.23) Gross Cost – 71.25	64.53	28.05.14	Dec'15/ <b>(Jan'20)</b>	<ul style="list-style-type: none"> <li>Erection of 1 no combo grinding M/c completed. Testing &amp; commissioning completed in Sep'17. PAC issued on 27.01.18 wef 07.07.17. Combo grinding Machine- put into operation from Sep'17.</li> <li>Lathe M/c: Put in operation in Aug'17.</li> <li>Small grinder m/c (1st): Put in operation in Mar'18.</li> <li>2nd small grinder: T/run of 2nd small grinder is completed. Put in use by operation in Aug'19. CC test completed.</li> <li><b>CC issued on 18.02.2020 with effect from 22.12.2019..</b></li> </ul>
	<b>Iron Zone</b>						
80.	Augmentation of BF High line	BHEL	48.64	47.46	30.09.11	Mar'13 / Oct'20	<ul style="list-style-type: none"> <li><b>43/47 nos. Conveyors upgraded and put in use.</b></li> </ul>

SI.No	Package	Party	Cost in Rs. Cr Net of CENVAT (FE) / Gross Cost	Expenditure upto Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status BSL
	conveying system <u>Issues:</u> - Delay in getting shutdown of conveyors for up-gradation work. - Design Issue of space constraint in balance 4 nos. of Shuttle Conveyors.		Gross Cost – 52.37				<ul style="list-style-type: none"> <li>Out of 4 remaining Conveyors, 1 conveyor will be erected subject to availability of Shutdown.</li> </ul>
81.	Revamping of Sinter machine no.1 for productivity enhancement	Tyazhaprom Export	75.16 (40.96) Gross Cost – 77.87	99.76	10.12.11	Dec'12 (Jan'15)	<ul style="list-style-type: none"> <li>Sinter Machine no-1 put into operation on 08.01.15.</li> </ul>
82.	Replacement of 2 nos. of Exhausters for Sinter band-1 <u>Issues:</u> Commissioning of Exhauster-2 is linked with comm. of ESP-2 by M/s Unicorn/ HNCPL.	Bengal Tools, Andrew Yule	17.84 Gross Cost – 19.36	10.58	23.09.12	Dec'14/ linked to ESP-2 commissioning (likely by Dec'20)	<ul style="list-style-type: none"> <li>Eqpt erection: 960/1000T done.</li> <li><b>Exhauster-1</b> put on operation on 29.10.17 after 80 Days of S/d for replacement of exhauster no-1 by higher capacity exhauster.</li> <li><b>Exhauster# 2:</b> S/d received on 18.10.19.</li> <li>Hi-pot testing of motor done on 13/03/20.</li> <li>Connection of outlet duct of exhauster-2 to common chimney of all exhauster done on 21&amp;22.04.20.</li> <li>PLC expert awaited.</li> </ul>
	<b>COBPP</b>						
83.	Replacement of Ammonium Sulphate Plant for BPP <u>Issues:</u> - Balance supply- Bucket elevators, lighting fixture, Instrumentation item etc.	Bengal tools	88.25 Gross Cost – 94.60	82.77	10.12.11	Dec'13 / Dec'20	<ul style="list-style-type: none"> <li>1st Engineer's notice issued on 22.02.20.</li> <li>Ercn. of Pump 42/48 done.</li> <li>Centrifuge bldg: Finishing work in progress.</li> <li>Erection of Gas pipes – 900 /1000 M done.</li> <li>Welding of gas pipe in progress.</li> <li>Erection of utility pipeline 4.2 /7.5 Km done.</li> <li>FBD(Fluidised Bed drier) area civil work –all 8 nos. foundations completed.</li> <li>1400MB out let Pipe connected with (BRP ) Plant</li> <li><u>Storage shade</u>-(Erection of 15 columns) : Excavation for col. foundation started &amp; 3 Raft casting of column done.</li> </ul>
84.	Raw Material Handling System	ZuberiEngg/ HNCPL/TRF	107.35 Gross Cost – 117.29	97.79	31.12.11	Dec'13/ (Nov'19)	<ul style="list-style-type: none"> <li>Trial run of Wagon Tippler-5 in load completed and approx. 14000 MT raw materials tipped through Wagon Tippler no. 5.</li> <li><b>Part PAC issued in May'18.</b></li> <li>Wagon Tipler-5 put in operation.</li> <li><b>PG Test successfully completed on 03.09.19.</b></li> <li>In-principle approval for Deletion of IOSB obtained.</li> <li>Out of 4 nos. Shuttle Conveyor, 2 nos. completed. For 2nd Shuttle conveyor (PKP20-1), Shuttle modification, platform cutting for feeding KP4-0 &amp; Modification in chute of Conveyor KP20-1 completed during S/d from 13 to 15.03.19 &amp; handed over on 15.03.19</li> <li><b>CC issued on 26.11.19.</b></li> </ul>

SI.No	Package	Party	Cost in Rs. Cr Net of CENVAT (FE) / Gross Cost	Expenditure upto Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status BSL
	Enabling Packages		192.25 Gross Cost – 193.48	87.77			



## Expansion of IISCO Steel Plant

1. **'In-Principle' Approval** : Jul'06
2. **Final Approval** : 5.9.2007 / 31.1.2008 / 22.2.08 / 27.6.2008
3. **Cost (in crore):**
  - a) Indicative cost (Jul'06) : Rs.8871 (Net of Cenvat benefit of Rs.720.82 crore)  
FE component: Rs.745.00 crore
  - b) Approved Cost (Sep'07) : Rs.12,743 (Net of Cenvat benefit of Rs.1452.74 crore)  
FE component: Rs.2274.22 crore
  - c) Approved Cost (Jul'08) : Rs.14,443 (Net of Cenvat benefit of Rs.1630.74 crore)  
FE component: Rs.2609.03 crore
  - d) Updated Cost (Feb'11) : Rs.16,408 (Net of Cenvat benefit of Rs.1553.01 crore)  
FE component: Rs.2828.06 crore
  - e) Revised Cost (Oct'19) : Rs.19,234.56 (Net of Cenvat benefit of Rs.1567.02 crore)  
FE component: Rs.3180.18 crore
  - f) **Expenditure (Till Sep'20) : Rs.19,006.20 crore (gross)**
4. **Approved Schedule** : Dec'10 (3 converters)  
Actual : Dec'14 (Integrated process route in Operation)

### 5. **Production (Mtpa)**

Item	Installed Capacity (1955)	2005-06	After Expansion	2016-17	2017-18	2018-19	2019-20	2020-21 Upto Sep'20	ABP 2020-21
Hot Metal	0.85	0.78	2.91	1.809	2.055	2.20	2.502	0.957	2.80
Crude Steel	0.50	0.43	2.50	1.396	1.802	1.888	2.071	0.827	2.60
Saleable Steel	0.42	0.31	2.39	1.338	1.686	1.907	2.0926	0.828	2.512

### 6. **Techno-economic parameters**

Item	Base case 2005-06	After Expansion
Coke/ CDI Rate (kg/ tHM)	786	410/ 150
BF Productivity (t/m <sup>3</sup> /d)	0.86	2.24
Specific energy (Gcal/tcs)	8.55	5.46
Manpower Productivity (tcs /man/year)	56	325

### 7. **Facilities**

- MECON is the Consultant cum Project Manager (including Project Management and Construction Management services) of ISP Expansion
- All major facilities of new stream to produce 2.7 Mtpa Hot Metal and 2.5 Mtpa Crude Steel, completed as below:
  - ✓ Raw Material Handling System (to handle 12 Mtpa of Raw Material) in Jun'12
  - ✓ New Coke Oven Battery-11 (7 m tall, 2 x 37 ovens) Complex in Feb'13
  - ✓ Sinter Machines (2x204 m<sup>2</sup>) in Dec'12/ Jan'13
  - ✓ New Blast Furnace(4160 m<sup>3</sup> useful volume and associated facilities in Nov'14
  - ✓ 3x150 t Basic Oxygen Furnace Converters, in Oct'14/ Nov'14/ Aug'16
  - ✓ 2x6-strand Billet Casters (1.67 Mtpa) in Dec'13/ Oct'14
  - 1x4-strand Beam Blank/ Bloom Caster (0.83 Mtpa) in Apr'15
  - ✓ Wire Rod (Rate Cap.0.5 Mtpa/ Cap. with Hot Charging 0.55 Mtpa) in Mar'13 & Bar Mill (Rate Cap. 0.75 Mtpa / Cap. with Hot Charging 0.90 Mtpa) in Feb'15
  - ✓ Universal Section Mill (Rate Cap. 0.6Mtpa/ Cap. with Hot Charging 0.85 Mtpa) in Jun'15

Other linked facilities like 2x750 tpd Oxygen Plant and Power & Blowing Station have been completed.

### 8. **Present Status**

- Hon'ble Prime Minister laid the foundation stone on 24.12.06 at ISP, Burnpur.
- Environmental clearance was granted by Ministry of Environment & Forests (MoEF) for ISP Expansion vide letter dated 7.8.2007.
- Power Purchase Agreement was signed with Damodar Valley Corporation (DVC) for 5 MVA power. 220 kV incoming Power Line for new Main Receiving Station (MRS) of ISP, Burnpur was charged from DVC Sub-Station on 30.06.2011. The DVC transmission line was commissioned & 220 kV Power Supply commenced on 13.7.11. Power supply from DVC was augmented from 5 MVA to 30 MVA and from 30 to 60 MVA progressively in Feb'12 for meeting power requirement for testing and trials of equipment in different units. Main Receiving Station (MRS) has been commissioned.

- On 21.6.12, the villagers shifted the local deity 'Jhorabudi' to an alternate site developed by ISP outside the plant premises. Balance portion of railway track of Coke Dispatch System was laid. The Coke Dispatch System was inaugurated by Hon'ble Minister I/c Dept. of Commerce & Industries, Public Enterprises, Industrial Re-construction, Information Technology, Parliamentary Affairs on 23.9.12.

Railway Receiving Yard (Damodar Yard) - For receipt of raw materials, Damodar Railway Yard of ISP is integrated with Railway network for meeting the full requirement. Commercial Notification of Damodar siding issued by SE Railway on 4.8.14 for opening ISP's siding (Lines - 6 to 10) for commercial traffic and on 19.3.15 for lines 1-5 . 25 kV power charged by SER in all 10 lines. Rakes with electric Loco of Railways have started directly coming inside ISP through Main Line.

Upgraded West Yard commissioned on 26.12.11. This yard will take care of dispatches of Finished steel, Coke, Sinter and Granulated slag from Expansion project. Overhead Electrification at Hirapur Exchange Yard done on 7.9.13. New triple siding line no. 11 & 12 commissioned in Sep'13. Full rakes can be handled directly through Hirapur yard & Upgraded West Yard for dispatch.

Diesel Locomotives have been commissioned in Damodar Yard (3 nos.) and Upgraded West Yard (2 nos.).

#### Dedication of SAIL's Modernised & Expanded IISCO Steel Plant to the Nation

On 10.5.15, Shri Narendra Modi, Hon'ble Prime Minister of India, dedicated SAIL's Modernised and Expanded IISCO Steel Plant to the Nation at Burnpur. The Prime Minister also visited the New Blast Furnace 'Kalyani' (the largest operative Blast Furnace in the country).

#### National Green Tribunal Judgment for ISP

Against the complaint lodged by the inhabitants adjacent to site on pollution from ISP, NGT has passed judgment dated 6.5.16 wherein no direction has been issued with respect to acquisition, rehabilitation and compensation. ISP has been directed to construct a garland drain around the premises of the unit within a span of six months and also develop a green belt in order to prevent the dust particles entering the village. Excavation of the drain has been completed (~3.6 km).

#### Closure of Existing Units –

Light Structural Mill	-	Oct'13
Billet Mill	-	Mar'14
Merchant Mill	-	Mar'14
Heavy Structural Mill	-	Apr'14
Blooming Mill	-	Apr'14
SMS-1	-	Apr'14
Blast Furnace-2	-	Apr'15
COB-8	-	Mar'12 (cold repair)
COB-9B	-	Apr'09
COB-9A	-	Mar'14

**Package-wise Details for Expansion of IISCO Steel Plant**

**Packages under Implementation:**

*Cost figures in Italics indicates updated figures as on Feb'11*

*Cost figures in Italics indicates updated figures as on Oct'19*

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP
<b>Raw Material Handling System</b>								
1.	Ore Handling Plant (to handle 5.68 Mtpa raw material – Iron ore/ Llime stone/ Dolomite/ Quartzite/ Manganese ore) Piling – 5479 nos. RCC – 72,000 m3 Strl. Steel – 10,500 t Equipment – 7015 t	McNally Bharat, Kolkata	534.50 (Nil)  <i>592.75</i> <b>528.13</b>  <u>Gross Cost –</u> 615.32	565.78	6.3.08	May'10 <b>(Jun'12)</b>	Rakes of Ore Fines are being received and Ore is being supplied to the Base Mix plant. PAC issued on 14.5.2013. Commissioning tests commenced from 26.5.2015 and completed on 3.6.2015. Commissioning certificate issued on 26.08.15. PG test completed on 4.6.16. PG Certificate issued on 8.10.16. <b>FAC issued on 2.2.18.</b> <b>Contract closed on 11.4.18.</b> <b>(Party's Claim Rs.49.55 cr. on account of shortfall in CENVAT) Under Arbitration, details provided separately.</b>	
2.	Coal, Coke Handling & Pipe Conveyor (to handle 1.44 Mtpa coal) Piling – 3375 nos. RCC – 41,000 m3 Strl. Steel – 9650 t Equipment – 7500 t  <u>Additional Work</u> Coke Dispatch System Order placed on 31.5.11 for Rs.8.98 crore (net of Cenvat).  Piling – 108 nos. RCC – 545 m3 Strl. Steel – 610 t Equipment – 155 t	L&T, Chennai	504.50 (Nil)  <i>573.08</i> <b>562.57</b>  <u>Gross Cost –</u> 637.03	572.63	7.3.08	May'10 <b>(Jun'12)</b>	Receipt, unloading and return of 1 <sup>st</sup> Coking coal rake of 58 wagons done successfully from 15.6.12-17.6.12. After the receipt of 3rd coal rake, stacking of Prime coking coal bed started on 5.10.12. Coal rakes are being received continuously. Trial run for pipe conveyors was successfully completed on 2.9.2013 for coke and on 4.9.2013 for ore. First load trial of transportation of coke from COB-10 to New Plant through pipe Conveying System successfully done on 15.1.2014. PAC has been issued. Commissioning certificate issued for all 11 streams. PG test for 10 out of 11 streams completed on 8.5.15, and CDI stream (11 <sup>th</sup> stream) on 26.9.16. <b>PG certificate issued on 21.10.16.</b> FAC balance. (FAC payment ~11 crore against BG paid) <u>Coke Dispatch System</u> The coke dispatch system has been commissioned. It was inaugurated by Hon'ble Minister Shri Partha Chatterjee on 23.9.12. First consignment of BF grade Coke (from COB-11) was flagged off on 17.2.13. <b>(Party's Claim Rs.76.78 cr. on account of shortfall in CENVAT) Under Conciliation, details provided separately.</b>	
3.	Base Mix Preparation plant  Piling – 2704 nos. RCC – 22,000 m3 Strl. Steel – 13,700 t Equipment – 7200 t  <u>Change Order</u> Procurement and Installation of 3x50 tpd Rod Mill Crushers in place of originally proposed 2x200 tpd Rod Mill dated 16.2.11, cost (-) Rs.2.79 cr.	L&T, Chennai	457.50 (Nil)  <i>522.36</i> <b>468.74</b>  <u>Gross Cost –</u> 539.31	524.25	7.3.08	May'10 <b>(Jun'12)</b>	Base mix is being supplied to the Sinter Plant. PAC has been issued for all 15 streams. Commissioning certificate issued for all 15 streams on 26.8.15. PG test completed on 4.6.16. PG Certificate issued on 19.7.16. <b>FAC issued on 7.8.17.</b> <b>Contract Closed on 6.3.18.</b> <b>(Party's Claim Rs.45.85 cr. on account of shortfall in CENVAT/ withheld payments) Under Arbitration, details provided separately.</b> <u>Sinter Dispatch System</u> Load trials were done on 31.1.13. 10 wagons of sinter (~600 t) was loaded and dispatched to BSL on 10.2.13.	

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP																								
	<u>Additional Work</u> Sinter Dispatch System Order placed on 27.7.11 for Rs.7.65 crore (net of Cenvat). Piling – 70 nos. RCC – 390 m3 Strl. Steel – 440 t Equipment – 145 t																															
4.	Yard Machines Group – I – 6 machines Group – II – 12 machines Group – III – 6 machines	Elecon Engg. , Anand, Gujarat	164.99 (nil)  176.32 <b>159.26</b> <u>Gross Cost –</u> 183.33	159.20	7.3.08	May'10 <b>(Jun'12)</b>	All 24 machines are in use. PAC has been issued for all machines Commissioning certificate issued for Group – I and Group – III machines on 19.11.15, for. Group – II on 26.12.16 PG test has been completed for all machines. <b>PG certificate issued for Group – I and Group – III machines on 24.10.16 and Group –II on 24.10.17.</b> <b>LD Deducted – Group-I – Rs.1.32 cr.</b> <b>Group-II – Rs.3.75 cr.</b> <b>Group-III – Rs.3.04 cr.</b> <b>FAC balance.</b>																									
<b>New Coke Oven Complex</b>																																
5.	Coke Oven Battery (0.882 Mtpa/ 104 pushings/ day 2x37 ovens, 7 m tall)  Piling – 2967 nos. RCC – 28,331 m3 Strl. Steel – 4213 t Equipment – 6981 t 21 sets Refractory – 28,186 t	Giprokoks/CUI/CIFG / Mcnally Bharat(Kolkata)/ BEC(Bhilai)	537.53 (117.25)  587.59 (136.5) <b>549.99</b>  <u>Gross Cost –</u> 614.15	591.35	13.10.07	Mar'10 <b>(Feb'13)</b>	Battery heating was started on 30.5.12. The battery was charged on 13.2.13 and 1 <sup>st</sup> coke pushed on 14.2.13. PAC issued on 27.3.13. Commissioning certificate issued on 29.4.2014 w.e.f. 28.10.13. Regular charging/ pushing being done in the Coke Oven Battery. PG tests have been completed. <b>97 nos. coke pushing (highest) has been done on 19.5.15.</b> PG Certificate issued on 25.4.16. Heating medium of Battery has been changed from Coke Oven Gas to Mixed Gas under firing on 30.3.16 for N2 block and on 28.6.16 for N1 block. <i>5% LD has been deducted on account of delay.</i> <b>FAC issued on 9.4.18 (w.e.f 3.4.18).</b> <b>Contract closed on 4.6.18.</b> <b>LD Deducted – Rs.33.94 cr.</b> Oven Pushing in - <b>2012-13 - 1632 nos.</b> <b>2013-14 - 20,929 nos.</b> <b>2014-15 - 23,569 nos.</b> <b>2015-16 – 30,292 nos.</b> <b>2016-17 – 31,241 nos.</b> <b>2017-18 – 33,072 nos.</b> <b>2018-19 – 34,639 nos.</b> <b>2019-20 – 35031 nos.</b> <b>2020-21 (upto Sep'20) - 15,648 nos.</b>																									
							<table border="1"> <tr> <td>Apr'20</td> <td>2335 nos.</td> <td>Oct'20</td> <td></td> </tr> <tr> <td>May'20</td> <td>2329 nos.</td> <td>Nov'20</td> <td></td> </tr> <tr> <td>June'20</td> <td>2595 nos.</td> <td>Dec'20</td> <td></td> </tr> <tr> <td>Jul'20</td> <td>2816 nos.</td> <td>Jan'21</td> <td></td> </tr> <tr> <td>Aug'20</td> <td>3067 nos.</td> <td>Feb'21</td> <td></td> </tr> <tr> <td>Sep'20</td> <td>2508 nos.</td> <td>Mar'21</td> <td></td> </tr> </table>	Apr'20	2335 nos.	Oct'20		May'20	2329 nos.	Nov'20		June'20	2595 nos.	Dec'20		Jul'20	2816 nos.	Jan'21		Aug'20	3067 nos.	Feb'21		Sep'20	2508 nos.	Mar'21		
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							<b>withheld payments)</b> <b>Under conciliation, details provided separately.</b>	
6.	Coke Dry Cooling Plant (0.882 Mtpa) - 4 modules, 50 tph each (2W+1 hot standby+1 under repair/ maintenance)  Strl. Steel – 3712 t Equipment –3789 t 15 sets Refractory –3370 t	Giprokoks/ CUI/ BEC(Bhilai)	307.38 (44.69)  327.96 (42.78) <b>296.58</b> <u>Gross Cost –</u> 325.96	309.63	16.7.08	Jul'10 (Feb'13)	All 4 modules have been completed. Coke from battery is being cooled and dispatched through K1 & K2 conveyors. PAC for CDCP issued on 24.8.13. Commissioning certificate issued on 29.4.2014. PG tests completed and certificate issued on 24.6.15. <i>5% LD has been deducted on account of delay.</i> <b>FAC issued on 19.4.18.</b> <b>Contract closed on 5.6.18.</b> <b>LD Deducted – Rs.13.85 cr.</b>  <b>(Party's Claim Rs.13.45 cr. on account of shortfall in CENVAT/ withheld payments)</b> <b>Under Conciliation, details provided separately.</b>	
7.	Coke Dry Cooling Plant (Civil & Structural Work) Piling – 1118 nos. RCC – 10,347 m3 Strl. Steel – 345 t	BEC Ltd., Bhilai	23.20  23.20 <b>23.31</b> <u>Gross Cost –</u> 25.50	26.82	7.2.09	Aug'10 (Feb'13)	PAC issued on 31.3.14. <i>7.5% LD has been deducted on account of delay.</i> <b>FAC issued on 23.9.17 (w.e.f. 9.2.16).</b>	
8.	By-Product Plant  Piling – 666 nos. RCC – 16,315 m3 Strl. Steel – 1747 t Equipment – 3702 t	Mcnally Bharat Engg., Kolkata (under licensee of DMT GmbH, Germany)	231.31 (21.00)  251.74 (24.78) <b>238.0</b> <u>Gross Cost –</u> 269.52	235.95	12.10.07	Mar'10 (Feb'13)	Steam is being supplied from Power & Blowing station and CDCP. The Exhauster, Chiller Unit and the Electrostatic Tar precipitator of the By-product plant are connected. Çoal tar produced is being dispatched. Elementary Sulphur plant has started in Mono-Claus mode on 12.11.2013. Presently both Claus plants are running. Ammonium Sulphate production has started. PAC issued on 12.2.13 Commissioning certificate issued on 15.9.14. Dispatch of Naphthalene has started from 30.8.17. Order placed on M/s Plantech (~Rs.4.8 cr.) for taking up hot tapping method for PG tests. Connection of tail gas line from Sulphur plant with Raw CO gas line has been done. PG tests conducted from 24 -3.8.18. <b>PG certificate issued on 15.10.18 (w.e.f. 30.7.18)</b> <b>FAC certificate issued on 20.2.2020 w.e.f 31.7.19.</b>	
9.	B.O.D. Plant  Piling – nil RCC – 3350 m3 Strl. Steel – 40 t Equipment – 160 t	UPL Environmental Engg., Vadodara	8.26 (nil)  8.92 <b>7.86</b> <u>Gross Cost –</u> 8.57	8.4443	12.10.07	Feb'10 (Jul'13)	Plant is in trial operation from 16.04.13. Bacteria culture is in process. Regular monitoring is being done by EMD. Receiving effluent from BPP started from Jul'13. PAC issued on 31.5.14. Commissioning Test successfully conducted from 05.08.15 to 11.08.15. Commissioning Certificate issued on 17.9.15. Balance – PGT & FAC.	
<b>Sinter Plant Complex</b>								
10.	Sinter Plant (2x204 m2, 3.88 Mtpa/ 11,750 tpd gross sinter production)  Piling – 1539 nos.	L&T / Outokumpu* Kolkata  ** Renamed as Outotec GmbH Germany	704.19 (123.70)  790.91 (142.65) <b>775.65</b>		13.10.07	Mar'10 (Hot trial production – Sinter M/c-1 - Dec'12 Sinter M/c -2-	Hot trial production of Sinter Plant (Machine-1) done on 24.12.12. In Sinter Machine No.2, Pilot burner of ignition furnace lighted up on 23.1.13 and hot trial production done on 31.1.13. Trial production of Sinter Plant (Machine-1) started on 11.3.13. PAC issued on 15.2.13. Commissioning tests done from 9.6.2015 to 15.6.15, commissioning	

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP																								
	RCC – 40,000 m3 Strl. Steel – 12,975 t Equipment – 11,750 t Refractory – 1100 t  <u>Change Order:</u> 1) Modification of Burner to use Coke Oven Gas. Supply – dated 19.8.11- Rs.0.22 cr.		Gross Cost – 864.07	856.50		Jan'13	certificate issued on 19.7.15. PG test completed on 10.6.16. PG Certificate issued on 16.9.16. <b>FAC issued on 18.7.17.</b> <b>Contract closed on 28.12.17</b> Sinter production – <b>2012-13 - 1560 t</b> <b>2013-14 - 1,12,403 t</b> <b>2014-15 - 6,58,429 t</b> <b>2015-16 – 22,40,030 t</b> <b>2016-17 –29,60,496 t</b> <b>2017-18 – 33,27,595 t</b> <b>2018-19 – 33,23,818 t</b> <b>2019-20 –37,96,017 t</b>  <b>2020-21 (upto Sep'20)- 15,44,180 t</b> <table border="1"> <tr><td>Apr'20</td><td>2,35,247 t</td><td>Oct'20</td><td></td></tr> <tr><td>May'20</td><td>2,39,817 t</td><td>Nov'20</td><td></td></tr> <tr><td>June'20</td><td>2,68,506 t</td><td>Dec'20</td><td></td></tr> <tr><td>Jul'20</td><td>2,98,320 t</td><td>Jan'21</td><td></td></tr> <tr><td>Aug'20</td><td>2,85,329 t</td><td>Feb'21</td><td></td></tr> <tr><td>Sep'20</td><td>2,16,961 t</td><td>Mar'21</td><td></td></tr> </table> <b>Best ever production in a day - 13,353 t on 11.5.19.</b>  <b>(Party's Claim Rs.17.02 cr. on account of shortfall in CENVAT) Under Arbitration, details provided separately.</b>	Apr'20	2,35,247 t	Oct'20		May'20	2,39,817 t	Nov'20		June'20	2,68,506 t	Dec'20		Jul'20	2,98,320 t	Jan'21		Aug'20	2,85,329 t	Feb'21		Sep'20	2,16,961 t	Mar'21		
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<b>Blast Furnace Complex</b>																																
11.	New Blast Furnace (BF5) (2.7 Mtpa / 7700 tpd Gross Hot Metal)  Piling – 4506 nos. RCC – 63,756 m3 Strl. Steel –12,233 t Equipment – 31,856 t Refractory – 33,364 t  Change Orders issued: 1) Design, supply, erection and commissioning of one Goggle Valve after demister on 6.8.12, Rs.1.30 crore 2) Upkeep of Facilities and Repetition of Pre-Blow in activities in Blast Furnace on 29.11.14, Rs.0.08 crore & Euro 615000 3) Extra quantity for Painting of Additional Coat on Structures & Equipment at Blast Furnace on 13.4.15 Rs.0.50 crore	POSCO E & C, South Korea/ Nagarjuna Const. (NCCL), Hyderabad	1493.50 (473.24)  1640.53 (547.48) <b>1638.05</b>  Gross Cost – 1820.45	1770.03	16.10.07	Apr'10 <b>(Blow in - Nov'14)</b>	PAC issued on 19.7.13. Heating of Hot Blast Stoves started on 1.8.14 & completed on 7.9.14. Timbering Process started on 9.11.14 and completed on 16.11.14. Burden Filling started on 18.11.2014 and completed on 27.11.14. Blow-in of Blast Furnace done on 30.11.14. Commissioning test carried from 6.12.2014 to 13.12.2014 and commissioning certificate issued on 1.5.15. A new Pressure reducing & Distribution System (for reducing steam from 13 ata to 9 ata) installed on 15.12.15 for supplying steam at 9 ata to BF. PG test of BF-5 completed 21-28.12.16. PG certificate issued on 16.1.17. <b>FAC issued on 10.5.18.</b> <b>Contract closed on 13.10.18.</b> Hot metal produced in – <b>2014-15 - 3,75,389 t</b> <b>2015-16 – 14,31,733 t</b> <b>2016-17 – 18,10,438 t</b> <b>2017-18 – 20,54,991 t</b> <b>2018-19 – 22,00,367 t</b> <b>2019-20 – 25,05,198 t</b>  <b>2020-21 (upto Sep'20)- 9,56,684 t</b> <table border="1"> <tr><td>Apr'20</td><td>1,43,766 t</td><td>Oct'20</td><td></td></tr> <tr><td>May'20</td><td>1,52,132 t</td><td>Nov'20</td><td></td></tr> </table>	Apr'20	1,43,766 t	Oct'20		May'20	1,52,132 t	Nov'20																		
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SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status				ISP	
							June'20	1,67,382 t	Dec'20			
							Jul'20	1,90,559 t	Jan'21			
							Aug'20	1,95,518 t	Feb'21			
							Sep'20	1,07,327 t	Mar'21			
							<b>Best Production in a day so far – 8542 t on 9.12.19.</b>  <b>(Party's Claim to be submitted for shortfall in CENVAT/ withheld payments)</b> <b>Under Conciliation, details provided separately.</b>					
12.	Top Pressure Recovery Turbine (1 X 14MW TRT)	SSIT, China/ Tangshan Iron & Steel Design, China/ MICCO, Kolkata	41.73 (24.99)  44.55 (28.17) <b>22.16</b>	12.91	13.10.07	Oct'09 (-)	The Package was re-tendered against RPN. <b>The contract was terminated on 30.11.12.</b> Contract signed with Consortium of M/s NICCO Corporation Ltd. and M/s Mitsui Engg. & Shipbuilding Co. Ltd., Japan on 13.2.13.  <b>Party's claim Rs.1.1 cr. ISP's claim Rs.17.29 cr. (RPN case)</b> <b>Under Arbitration, details provided separately.</b>					
	Balance Work of Top Pressure Recovery Turbine  Change order issued – 1) On 18.1.2016 for Additional Foreign Supervision of 44 mandays for JPY 60,46,040 (Rs.0.35 Cr.)	Nicco Corp. Ltd./ Mitsui Engg. & Shipbuilding Co. Ltd.	57.74 (32.84)  <u>Gross Cost –</u> 65.17	61.41	30.12.12	Part A – Nov'13 (By-pass system) (Nov'14) Part B –Jul'14 (Total TRT system) (Dec'15)	<i>Hot trial of TRT successfully done on 26.12.15 with synchronisation at 2MW.</i> <i>PAC issued on 28.12.15</i> <i>In the presence MES experts, Continuous running of the TRT started on 8.2.16 and synchronized at load of 7.1 MW, Inlet BF Gas flow was 4,20,000 Nm3/hr and Inlet pressure 1.82 kg/cm2. Maximum generation 10.5 MW.</i> <i>CC issued on 31.3.16.</i> <i>PG Test completed on 27.12.16 in the presence of MES (Japan) experts. Generation of 14.25 MW power with BFG flow of 5,21,000 Nm3 /hour at 2.16 kg/cm2 inlet pressure was achieved.</i> <i>PG certificate issued on 28.1.2017.</i> <i>TRT is running continuously with ~10MW generation depending on the BF Gas volume.</i> <b>FAC issued on 29.3.18.</b> <b>Contract Closed on 12.12.18</b>					
							<b>Under Conciliation, details provided separately.</b> <b>(Party's Claim Rs.0.61 cr. on account of shortfall in CENVAT)</b>					
13.	Pig Casting Machine (2x1400 tpd continuous twin strand)  Piling – 27 nos. RCC – 8220 m3 Strl. Steel – 936 t Equipment –1420 t  Change Order issued: 1) On 24.2.11 for Extra item to Complete Rail Track foundation for PCM pouring end building & discharge end building including flooring: Rs.0.97 crore	METCO, Kolkata	48.26 (nil)  53.49 <b>47.68</b>  <u>Gross Cost –</u> 55.16	52.02	9.10.07	Oct'09 (Dec'14)	1 <sup>st</sup> casting of PCM with Hot metal from BF-5 successfully done on 5.12.14. Commissioning certificate issued on 25.02.2015. PG test carried out from 17.2.16-19.2.16 (72 hours). PG certificate issued on 30.3.16. <b>FAC issued on 27.1.18.</b> <b>Contract closed on 12.6.18.</b> <i>Pigs produced in –</i> <b>2014-15 - 1,03,428 t</b> <b>2015-16 – 2,96,763 t</b> <b>2016-17 – 2,37,124 t</b> <b>2017-18 – 1,03,834 t</b> <b>2018-19 – 80,482 t</b> <b>2019-20 – 1,40,072 t</b>  <b>2020-21 (upto Sep'20)- 29,575 t</b>					

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status				ISP
							Apr'20	3103 t	Oct'20		
							May'20	3244 t	Nov'20		
							June'20	2855 t	Dec'20		
							Jul'20	8659 t	Jan'21		
							Aug'20	4669 t	Feb'21		
							Sep'20	7045 t	Mar'21		
14.	Coal Pulverisation & Injection system Coal Injection rate – 150kg/ tHM (Avg.)  Piling – 169 nos. RCC – 5100 m3 Strl. Steel –2044 t Equipment –1081 t  Change order issued – 1) For Extra items for Rs.0.11 crore, on 27.5.15.	CISRI China/ SSIT China/ Shapoorji Pallonji, Mumbai  Change Order issued on 17.7.13 with revision in the Responsibility Matrix and Price Schedule.  Original CISRI SSIT SPCL	78.79 (38.07)  86.98 (42.9) <b>86.68</b>  <u>Gross Cost –</u> 101.42	88.6823	13.10.07	Oct'09 (Mar'15)	PAC issued on 11.3.15. Coal successfully ground on 14.3.15 in Stream -1 and on 22.3.15 in Stream-2. Hot trials of Coal Pulverisation and Injection into BF-5 done on 28.3.15. Commissioning parameters reduced considering a min. HM production of 4,500 tpd from BF-5. Commissioning tests carried out from 18.3.16 to 24.3.16 in the presence of Chinese experts. Commissioning certificate issued on 25.4.16 wef 24.3.16. PG test completed on 29.12.16 along with Blast Furnace. PG certificate has been issued on 2.5.17 wef 29.12.16. <b>FAC issued on 8.7.19 w.e.f. 27.6.19</b> LD deducted – Rs.1.97 cr.  <b>Under Arbitration, details provided separately. (Party's Claim Rs.23.75 cr. plus on account of LD, PVC payments, BG extension charges, interest)</b>				
15.	Hot Metal Handling System (10 x 350 t Torpedo ladles)  Piling – 52 nos. RCC – 2325 m3 Strl. Steel – 765 t Equipment – 2150 t Refractory – 1730 t  Change Order – 1) For Two nos. Torpedo Ladle along with Ladle car (without refractory) placed on 9.10.14 (Rs.1.30 crore)	Dalian Huaruri Heavy Industry, China/ Simplex, Bhilai	71.91 (26.69)  80.44 (31.21) <b>97.16</b>  <u>Gross Cost –</u> 106.71	88.50	14.10.07	Oct'09 (Nov'14)	Trial run of Torpedo Ladle Car from Cast House-II to Ladle Repair Shop successfully completed on 25.8.14 through Interplant Rail Network. Track between BF and BOF (EF bay) completed and Trial run of Loco along with one Torpedo ladle done successfully on 14.9.13. Trial run of Torpedo Ladle Car between the Ladle repair Shop and Sand Pit done successfully on 21.10.2014. 1 <sup>st</sup> Torpedo Ladle Car carrying Hot Metal from BF-5 taken to BOF-shop on 13.12.14 for sequential casting. Torpedo Ladles (8 nos.) are in continuous use with Hot metal being transported to sand pit/ PCM & BOF. Balance 2 nos. are kept reserve for future usage. PAC issued on 02.05.2015 CC issued on 30.05.2015. PG test conducted on 19.10.16. PG certificate issued on 20.12.16. <b>FAC issued on 27.1.18. Contract closed on 01.06.2020.</b> <b>LD deducted Rs.4.41 cr.</b> <b>Extra claims (Rs.0.38 cr.) under settlement.</b>				
16.	BF & CO Gas Flare Stack  <b>Steel Melting Shop</b>	Ador Welding	4.34  5.02 <u>Gross Cost –</u> 5.38	4.16	29.4.09	Apr'10 (Nov'14)	BF & CO Gas Flare stacks are in operation. PAC issued on 16.6.14. Commissioning Certificate issued on 13.2.16 (w.e.f. 30.11.14).				
17.	BOF Converters (3 x 150t)	SMS Demag/ SMS(Kolkata) India/ Bridge & Roof Co.	1120.83 (357.87)		19.3.08	Oct'10/ Dec'10 (1 <sup>st</sup> converter	First heat taken from BOF Converter - 3 (1 <sup>st</sup> Converter) on 8.9.14 and from BOF Converter - 2 (2 <sup>nd</sup> Converter) on 20.11.14. Heats are being taken regularly.				



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	2.559 Mtpa/ 52 heats/ day Equipment – 14,456 t 938 lots  <u>Change Orders</u> i) Additional Foreign Supervision of 55 man months for BOF (9.1.15) - 2,641,916 Euro ii) Additional Indian Supervision of 60 man months for BOF (16.2.15) – Rs.2.94 cr. iii) Supply of 3 modification sets for lance quick coupling system (25.1.16) – Euro 135,000 (Completion time - 1 <sup>st</sup> set – within 6 weeks, ex works Germany, balance 22 weeks) iv) Additional Indian Supervision of 25 man months for BOF (21.9.16)– Rs.1.25 cr.	Gurgaon	1204.61 (380.97) <b>1358.06</b>  <u>Gross Cost –</u> 1451.55	1263.42		Sep'14) (2 <sup>nd</sup> Converter Nov'14) (3 <sup>rd</sup> Converter – Aug'16)	Commissioning Certificate for Converter-3 issued on 9.9.15. Commissioning Certificate for Converter-2 issued on 27.8.16 Performance Guarantee certificate issued on 06.07.19 wef 19.5.19 <u>BOF Gas Holder –Hot trial of Gas recovery from BOF Converter to Gas Holder done successfully for the first time on 11.9.15. Regular Gas recovery &amp; export started on 21.11.15.</u> BOF- Container Laboratory made operational on 13.6.15. Hot trial of ESP-2 along with Dust transport System successfully conducted on 8.7.16 and is in operation. <u>BOF-1 Converter</u> Hot trial of Converter-1 done on 30.8.16. Commissioning test carried out on 20-21.1.17. Commissioning certificate issued on 28.2.17. PG Certificate issued on 6.7.19 (w.e.f. 19.5.19) Balance FAC Heats taken in - <b>2014-15 - 1132 nos.</b> <b>2015-16 – 6634 nos.</b> <b>2016-17 – 10,320 nos.</b> <b>2017-18 –12,591 nos.</b> <b>2018-19 – 12,879 nos.</b> <b>2019-20 – 14,338 nos.</b>  <b>2020-21- (upto Sep'20) - 5510 nos.</b> <table border="1"> <tr><td>Apr'20</td><td>868 nos.</td><td>Oct'20</td><td></td></tr> <tr><td>May'20</td><td>898 nos.</td><td>Nov'20</td><td></td></tr> <tr><td>June'20</td><td>974 nos.</td><td>Dec'20</td><td></td></tr> <tr><td>Jul'20</td><td>1077 nos.</td><td>Jan'21</td><td></td></tr> <tr><td>Aug'20</td><td>1145 nos.</td><td>Feb'21</td><td></td></tr> <tr><td>Sep'20</td><td>548 nos.</td><td>Mar'21</td><td></td></tr> </table>	Apr'20	868 nos.	Oct'20		May'20	898 nos.	Nov'20		June'20	974 nos.	Dec'20		Jul'20	1077 nos.	Jan'21		Aug'20	1145 nos.	Feb'21		Sep'20	548 nos.	Mar'21		
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18.	Hot Metal De-sulphurisation Station (2 x 150t )  Equipment – 1222 t 40 sets	Kuttner GmbH/ Somani Kuttner, New Delhi	37.27 (11.65)  38.22 (11.02) <b>39.58</b>  <u>Gross Cost –</u> 44.18	42.33	4.6.08	Jun'10 (Jun'15)	PAC issued for both Stands on 28.2.15. Hot trial run done in Stand -1 on 18.6.15 and in Stand-2 on 24.6.15 with mono injection of Calcium Carbide into Hot Metal in manual mode. Commissioning test for HMDS unit -1 and unit-2 successfully done on 11.10.2015 and 12.10.2015 respectively. Commissioning certificate issued on 23.12.2015. <b>PG Certificate has been issued on 8.4.2019 (w.e.f 30.3.19).</b> <b>FAC issued on 15.1.2020 (w.e.f 10.1.2020).</b> <b>Under Conciliation, details provided separately.</b> <b>Claim of Party - €160342.32 and Rs.4.28 cr.</b>																									
19.	Secondary Refining System (2 x 150t LF – 2.55 Mtpa/ 2x26 heats/day, 1 x 150t RHF – 1.00 Mtpa/ 24 heats/ day)	SMS India/ SMS Mevac UK/ Shriram EPC Ltd., Chennai	215.19 (32.78)  225.78 (29.75) <b>224.16</b>		23.5.08	Sep'10 (LHF1-Dec'13 LHF2-Oct'14 RH Degasser- Apr'16)	Liquid Steel was brought from existing Twin Hearth Furnace through 2 nos. converted ladles (75t each) and then taken to new Ladle Furnace after re-ladling on 19.12.13. Thereafter, first heat was taken successfully in LHF for rinsing and arcing and liquid steel was placed on turret of Billet Caster No.1. On 10.10.2014, heat was taken successfully in Ladle Heating Furnace-2 for rinsing and arcing.																									

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	Equipment – 1792 t 236 sets  Refractory – 314 t		<u>Gross Cost –</u> 237.12	217.88			PAC issued for LHF-1 on 29.3.14 & for LHF-2 on 10.10.14 <u>RH Degasser</u> PAC for RH Degasser issued on 4.3.16. 1 <sup>st</sup> hot trial was done on 5.3.16, however, due to leakages observed in loaded condition, the desired vacuum level (<1 milli bar) was not achieved. Leakages have been rectified. After completion of major punch points, again heat was taken on 23.4.16 when desired vacuum could be achieved. For Level-2 Automation, Hardware installation and networking is completed. Commissioning tests completed on 30.5.18. <b>CC issued on 21.6.18 (w.e.f 30.5.18).</b> <b>Present Status :</b> ➤ <b>PG of 02 Nos. LHF completed</b> ➤ <b>PG of RH degasser - Balance.</b> ➤ <b>MECON's recommended rectification jobs completed.</b> ➤ <b>No Load trial taken on 28.12.2019.</b> <b>Note :</b> ➤ <b>Consecutive heats required for successful PGT.</b> <b>Under Arbitration (Shortfall in CENVAT)</b> <b>SMS(l) claim (Rs.4.19 Cr. + Interest + arbitration cost)</b>	
20.	EOT cranes for BOF & CCP (> 120t capacity) Total 12 Nos. (280T= 8 Nos.; 120T= 4 Nos.) <u>For BOF:</u> 2x280t - HMDS bay (D-E), 2x280t - Charging bay (E-F), 1x280t - Ladle Prep. Bay (H'-J), 1x120t- Ladle Prep. Bay (H'-J) , 3x120t- Slag Bay (A-B) <u>For CCP:</u> 3x280t- Secondary Ref. Bay (K-L)	Anupam Industries, Anand/ SIB Cranex, Russia	186.30 (52.37)  194.1 (51.81) <b>191.19</b>  <u>Gross Cost –</u> 216.5	192.17	4.6.08	Jun'10 (Apr'16)	PAC issued for all 12 cranes. CC issued for all 12 cranes.  PG test completed in all cranes. PG certificate issued for 9 cranes. Balance is cranes in KL bay.	
21.	Lime & Dolomite Plant (3 x 330 tpd Lime kiln, 1 x 200 tpd Dolomite Kiln)  Equipment –2900 t 51 sets Refractory – 28,186 t	Cimprogetti, Italy/ FL Smidth Minerals Pvt. Ltd., Chennai	105.82 (16.48)  113.89 (17.99) <b>112.89</b>  <u>Gross Cost –</u> 124.50	108.47	18.4.08	Apr'10 (Dolo kiln – Oct'14 Lime kiln-2 Feb'15 Kiln-3 – Feb'16 & Kiln-4 – Jun'16)	It was decided to start Dolo kiln (200 tpd) with CO gas for Production of lime for requirements of 1 <sup>st</sup> heat. On 16.10.2014, Kiln-1 was lighted up with Coke Oven Gas to start production of Calcined Lime. Kiln-1 started trial production of Calcined Lime on 20.10.2014. Production of Dolo started from 27.3.15 Kiln-2 lighted-up on 4.2.15. Order placed on 27.4.15 on M/s TRL for Dismantling, Disposal and Erection of Refractory at Kilns 3 & 4. Order value is Rs.1.10 crore. Kiln-3 lighted up on 28.1.16 and lime production started from 4.2.16. Kiln-4 lighted up on 18.6.16 and lime production started from 24.6.16. Commissioning certificate issued - Kiln-1 & 2 - 17.11.15 - Kiln – 3 - 31.3.16 - Kiln-4 - 27.7.16 Consolidated CC issued on 24.12.16. PG test of Kiln-3 & 4 conducted 20-24.11.17.	

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22	<p>Continuous Casting Plant (2x6 strand Billet Caster – 1.67Mtpa/ 2x20 heats/ day Max. 2x24 heats/ day 1x4 strand Bloom cum Beam Blank Caster – 0.83 Mtpa/ 12 heats/ day) Max. 24 heats per day.</p> <p>Equipment – 9640 t</p> <p><u>Change Orders</u></p> <p>i) Change Order for Missing/ Damaged items for CCP (10.12.13) – Rs.0.80 cr. ii) Change Order for Additional Foreign Supervision of 750 Mandays (2.9.14) – Rs.4.88 cr. iii) Change Order for Additional Foreign Supervision of 373 Mandays (19.1.15) – Rs.2.42 cr. iv) Missing/ damaged items for CCP on M/s SAS Engg. Works (25.2.15) – Rs.0.26 cr. v) Missing/ damaged items for CCP on M/s Sangeeta Engg., Kabelschlepp India Filteration Engg., Universal Fire &amp; Mico Corpn. (25.2.15) – Rs.0.1 cr. vi) Y link Panel Installation for Level-1 Automation Interface between Casters &amp; Mills for hot charging of Billets on M/s Primetals on 26.10.15 for Rs.0.076 crore vii) Emergency work in Cable Tunnel for CCP on M/s Primetals on 26.10.15 for Rs.0.11 crore. viii) Supply of Equipment Parts/ Items for repairing damaged 'Marking Machine' M/s Primetals Technologies India Pvt. Ltd, on 25.2.16 for Rs.0.489 crore. ix) Change Order for Additional Foreign Supervision (300) Mandays and Indian Supervision (280 mandays) (27.1.17) – Rs.2.258 cr.</p>	Siemens VAI, Austria/ Siemens VAI, India Kolkata	<p>447.93 (217.87)</p> <p>480.02 (231.06)</p> <p><b>485.66</b></p> <p><u>Gross Cost –</u> 546.36</p>	512.19	11.10.07	<p>Jul'10 (1<sup>st</sup> heat from Caster-1 – Dec'13 1<sup>st</sup> heat from Caster- 2 – Oct'14) 3<sup>rd</sup> Caster – Apr'15)</p>	<p><b><u>BILLET CASTER – 1 &amp; 2</u></b> First heat taken successfully in Billet Caster-1 on 19.12.13 (with Liquid Steel brought from existing Twin Hearth Furnace). PAC for CCM-1 issued on 3.3.14. UK Enterprise, Asansol engaged for completion of balance mechanical jobs of CCM-1 &amp; CCM-2 after contract with M/s UBEL Engg. Ltd. was terminated. First heat taken successfully in Billet Caster-2 on 17.10.14 (with liquid steel from BOF-3). PAC for CCM-2 issued on 16.12.14. Commissioning certificate issued for Caster- 1 &amp; 2 on 17.12.15. EMS - 14 nos. of EMS sent to Ergoline work shop, Italy for refurbishment. They have been received and commissioned in Caster-1 (7 nos.) and Caster-2 (7 nos.). PG tests completed in all 3 casters. <b>PG certificate issued on 8.1.19 w.e.f.17.12.18</b> <b>FAC issued on 20.3.2020 (w.e.f. 19.3.2020)</b> Billets cast from CCM-1 &amp; 2 – <b>2014-15 - 1,41,199 t</b> <b>2015-16 – 8,42,371 t</b> <b>2016-17 –11,63,055 t</b> <b>2017-18 – 14,48,474 t</b> <b>2018-19 – 14,72,917 t</b> <b>2019-20 – 16,69,680 t</b></p> <p><b>2020-21 (upto Sep'20)- 6,17,551 t</b></p> <table border="1"> <tr> <td>Apr'20</td> <td>1,07,688 t</td> <td>Oct'20</td> <td></td> </tr> <tr> <td>May'20</td> <td>97,955 t</td> <td>Nov'20</td> <td></td> </tr> <tr> <td>June'20</td> <td>1,02,905 t</td> <td>Dec'20</td> <td></td> </tr> <tr> <td>Jul'20</td> <td>1,04,779 t</td> <td>Jan'21</td> <td></td> </tr> <tr> <td>Aug'20</td> <td>1,31,764 t</td> <td>Feb'21</td> <td></td> </tr> <tr> <td>Sep'20</td> <td>72,390 t</td> <td>Mar'21</td> <td></td> </tr> </table> <p><b>Max. heats per day in CCM 1&amp; 2 so far - 47 nos. on 28.3.19.</b></p> <p><b><u>CASTER -3</u></b> First Heat was taken successfully on 22.4.15 in Bloom cum Beam Blank Caster (CCM-3) by casting 280mm x 200mm bloom through one strand (approx. 30.6m cast) Casting of Beam blank, BB2, of size 430x350x90 has been done on 3.6.15. PAC for CCM-3 issued on 24.8.15. Casting of Beam blank, BB3, of size 686x350x90 done on 5.2.17. Closed casting system to be stabilised in Caster- 3 (only for casting blooms) Casting of Beam Blank - BB1 (292x305x85) is balance. Commissioning test of CCM-3 has been completed on 23.2.17. Commissioning certificate issued on 30.3.2017 w.e.f. 23.2.17. Marking Machine has been commissioned.</p> <p><b>Blooms/ Beam Blanks cast from CCM-3</b></p>	Apr'20	1,07,688 t	Oct'20		May'20	97,955 t	Nov'20		June'20	1,02,905 t	Dec'20		Jul'20	1,04,779 t	Jan'21		Aug'20	1,31,764 t	Feb'21		Sep'20	72,390 t	Mar'21		
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							<p>2015-16 – 26,647 t  2016-17 – 2,31,264 t  2017-18 – 3,51,486 t  2018-19 – 4,14,496 t  2019-20 – 4,07,006 t</p> <p>2020-21 (upto Sep'20)- 2,09,551 t</p> <table border="1"> <tr> <td>Apr'20</td> <td>21,510 t</td> <td>Oct'20</td> <td></td> </tr> <tr> <td>May'20</td> <td>36,077 t</td> <td>Nov'20</td> <td></td> </tr> <tr> <td>June'20</td> <td>44,393 t</td> <td>Dec'20</td> <td></td> </tr> <tr> <td>Jul'20</td> <td>56,040 t</td> <td>Jan'21</td> <td></td> </tr> <tr> <td>Aug'20</td> <td>40,295 t</td> <td>Feb'21</td> <td></td> </tr> <tr> <td>Sep'20</td> <td>11,236 t</td> <td>Mar'21</td> <td></td> </tr> </table> <p><b>Max. heats per day taken so far - 17 nos. on 23.2.17.</b>  <b>Max. heats with all 3 casters together – 53 heats on 29.10.18</b>  <b>PG Certificate issued on 8.1.19 with date of completion 17.12.18.</b></p>	Apr'20	21,510 t	Oct'20		May'20	36,077 t	Nov'20		June'20	44,393 t	Dec'20		Jul'20	56,040 t	Jan'21		Aug'20	40,295 t	Feb'21		Sep'20	11,236 t	Mar'21		
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23.	Misc. Cranes below 120t for BOF & CCP (total 50 nos.) EOT cranes - 11 nos. Repair trolleys – 30 nos. Jib cranes – 3 nos. Cantilever Cranes – 2 nos. Semi Gantry cranes – 3 nos. Semi Portal Crane – 1 no.	HEC Ltd. Ranchi	73.11 (nil)  78.22 <b>76.33</b>  <u>Gross Cost –</u> 85.72	71.6153	26.2.09	Oct'10 (May'20)	<p>ISP placed Work Order on an alternate agency, M/s MC Enterprise for erection of Scrap Handling Cranes (2 nos.) and Semi-portal Crane on 14.5.14 as the erection of these cranes was not being started by M/s HEC.  Order placed on Alternate agency for erection of Repair trolleys, Jib Cranes etc.  PAC issued for 19/ 20 cranes. CC issued for 19/20 cranes and 30 Repair Trolleys.  CC issued for DSL system to HEC on 8.7.19 wef 20.2.19.  50/10 t cap. Lance handling Crane (2 nos.)  20+20t scrap bay crane (2 nos.)  60+60t cap. Semi-portal crane  10t cap. Lance Workshop crane  100 t cap. Casting bay crane (2 nos.)  20/10 t cap. Ferro handling crane  20/ 10 t cap. Ladle Furnace crane  30/5 t cap. Discharge Bay Crane</p> <p>Semi Gantry cranes – 3 nos. of 7.5t  Cantilever Cranes (in relining bay– 2 nos. of 3t.  Jib cranes – (3 nos. 1t capacity)  Repair trolleys – 30 nos. (21 nos. of 5t incl. 3 nos. spare &amp; 9 nos. of 15t) - supply and Erection completed. PAT completed for 18 nos. on 15.7.2020.  Reasons for Delay: Delay in structural Front Handover and delay due to laying of additional cable because of voltage drop, defective drives etc.</p>																									
24.	Rotating Trolley Cranes for BOF, CCP & Billet Storage (Total 6 cranes for CCP) 2 x 18 t in Discharge Bay (MN) 1x25t & 1x18t in Storage Bay (NP) 2 x 25t in Storage Bay (PQ)  <u>ISSUES</u> ➤ Slew motion is jammed in the	WMI Cranes Ltd. Mumbai	35.72 (nil) 38.28 <b>35.65</b>  <u>Gross Cost –</u> 41.93	37.13	3.3.09	Nov'10 (Apr'16)	<p>PAC issued for all cranes  CC issued for "25T*2Tmtrs.span Rotating Trolley Tong Crane at NP bay (44B) " to WMI KONECRANES INDIA LTD, Pune, on 09.07.19 with date of completion 06.07.18.</p> <p>25t capacity – PQ bay (magnetic ) – 2 cranes - in operation.  NP bay (tong) – crane is not in operation due to defective MH drive. Slew motion is jammed.  18t capacity – NP bay (magnetic) – magnet crane in operation. Slew</p>																									

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	cranes.						<p>motion problem has been rectified and in operation. MN bay (magnetic) – 2 cranes - Both magnet cranes in operation. But slew motion is jammed.</p> <p>In one crane of 25t capacity (PQ bay), bearings were replaced and is working fine. Bearings are being procured and replaced in the balance cranes.</p>	
25.	<p>BF Slag handling system, Bulk Material Handling System of BOF and Ferro Alloy Stores (Civil, Structural, Mechanical, Electricals for BF Slag Handling System, Bulk Material Handling System for BOF &amp; Ferro Alloy Stores)</p> <p><b>ISSUES</b></p> <ul style="list-style-type: none"> <li>➤ M/s OKIS was reluctant to follow inspection call procedures as per contract and submit all relevant documents. Subsequently, consortium re-constituted without M/s OKIS and Amendment order to contract was issued by ISP on 10.11.11.</li> <li>➤ Later, CFMCC has expressed their inability to proceed due to shortage of funds and the contract was amended on 18.1.13 with revised Responsibility Matrix with M/s Technofab having additional scope.</li> <li>➤ The party is under financial constraints and is not able to mobilise resources to complete the balance work.</li> </ul> <p>Change Order issued on 5.6.14 for Additional Job of PLC Installation for Rs.0.4 crore</p>	<p>China First Metallurgical Constr. Co. Ltd. Consortium/ Capital Engg. &amp; Research Inc./ Beijing Okis New Tech. Co. Ltd./ Technofab Manufacturing Ltd.) Kolkata</p> <p>The Consortium has been re-constituted as follows: CFMCC- Rs.30.7081 cr. CERI US\$566,000 Technofab - Rs.39.7213 cr.</p> <p><b>The contract was further amended on 18.1.13</b> CFMCC- Rs.18.5956 cr. CERI US\$566,000 Technofab - Rs.51.8339 cr.</p>	<p>74.98 (16.39)</p> <p>79.05 (15.72)</p> <p><b>86.50</b></p> <p><u>Gross Cost</u> – 90.51</p>	77.65	4.3.09	Jul'10 (Mar'18)	<p>BMHS &amp; FAS: In operation. Fork lift is balance in FAS. In BMHS, 3 nos. Belt Weigh Scales (BWS) have been commissioned (2 nos. in LDCCP area and 1 no. in BOF).</p> <p>BFSHS: BF Slag Granulation site was made available in Jun'12 after resolving Jhoraburi issue. Slag disposal system is in operation.</p> <p>PAC issued on 15.10.15. <b>CC issued on 29.3.18</b></p> <p><b>Under Conciliation, details provided separately. (Party's Claim – yet to be submitted)</b></p>	
26.	<p>External Water Supply Facility for BOF &amp; CCP (External Water supply system for BOF, CCP, SRU, HMDS. In shop water piping &amp; utility piping for BOF)</p> <p>Change Order issued-</p> <ul style="list-style-type: none"> <li>i) On 8.1.11 for Replacement of existing damaged pipes in the Scale Pit area for Rs.0.02 crore</li> <li>ii) on 8.10.14 for Additional job for Sludge transfer from storage hopper to truck loader for Rs.1.02</li> </ul>	<p>MBE/ Southern Cooling Tower Pvt. Ltd./ Resindia Water Treatment Pvt. Ltd. Kolkata</p>	<p>111.35 (nil)</p> <p>116.40</p> <p><b>119.23</b></p> <p><u>Gross Cost</u> – 120.98</p>	115.086	25.3.09	Sep'10 (Jan'15)	<p>PAC for the water supply system for BOF &amp; CCP including gas facilities for BOF complex issued with effect from 20.01.15. The job for Sludge transfer from storage hopper to truck loader completed and in operation. Commissioning completed on 19.05.2017 and CC issued by ISP on 26.05.2017. PG test completed. PG certificate issued on 25.7.18.</p>	

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP
	crore							
27a.	Erection of mechanical plant & equipment including refractory for BOF & CCP Scope BOF: Equipment – 15,600 t Refractory – 6628 t CCP: Equipment – 7572 t Refractory – 3000 t  <b>Erection contract with M/s UBEL terminated on 1.8.2014.</b>	UB Engg. Pune	41.99 (nil)  54.11 <u>Gross Cost –</u> 56.68	47.08	20.4.09	Oct'10/ Jun'10  –	BOF • 14,880/15,600t (95%) equipment received (Sch./ Likely - Mar'10/ -) • 2400/ 6628 t (36%) refractory received (Sch./ Likely - Jun'10/ -) • 14,809/ 15,600 t (95%) equipment erected (Sch./ Likely - Oct'10/ -) • 2254/ 6628 t (34%) refractory erected (Sch./ Likely - Jun'10/ -)  CCP • All equipment received (Sch./ Act. – Jul'09/ Mar'13) • 1788/ 3000 t (60%) refractory received (Sch./ Likely - Jun'10/ -) • 6618/ 7572 t (87%) equipment erected (Sch./ Likely - Jun'10/ -) • 1296/ 3000 t (43%) refractory erected (Sch./ Likely - Jun'10/ -) <i>Scope includes mechanical eqpt., technological structures and refractories.</i> <i>Balance jobs of BOF- 3 &amp; 2 and common facilities have been executed by M/s SMS Group and termination order has been issued on 28.1.15.</i> <i>Work order for balance mechanical erection of Converter-1 has been placed on M/s SMS (I).</i> <i>M/s UK Enterprise, Asansol was engaged for completion of balance mechanical jobs of CCM-1 &amp; CCM-2.</i> <i>In CCM-3, order was placed on M/s UK Enterprise for balance mechanical erection activities.</i> <b>RPN was issued to consortium on 19.07.2014 due to unsatisfactory progress of work by the party. Contract was terminated on 01.08.2014 and balance jobs were executed through separate contracts by various agencies.</b> <b>Under Court hearing (RPN Case), details provided separately. (Party's Claim Rs.44.02 cr., ISP's claim Rs.98.07 cr.)</b>	
27b.	Erection of Miscellaneous Plant & Equipment	Banerjee Enterprise, Asansol	3.215	0.85	26.9.13	Sep'14 (Nov'15)	Manpower was being supplied to other agencies.	
27c	Balance Mechanical Jobs for BOF Converter-3 & 2 of ISP	SMS India Pvt. Ltd., Gurgaon	on Cost Plus Fee Basis. 16.854	15.97	27.5.14	Jan'15	• Order placed on 27.5.14 • Balance work in Conv-3 and Conv-2 were executed. • Termination notice issued on 28.1.15.	
27d	Balance Mechanical Jobs for BOF Converter-1 of ISP	SMS India Pvt. Ltd., Gurgaon	on Cost Plus Fee Basis.  42.15	41.72	20.2.15	Dec'15 (Sep'16)	• Work order for balance erection of Converter-1 has been issued to M/s SMS (I) on 20.2.15 with completion schedule of 9 months from acceptance of work order or issuance of gate pass whichever is earlier. • <b>Contract closed</b>	
27e	Balance work & 1 month Commissioning of Technological equipment for CCM-1 & 2	UK Enterprises	Gross Cost - 1.58	1.58	7.8.14	Oct'14	Major work has been completed	
27f	Balance Mechanical Erection Work of Caster-3	UK Enterprises	on Cost Plus Fee Basis.	19.44	17.11.14	Mar'15 (Dec'15)	Major work has been completed	
28	Illumination, Earthing and Lightning protection for BOF & CCP	EMC Ltd., Kolkata/ Heavy Electricals & Engg., Panipat	6.45  6.97 <u>Gross Cost –</u> 7.49	4.55	16.4.09	Apr'10 (Aug'16)	<i>Illumination completed for all bays and major electrical buildings. Illumination in BOF cable tunnel and CCP pipe tunnel is balance.</i> <i>For erection works of Lightning Protection System of SMS Area, LOI has been issued to M/s Vector Industrial Service (Pkg-11-07A) on 12.11.2015. The job has been completed.</i>	

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29.	A/C & Ventilation Sys. for CCP (1 AC Plant, 3 nos. Chillers (2/ 3 working), Cooling tower, Air Handling Units, Pumps, Ventilation Pumps, Motors, Air Washers, Electrics etc.	Sterling & Wilson Pvt. Ltd. Kolkata	4.38 4.38 <b>4.38</b> <u>Gross Cost – 5.01</u>	4.69	23.5.09	Apr'10 <b>(Aug'15)</b>	AC system –3 Chiller M/c (2W+1S) - 325TR each. Serves 28 AHUs. 28 AHUs are Installed. System Operational and part PAC issued to M/s Sterling & Wilson on 11.08.2015 w.e.f. 31.07.2015. Ventilation System – Part PAC for Ventilation System issued on 30.08.2016 w.e.f. 12.08.2016. Commissioning certificate issued on 27.04.2017 w.e.f. 13.04.2017. <b>PG certificate issued on 23.4.18 with date of completion 16.4.18.</b>	
30.	A/C & Ventilation System for BOF 2 nos. AC Plant (AC Plant -1 - 3W+1S screw Chiller each 325TR serves 42 AHUs & AC Plant -2 1W+1S reciprocating chiller each 60TR, Cooling tower, Air Handling Units, Pumps, Ventilation Pumps, Motors, Air Washers & UAFs, Electrics, Ventilation for electrical rooms, cable basement and tunnel (45°C), Air conditioning(RH55±5%) for control rooms (24°C), and electrical rooms with electronics (35°C) Change Order issued on 18.2.14 for Revision of price schedule for Rs.1.44 crore	ABB Ltd. Kolkata	8.53 8.53 <b>8.93</b> <u>Gross Cost – 11.33</u>	10.84	11.7.09	Jul'10 <b>(Dec'15)</b>	Part PAC for AC system issued on 18.5.15 w.e.f. 04.05.2015. Part PAC for Ventilation System issued on 29.12.15 w.e.f. 23.11.15. Commissioning Certificate issued on 2.2.16 (w.e.f. 19.1.16). Balance punch points being expedited. PG test conducted - 1.6.16 to 4.6.16. PGC issued 18.10.2016 FAC issued on 16.03.17 w.e.f. 19.1.17 <b>Contract Closed on 5.4.2018</b>	
31.	Refractory for BOF/CCP	Various suppliers	13.06 13.06 <u>Gross Cost – 13.06</u>	14.05	various	various	<ul style="list-style-type: none"> <li>Refractory supply and erection completed.</li> <li>Additional requirement is being ordered separately.</li> </ul>	
32.	Balance fire fighting facilities for BOF	Tyco Fire & Security Kolkata	1.573 1.67 <u>Gross Cost – 1.77</u>	1.25	12.10.09	Jan'11 <b>(Oct'15)</b>	<ul style="list-style-type: none"> <li>Inergen system erected (114 nos.)</li> <li>CO2 system (18 nos.) erected.</li> <li>PAC issued on 7.10.15.</li> <li>Integrating commissioning is in progress, completed in Control Room &amp; Hydraulic Room.</li> </ul>	
33.	Elevators (BOF-2 nos. of 5t each & CCP – 1 no. of 1t)	Thyssen Krupp Elevator (I) Pvt. Ltd.	3.75 4.03 <u>Gross Cost – 4.12</u>	2.98	24.9.08	Mar'10 (-)	Supply of 3 nos. of elevators completed (Sch./ Act. - Jul'09/ Sep'09). 1 <sup>st</sup> BOF lift handed over to operation and is in operation without ARD (Automatic Rescue device). PAC issued on 3.3.15. For lift in CCP area, civil & structural part is ready, scaffolding is erected, mechanical & electrical erection to start. For 2 <sup>nd</sup> BOF lift, shaft is ready. M/s TKEP did not erect the balance two Elevators due to materials shelf life outlived after prolonged storage and also due to material stolen/missing from their store. Commercial Notice has been issued on 14.02.2020 to M/s ThyssenKrupp Elevator. M/s TKEP requested for an amicable settlement and held meeting in ISP, but had not submitted the proposal with details of the amicable settlement. ISP Law Dept. is examining the case for Risk Purchase Action. Tendering to be taken up.	
34.	Civil Work for BOF, CCP & Lime Dolo Plant  Piling – 7633 nos. RCC – 1,76,527 m3	Shapoorji Pallonji & Co. Ltd. Kolkata	199.63 (nil) 258.50 <b>410.86</b>		24.5.08	Oct'10 <b>(Mar'16)</b>	PAC issued on 18.5.16 w.e.f. 29.3.16. FAC issued on 12.9.18 (w.e.f. 6.7.17).  <b>Under Conciliation, details provided separately. (Party's Claim -)</b>	

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP
	Change Orders issued: 1) Extra item & Increase in existing items of BOQ dated 2.7.10 – Rs.33.37 crore 2) Extra Item - Metal Trough Sheet dated 23.4.11 – Rs.2.45 crore 3) Extra Item – Basalt Lining dated 19.5.11 – Rs1.62 cr. 4) Extra Item & Increase in existing items of BOQ dated 2.6.12 – Rs.99.85 crore 5) Extra Item & Increase in existing items of BOQ dated 4.4.13 – Rs.2.26 crore 6) Extra Item & removal of existing rail of torpedo track & re-fixing dated 6.5.14 – Rs.0.03 crore 7) Revision of Quantities of existing items of BOQ dated 22.7.14 – Rs.8.391 cr. 8) Extra items dated 9.6.15 – Rs.0.12 crore.		<u>Gross Cost –</u> 442.02	351.77				
35.	Structural Work for BOF, CCP & Lime Dolo Plant  Strl. Steel – 51,380 t Sheeting – 2,14,911 m2  1) Extra Item & Increase in existing items of BOQ dated 16.4.11 – Rs.126.63 crore 2) Extra items dated 21.5.13 – Rs.0.04 crore. 3) Extra items dated 29.7.13 – Rs.0.08 crore. 4) Extra items dated 9.6.14 – Rs.1.37 crore. 5) Extra items dated 19.1.15 – Rs.0.25 crore. 6) Modfrn/ Addl. jobs dated 5.3.15 – Rs.0.98 crore. 7) Extra items dated 18.5.15 – Rs.1.68 crore.	Nagarjuna Constr. Co. Ltd., Hyderabad	278.91 (nil)  413.53 <b>486.66</b>  <u>Gross Cost –</u> 495.42	414.85	22.5.08	Jan'11 <b>(Jan'16)</b>	<i>PAC issued for complete package on 21.08.2014</i> <i>FAC issued on 27.1.16.</i> <b>Conciliation failed.</b>  <b>Issues pertaining to both structural Pkgs of M/s NCC (applies to Sl. 42 also)</b> <b>Cess Issue Total claim Rs.6.51 cr. plus interest</b> <b>Under Court hearing, details provided separately.</b>  <b>Party's claim Rs.101.85 cr./ Rs.66.01 cr.</b> <b>Under Arbitration, details provided separately.</b>	
36.	Additional civil work for Rolling mills, BOF, CCP including LDCP  Piling – 22,929 nos. RCC – 55,150 m3  1) Extra items dated 29.9.09 – Rs.26.49 crore. 2) Extra items & Increase in existing	L & T Mumbai	178.15 + 33.51 (cost of steel) 312.74 <b>312.74</b>  <u>Gross Cost –</u> 326.58	303.99	14.3.09	Mar'10 <b>(Jan'13)</b>	<i>PAC issued on 4.1.13.</i> <i>FAC issued on 21.09.2015.</i> <i>Final billing is certified.</i> As per request of L&T, citing their financial difficulties, before the Conciliation committee in 1st Conciliation meeting held on 23.11.16, an amount of Rs. 11.90 Cr. was released on 04.01.2017 as an interim payment. Subsequent Conciliation meetings were held on 11.01.17, 12.01.17, 15.02.17 and 10.3.17.	



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	items of BOQ dated 2.7.10 – Rs.56.44 crore.						In the 6 <sup>th</sup> meeting held on 23.05.17, it was decided that the Conciliation Committee would put up their proposal to the parties for settlement by 30.6.17. Next meeting was to be held on 17.7.2017, but not held. <b>The proposal submitted by SS Agarwal (L&amp;T representative) was not accepted by ISP Conciliators. ISP's proposal also was not accepted by L&amp;T conciliator.</b>  <b>Under Arbitration, details provided separately. Party's Claim Rs.33.70 cr.</b>	
37.	Additional Strl. Work for BOF, CCP & LDCC  Strl. Steel – 30,986 t Sheeting – 1, 58,633 m2  1) Extra items dated 14.10.11 – Rs.78.55 crore. 2) Increase in Quantities dated 9.7.14 – Rs.84.92 crore. 3) Modfrn/ Addl. jobs dated 25.7.14 – Rs.0.35 crore. 4) Modfrn/ Addl. jobs dated 31.8.15 – Rs.0.60 crore.	Simplex Infra Kolkata	41.01 + 74.65 (Cost of steel )  200.75 <b>208.50</b>  <u>Gross Cost –</u> 217.37	125.88	11.08.09	Jun'10 (Sep'15)	PAC issued for all units on 17.9.15. <b>Contract Closed on 14.6.19.</b>	
<b>Rolling Mills Complex</b>								
38.	Reheating Furnace (1 x 180 tph –USM, 1 x 150 tph WRM & 1 x 160 tph BM)  Equipment – 9220 t Refractory – 3500 t  Change Order issued – i) Modification/ replacement of furnace combustion and control system of Re-heating furnace for WRM for use of CO Gas (dated 19.12.11) – Rs.0.126 cr. Euro 142,000 ii) Additional Foreign supervision of 300 Mandays (dated 27.11.14) – US\$ 2,67,384 iii) Additional Foreign supervision of 150 Mandays (dated 4.12.15) –US\$ 1,33,692.9	Bricmont, USA/ Gillander Arbuthnot, Kolkata	167.65 (53.99)  183.04 (62.12) <b>180.59</b>  <u>Gross Cost –</u> 202.64	180.04	11.10.07	Oct'09 (WRM - Mar'13) (BM –Feb'15) (USM –Jun'15)	RHF of Wire Rod Mill is in use. WRM RHF has been re-lighted with mixed gas after modification in burners for receiving mixed gas in place of CO gas. PAC (on 29.3.13) & Commissioning certificate (on 26.12.13) issued.  1 <sup>st</sup> hot billet discharge from RHF of Bar Mill successfully done on 25.2.15. PAC issued on 22.1.14, Commissioning certificate issued on 13.10.15  RHF of Universal Section Mill was lighted up on 14.6.15 and first Beam Blank was discharged on 16.6.15. PAC issued on 21.4.15 Commissioning certificate issued on 6.7.17. Level-2 Automation jobs for all the RHF's (WRM, BM & USM) have been completed. <b>PG test for USM RHF completed successfully on 23.4.18.</b> <b>PG certificate for USM RHF issued on 25.9.18 w.e.f. 23.4.18.</b>  <b>PG Test of WRM &amp; BM RHF to be done along with the mills. Punch list to be liquidated.</b>	
39.	Wire Rod & Bar Mill (Rated capacity- WRM - 0.55 Mtpa, BM - 0.9 Mtpa)  Equipment – 9220 t  Change Orders issued –	Danieli & C, Italy/ Danieli Eng., India/ Shriram EPC Ltd. Chennai	698.97 (307.97)  771.97 (358.80) <b>806.99</b>		13.10.07	Dec'09 (Mar'13/ Feb'15)	<u>Wire Rod Mill</u> PAC issued on 30.3.13 Hot trials of WRM started on 31.3.13 with billets procured from DSP. The coils are being dispatched both by rail and road. Commissioning tests of WRM started on 7.8.13 and concluded successfully on 12.8.13. Commissioning targets achieved with a total production of 4150t of 10 mm plain round wire rod coils against the	

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	i) Erection of two nos. compressors, accessories along with piping & electric work on 28.6.13 for Rs.0.04 crore. ii) Additional Foreign supervision of 132 Man months (dated 31.8.13) – Euro 22,67,496		Gross Cost – 898.62	840.06			requirement of 4050t. (Total production of 4050t has to be achieved in 5 days @ 810t /day in 3 shifts working).  Commissioning certificate for WRM issued on 15.4.2014  8 mm TMT Rolling started on 19.12.14 with ISP produced billets. <i>Coils Produced:</i> <b>2013-14 - 37,026 t</b> <b>2014-15 - 89,669 t</b> <b>2015-16 – 2,71,002 t</b> <b>2016-17 – 3,19,149 t</b> <b>2017-18 – 3,57,474 t</b> <b>2018-19 – 3,39,284 t</b> <b>2019-20 – 4,12,067 t</b>  <b>2020-21 (upto Sep'20)- 1,57,144 t</b> <table border="1"> <tr> <td>Apr'20</td> <td>14,376 t</td> <td>Oct'20</td> <td></td> </tr> <tr> <td>May'20</td> <td>17,696 t</td> <td>Nov'20</td> <td></td> </tr> <tr> <td>June'20</td> <td>31,388 t</td> <td>Dec'20</td> <td></td> </tr> <tr> <td>Jul'20</td> <td>32,664 t</td> <td>Jan'21</td> <td></td> </tr> <tr> <td>Aug'20</td> <td>34,032 t</td> <td>Feb'21</td> <td></td> </tr> <tr> <td>Sep'20</td> <td>27,038 t</td> <td>Mar'21</td> <td></td> </tr> </table>	Apr'20	14,376 t	Oct'20		May'20	17,696 t	Nov'20		June'20	31,388 t	Dec'20		Jul'20	32,664 t	Jan'21		Aug'20	34,032 t	Feb'21		Sep'20	27,038 t	Mar'21		
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							<b>Best Prodn. in a day – 1786 t on 27.3.17 (12 mm dia plain)</b> <u>Bar Mill</u> 1 <sup>st</sup> rolling of hot billet successfully completed on 25.2.15. With this hot trial of Bar Mill successfully done. PAC issued on 29.7.14. Commissioning test done from 28th May to 3rd Jun'15 for 20mm rebar. Commissioning certificate for BM issued on 16.12.2015. EWR (Endless Welding Rolling) –Trial of Billet welding Machine has been done with 2, 3, 4 and 5 billets. Both lots of billet welding M/c has been received at ISP. Team of Danieli is working on site, trial testing is in progress.  Completeness of Laboratory & Roll Shop facilities - Out of total 26 nos. of machines, 24 nos. machines had been commissioned and handed over. Laboratory is in use now by RCL. Remaining 2 nos. of laser cutting machines could not be commissioned as OEM is closed. M/s Danieli is exploring alternative now. 3 shift rolling started from 18.1.16. <u>Bars Produced</u> <b>2014-15 – 1258 t</b> <b>2015-16 – 1,55,240 t</b> <b>2016-17 – 4,09,037 t</b> <b>2017-18 – 5,23,103 t</b> <b>2018-19 – 5,37,886 t</b> <b>2019-20 – 6,32,449 t</b>  <b>2020-21 (upto Sep'20)- 1,70,727 t</b> <table border="1"> <tr> <td>Apr'20</td> <td>8073 t</td> <td>Oct'20</td> <td></td> </tr> <tr> <td>May'20</td> <td>43,743 t</td> <td>Nov'20</td> <td></td> </tr> </table>	Apr'20	8073 t	Oct'20		May'20	43,743 t	Nov'20																		
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40	Universal Section Mill (Rated Capacity - 0.85 Mtpa)  Equipment – 9637 t  Change order issued – 1) On 20.7.15 for Additional Foreign Supervision of 700 mandays for Euro 10,32,785 (Rs.7.12 Cr.) 2) On 8.1.16 for Additional Foreign Supervision of 600 mandays for Euro 840,960 (Rs.6.1 Cr.)	SMS Meer, Germany/ Siemens, Mumbai/ Mukand, Mumbai/ Techno Fab, Kolkata	696.49 (396.19)  756.74 (439.28) <b>817.54</b>  <u>Gross Cost –</u> 915.10	846.08	13.10.07	Oct'09 (Jun'15)	<p>Hot trial of USM started on 16.6.15 by taking out first Beam Blank. PAC issued on 16.6.15. Commissioning test has been completed with IPE 300 (I Section). Commissioning Certificate issued on 5.7.17. Rolling of Sections IPE300, EA150X150X12, EA200x200x16, EA200x200x20, HE300, IPE 500, IPE 500A, IPE 400, IPE 400A, IPE 450, IPE 600 and NPB 750 have been demonstrated.</p> <p>Rolling of Z-Profile - SMS Meer to demonstrate</p> <p>Rolling of UPN 300 (Channel) - trials were taken up in Dec'18 (upto BD Mill) by SMS Meer, however, it was not successful. Trials again taken in July'19. There is positive dimension deviation.</p> <p>ISP is planning for demonstration of rolling of 60 kg rail in existing USM as a replacement of Z-pile. However as finishing facility for rails is not available at USM, rail rolling can only be demonstrated up to Hot Saw of existing USM. The commercial implication for the same will be mutually settled with customer in consultation with MECON, the consultant. Reply from SMS Meer is awaited.</p> <p><b>Production -</b>  <b>2015-16 – 13,113 t</b>  <b>2016-17 – 1,28,845 t</b>  <b>2017-18 – 1,45,277 t</b>  <b>2018-19 – 2,46,068 t</b>  <b>2019-20 – 1,71,589 t</b>   <b>2020-21 (upto Sep'20)- 0 t</b></p> <table border="1"> <tr><td>Apr'20</td><td>0 t</td><td>Oct'20</td><td></td></tr> <tr><td>May'20</td><td>0 t</td><td>Nov'20</td><td></td></tr> <tr><td>June'20</td><td>0 t</td><td>Dec'20</td><td></td></tr> <tr><td>Jul'20</td><td>0 t</td><td>Jan'21</td><td></td></tr> <tr><td>Aug'20</td><td>0 t</td><td>Feb'21</td><td></td></tr> <tr><td>Sep'20</td><td>0 t</td><td>Mar'21</td><td></td></tr> </table> <p><b>Highest in a day 1430 t on 7.11.18 (IPE 500)</b></p>	Apr'20	0 t	Oct'20		May'20	0 t	Nov'20		June'20	0 t	Dec'20		Jul'20	0 t	Jan'21		Aug'20	0 t	Feb'21		Sep'20	0 t	Mar'21			
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Sep'20	0 t	Mar'21																															
41.	Civil work for Rolling Mills Piling – 5373 nos. RCC – 184,607 m3  Change Orders issued:	Shapoorji Pallonji & Co. Ltd. Kolkata	184.61 (nil)  217.03 <b>369.68</b>		24.5.08	Apr'10 (Aug'15)	<p>All civil works completed on 20.8.15. PAC issued on 22.09.15. FAC has been issued on 29.3.17 (w.e.f. 25.9.15).</p> <p><b>Under Conciliation, details provided separately.</b></p>																										

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP
	i) Extra item & Increase in existing items of BOQ dated 2.7.10 – Rs.12.75 crore ii) Extra Item – Basalt Lining dated 23.5.11 – Rs2.43 cr. iii) Extra Item & Increase in existing items of BOQ dated 2.6.12 – Rs.99.53 crore iv) Extra Item & Increase in existing items of BOQ dated 25.4.13 – Rs.3.31 crore v) Revision in BOQ dated 3.6.14 – Rs.0.03 crore vi) Revision in BOQ dated 21.4.15 – Rs.0.56 crore vii) Extra items dated 9.6.15 – Rs.0.03 crore.		Gross Cost – 400.54	303.63			(Party's Claim -)	
42.	Structural Work for Rolling Mills Strl. Steel – 27,404 t Sheeting – 2,17,588 m2  Change Orders Issued - i) Increase in Quantities dated 13.4.11 – Rs.52.43 crore. ii) Modfrn/ Addl. jobs dated 18.5.15 – Rs.0.30 crore.	Nagarjuna Constr. Co. Ltd., Hyderabad	192.88 (nil)  253.00 Gross Cost – 486.66 277.86	234.63	22.5.08	May'10 (Oct'13)	PAC issued on 03.04.2014 (w.e.f 31.10.13). FAC issued on 2.7.15. Payment of FAC is pending for compliance of contract closure procedure, which stipulates a 'No Claim Certificate' from the contractor.  <b>Guaranteed CENVAT and Other issues Claim Rs.66.01 cr. – Refer Sl. No.35</b>	
<b>Services</b>								
43.	Main Receiving Station  Piling – nil RCC – 4500 m3 Strl. Steel –278 t Equipment – 1500 t  Change Orders Issued - i) Extra Items & Increase in Quantities dated 11.8.09 – Rs.0.12 crore. ii) Proc. & Installation of alt. Fire Fighting System dated 7.5.10 – Rs.0.09 crore.	ABB, Ltd. Kolkata	63.03 (nil)  68.63 68.79  Gross Cost – 75.18	72.13	9.10.07	Oct'09 (Jul'11)	MRS commissioned on 16.7.11. PAC issued on 12.3.10 Commissioning Certificate issued on 21.6.14. PG Certificate issued on 1.3.16. <b>FAC issued on 28.6.17.</b>	
44.	Power & Blowing Station (3 x 200 tph Boilers, 3x18MW STG, 1x8.275 BPTG, 3x2,28,600 Nm3/hr TB)  Piling – 2658 nos. RCC – 27,093 m3 Strl. Steel – 9286 t Equipment – 12,500 t	BHEL New Delhi  For Restoration of Boiler-3, Work Order has been placed on BHEL on 31.3.14 for Rs.22 crore (excl. taxes & duties and insurance) to be completed in 8	672.66 (nil)  720.80 743.38  Gross Cost – 835.64	732.35	12.10.07	Dec'09 1 <sup>st</sup> STG : May'13 2 <sup>nd</sup> STG : Jul'13 3 <sup>rd</sup> STG : Mar'14 1 <sup>st</sup> TB – Mar'14 2 <sup>nd</sup> TB – May'14 3 <sup>rd</sup> TB – Nov'14	1 <sup>st</sup> Boiler and 2 <sup>nd</sup> Boiler are in operation BF gas is being used in firing burners of Boiler in Power and Blowing station Islanding trial and subsequent synchronization with Grid was successfully done on 25.5.15 in STG-3. Back Pressure Turbine Generator (BPTG) was rolled and synchronised on 22.9.15. <b>Restoration work of Boiler- 3 (Sch./ Act. – Nov'14/Mar'16)</b> PAC certificate for Balance jobs of PBS including Boiler-3 issued on 31.10.2015.	

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	<p><u>ISSUES</u></p> <p>➤ Some of the pipes which were erected were found to be defective on Inspection by the Boiler inspector. The pipes having alloy steel stamped on them, were found to be of carbon steel – 20m of 6"dia pipes, 860 m of 8"dia pipes and 9 m of 16"dia pipes. These pipes and their supports have been replaced by alloy pipes.</p> <p>➤ Boiler No.3 was stopped on 12.3.13 due to an explosion in the Economizer Zone due to prolonged running of the Boiler with only LDO (fuel). Boiler-3 has now been restored.</p> <p>Change Orders Issued -</p> <p>i) Restoration of Boiler-3 dated 31.3.14 – Rs.22.00 cr.</p>	months.					<p>Boiler light up with Light Diesel Oil (LDO) done on 31.3.16. CBM firing was done on 12.5.16. Boiler-3 running with COG &amp; CBM combined fuel was connected to Main Steam Header on 26.8.16.</p> <p>Commissioning Certificate has been issued on 14.10.16 (w.e.f. 23.9.16)</p> <p>Fuel firing of Boiler-3 with BFG was done successfully on 30.11.16. Subsequently, it was stabilized from all 4 corners and is in operation.</p> <p><b>The PG test of Boiler-3 completed on 4.5.18.</b>  <b>PG test of All Turbo blowers and STGs completed on 26.11.18.</b>  <b>PG certificate issued to M/s BHEL on 26.11.19 w.e.f 26.11.19</b></p>	
45.	<p>Oxygen Plant (2 x 750 tpd ASU)</p> <p>Piling – 1337 nos. RCC – 9400 m3 Strl. Steel –1505 t Equipment – 2850 t</p> <p>Change order issued:</p> <p>i) Extra scope for providing Permanent liner for piles dated 12.2.09 for Rs.8.82 cr. ii) Modifications in PRMS dated 5.9.11 for Rs.0.53 crore.</p>	Linde AG, Germany/ BOC, Kolkata	<p>377.99 (190.89)</p> <p>432.03 (224.20) <b>492.05</b></p> <p><u>Gross Cost –</u> 545.46</p>	504.31	12.10.07	<p>Jan'10 <b>(Stream-1- Oct'14 Stream-2 - Apr'15)</b></p>	<p>Hot Trials started on 21<sup>st</sup> Jan.'12. Trial Run of 2 nos. Main Air Compressor Motors and 2 nos. Booster Air Compressor motors successfully completed.</p> <p>Supply of Oxygen to BOF shop from liquid Oxygen tanks started from 8.9.14.</p> <p>After refurbishment, Production of gaseous and liquid Nitrogen as well as gaseous and liquid Oxygen of required purity started on 21.10.2014 from Train-1.</p> <p>After refurbishment, Train-2 was started on 24.4.2015. Production of gaseous and liquid Nitrogen &amp; Oxygen started on 6.5.15.</p> <p>PAC issued – 17.12.13 CC issued – Train-1 – 31.12.15 (eff. Date 10.12.14) Train-2 – 31.12.15 (eff. Date 16.05.15)</p> <p>In Plant-1, 4 nos. of rotor assemblies of MAC and BAC have been repaired and re-balanced at Atlas Copco's factory in Cologne, Germany.</p> <p>Production from Train-1 started from 19.8.16. PG test completed – Train-1 – 24-27.11.16 Train-2 – 16-19.12.16</p> <p><b>PG certificate issued on 4.9.17.</b>  <b>FAC issued 30.08.2019 with date of completion 22.08.2019.</b>  <b>LD Deducted – Rs.0.03 cr.</b></p>	
46.	<p>Plant Power Distribution System including Cable Tunnels (10 Load Block Distribution Stations)</p> <p>Piling – 4506 nos. RCC – 36,160 m3 Strl. Steel –1250 t Equipment – 4550 t</p>	Areva T& D India Ltd., Kolkata/ EMC Ltd. Kolkata	<p>183.72 (nil)</p> <p>199.66</p> <p><u>Gross Cost –</u> 225.48</p>	187.07	31.7.08	<p>Apr'10 <b>(Jan'14)</b></p>	<p>The status of 10 LBDS is as follows-  <u>LBDS 1</u> (for BF No.5/ CDI), Commissioned on 26.5.12  <u>LBDS 2</u> (for COB 11), Commissioned on 14.11.11  <u>LBDS 3</u> (for Sinter Plant) CEA inspection done. Commissioned on 26.4.12  <u>LBDS 4</u> (for BOF &amp; CCP), Charged on 25.5.13  <u>LBDS 5</u> (for USM), Charged on 28.6.12  <u>LBDS 6</u> (for Water Treatment Plant), energized on 30.9.11, Sub-station commissioned on 28.9.11</p>	

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	Change order issued: i) Supply of additional 55 nos. of 6.6 kV Switch Board Panels dated 31.12.09 for Rs.2.37 cr.						<p><u>LBDS 7</u> (for RMHS), Commissioned on 8.12.11  <u>LBDS 8</u> (for WRBM), Commissioned on 21.3.12  <u>LBDS 9</u> (for Oxygen Plant) energized on 30.9.11, Sub-station commissioned on 3.10.11  <u>LBDS 10</u> (for LDCCP/ Intake Pump House), HT Board and Power transformer has been energized.  Casting of cable tunnel completed (5824 m).  67.7 km of 33/6.6/11 kV cables laid in cable tunnel.  All S/S are in operation with CEA clearance.  Complete PAC issued on 27.06.2017.  CC issued on 6.6.18 (w,e,f 7.4.18)</p>	
47.	<p>Water Supply System  (Raw water reservoir, Raw water treatment Plant, OHT (MW 1950 cum, DW 100 cum), Cross country line and electrics, Sump and Pump Houses, Distribution network with tappings)  Piling –64 nos.  RCC – 19,150 m3  Strl. Steel –257 t  Equipment – 6000 t</p> <p>Change order issued:  i) Misc. work and Extra items dated 30.4.11 for Rs.1.06 cr.  ii) OH Cable bridge / rock cutting dated 12.5.11 for Rs.2.35 crore  iii) Extra jobs dated 7.3.14 for Rs.0.05 crore.</p>	Ion Exchange (I) Ltd. / PK Thakur & Co Pvt. Ltd. Kolkata	<p>93.36 (nil)  99.90  <b>97.12</b></p> <p><u>Gross Cost –</u>  112.16</p>	99.93	28.11.08	<p>May'10  <b>(Jun'13)</b></p>	<p>37,010 m of Distribution Network Pipeline laid.  Make-up water system started and Make-up water is being supplied to all major units of ISP expansion.  Drinking Water is being supplied to all major units of Iron Zone, WRM &amp; MRS.  PAC issued on 9.9.13.  PG test conducted from 12.03.2015 to 19.03.2015.  PG certificate issued on 12.06.2015.  <b>FAC issued on 12.1.18</b></p> <p><b>Guaranteed CENVAT Claim by Party Rs.2.66 cr. Under Arbitration, details provided separately.</b></p> <p><b>Claim for extra work by Party Rs.13.89 cr.) Under Court Hearing, details provided separately.</b></p>	
48.	<p>Inter-Plant Pipelines for Gas &amp; Utilities  75 km. of Gas Pipelines (25 mm. to 3000 mm. Size) + 3 nos. Gas Mixing Stations</p> <p>Piling –849 nos.  RCC – 13,827 m3  Strl. Steel –4500 t  Equipment – 5600 t</p> <p>Change order issued:  i) Laying of Addl. CO gas pipeline dated 8.10.11 for Rs.0.62 cr.  ii) Extra work for Pickling HPN line dated 26.3.14 for Rs.1.80 crore  iii) Addl. Piping work dated 1.12.12 for Rs.1.94 crore.  iv) Extra Work dated 8.12.15 for Rs.0.79 crore</p>	Tata Projects Ltd Kolkata	<p>130.50 (nil)  164.64  <b>166.30</b></p> <p><u>Gross Cost –</u>  177.66</p>	144.74	9.6.09	<p>Jun'10  <b>(Mar'14)</b></p>	<p>All 3 gas mixing stations (for Mills, Sinter Plant &amp; LDCCP) are ready. The mixing station in mills area and LDCCP area is in operation.  PAC issued on 22.03.2014.  All facilities are in operation except gas mixing station of Sinter Plant as user department is using only CO gas at present.  Commissioning Certificate issued on 13.2.16 (w.e.f 19.11.15).  <b>PG Certificate issued on 28.8.18.</b></p> <p><b>Under Arbitration, details provided separately. (Party's Claim Rs.55.66 cr.)</b></p>	

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49.	Gas Boosting Station- Boosting Stations – 2 nos. COG Booster for Sinter Plant (1 working & 1 Standby) 1 no. MG Booster for RHF	TLT Engg. Kolkata	8.23 (nil)  8.79 <b>8.89</b>  <u>Gross Cost –</u> 9.44	9.09	23.6.09	Jun'10 <b>(Sep'13)</b>	PAC issued on 23.9.13. MG Boosting - At present Reheating Furnaces are running on Mixed Gas (BF gas and CBM). Adequate pressure is already available without boosting. <b>Operation of Mixed Gas Boosting Station started on 6.6.19.</b> Hot trail of CO gas boosting station completed. Presently, one booster is in operation to cater CO gas at desired pressure to Sinter Plant. Other booster is in standby mode. Commissioning Certificate issued on 13.2.16 (w.e.f 9.5.15).	
50.	Centralized Compressed Air Station (5 compressors – 300 Nm3/min) (3 Working/ 2 standby)  Piling –nil RCC – 2000 m3 Strl. Steel –218 t Equipment – 400 t	Blue Star Ltd., Mumbai/ Ingersoll Rand, Bangalore	41.40  44.35 <b>43.45</b>  <u>Gross Cost –</u> 48.36	40.33	17.6.09	Aug'10 <b>(Apr'14)</b>	Compressors no. 1, 2, 3 & 5 are being operated as per requirement - PAC issued in Apr'14.  Compressor no.4 – Hot trial completed in Mar'18. Commissioning Test has been completed 24-27.4.19. Compressor # 4 was in defective state from beginning, necessary rectification was done by the contractor. Hence commissioning of the package got delayed. PG Test of the Package is pending.	
51.	Diesel Electric Loco – 4 nos. (Qty. Revised to 3 nos., 700HP each)	BHEL	9.70 (nil) 9.70 <b>9.49</b> <u>Gross Cost –</u> 10.46	9.72	14.1.09	Mar'10 <b>(Dec'14)</b>	All three locos have been commissioned and are in operation. Commissioning Certificate issued.	
52.	Hydraulic lab	Parker Hanifin India Pvt. Ltd.	1.46 (nil) 1.46 <b>1.49</b> <u>Gross Cost –</u> 1.58	1.45	5.3.09	Jan'10 (Sep'20)	<ul style="list-style-type: none"> <li>Present Status:</li> <li>Material received in 2012. Party was given erection clearance in Feb'16. Party started erection activity on 11.08.16. Test Bench erection including electrical jobs completed.</li> <li>Before start of trial run and checking by M/s Parker, it was found that drive &amp; cables of test bench are damaged due to water ingress and long storage.</li> <li>Damaged drive &amp; Cables of test bench needs replacement at extra cost as warranty of Component /machine expired long back.</li> <li>A committee is formed to resolve the issue. Awaiting approval of RCE for allocation of additional fund of approx. 20.0 Lacs.</li> <li>The Party was asked for submission of fresh quotation for drive and cables.</li> <li>Additional budget for procurement of drive and cable already has been approved in September'2019 in RCE.</li> </ul>	
53.	Plant Wide Networking	Wipro Networks Pvt. Ltd. Kolkata	4.62 (nil) 4.96 <b>4.78</b> <u>Gross Cost –</u> 5.18	3.79	25.4.09	Jul'10 <b>(Dec'16)</b>	PAC issued on 10.12.16. <b>Commissioning Certificate issued on 24.2.17. (date of completion 24.2.17)</b>	
54.	Road weigh bridge 4 nos. – 100t each 2 near LDCP & 2 near Sanmara gate	Endeavor Instruments Pvt. Ltd., Ahmedabad	0.53 (nil) 0.54 <b>0.54</b> <u>Gross Cost –</u>	0.35	4.5.09	Nov'09 <b>(Oct'15)</b>	Road weigh Bridge 1 & 2 inaugurated by Chairman, SAIL on 22.6.10. Road Weigh Bridge 3 & 4 in use Nos. 1 & 2 are in use (Sanmara Gate). For rest 2, use has been identified at LDCP. PAC issued on 12.10.15.	

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			0.56				<b>Commissioning Certificate issued on 6.10.17.</b>	
55.	Energy Monitoring Center Signals for gases and utilities from OPC Compliant L-1 Systems of various process units to be displayed and monitored.	Masibus Automation	0.5775 (nil)  0.58 <b>0.60</b> <u>Gross Cost –</u> 0.61	0.49	8.5.09	Aug'10 <b>(Jul'16)</b>	13/13 systems are ready for data acquisition. COB#11, CDCP, By-Product plant, Sinter plant, PBS, WRM Reheating furnace. Flare Stack, Blast Furnace, Coal dust Injection, Oxygen plant, Centralised Compressed Air station transfer of data from shop location to centralised EMC located in General building	
56.	Server based Telephone Exchange Total 16 exchanges.	Wipro Ltd.	2.73 (nil)  2.73 <b>2.58</b> <u>Gross Cost –</u> 2.86	2.34	30.5.09	May'10 <b>(Feb'17)</b>	PAC issued on 8.2.17. Commissioning certificate issued on 11.2.17.	
57.	Cranes, Hoists & Transfer Cars for Various Shops (5 nos. of cranes + 4 hoists) Area Repair Shop – 30t+ 2 hoists (3t+5t) Electric Repair Shop – 20t + 3t hoist Diesel Loco shop -50t +3t hoist Central Plant Store – 10t (EOT)+20t (gantry)	Grip Engineers, Faridabad, India	2.45 (nil) 2.62 <b>2.68</b> <u>Gross Cost –</u> 3.07	2.24	22.5.09	May'10 <b>(Nov'18)</b>	Load test and over load test are completed for all cranes and electric hoists	
58.	Electronics & Instrumentation Repair Shop cum laboratories (Electrical & Electronic instruments, Temperature & Pressure instruments, ETL & CMD Instruments, Test Benches)	Masibus Automation & Instrumentation Pvt. Ltd., Kolkata	3.307 (nil)  3.31 <u>Gross Cost –</u> 3.59	2.78	17.8.09	Aug'10 <b>(Jan'15)</b>	Majority of the instruments and test benches are installed and handed over to user department. PAC issued to the party on 01.01.15. 9 nos. of defective instruments are under repair.	
59.	Pneumatic Sample Transport Sys.	Kerri Engg. Works	0.76 (nil) 0.82 <b>1.08</b> <u>Gross Cost –</u> 0.90	0.99	1.4.09	Jul'10 <b>(Apr'16)</b>	All the lines have been laid - 2 Lines from Container Lab (+9.5 m) to Express Lab - one line each from LHF-1 & LHF-2 to Express Lab - From CCM- 1 & 2 - From CCM-3 - From RH Degasser (not running presently) - From Torpedo Ladle Load test completed on 13.8.15. Lines are in operation PAC issued on 13.4.16. Commissioning certificate issued on 23.5.17. <b>PG Certificate issued on 15.6.18.</b>	
60.	Road Transport Eqpt./ Mobile Equipment for BOF & CCP	BEML	15.38 (nil) 15.38 <b>15.12</b> <u>Gross Cost –</u> 16.59	14.08	31.3.09	Mar'10 <b>(Jul'11)</b>	• Order placed on 31.3.09. • Supply has been completed.	
61.	LDO Storage and Handling System	Spacotech, Mumbai	0.56 (nil) 0.56 <b>0.56</b> <u>Gross Cost –</u> 0.61	0.50	15.5.09	Feb'10 <b>(Mar'14)</b>	PAC issued on 15.03.2014. Contractor has refused to liquidate punch points and requested for conciliation.	



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62.	Fire Tender	Wadia Body Builders	1.08 (nil) 1.08 <b>1.05</b> <u>Gross Cost –</u> 1.08	0.33	20.5.09	Jan'10 (-)	<ul style="list-style-type: none"> <li>Work Order Issued on 20.5.09.</li> </ul> <b>Present Status:</b> <ul style="list-style-type: none"> <li>Order was placed on party for supply of 02 nos. Water Tender &amp; 01 no. DCP Tender.</li> <li>01 no. Water Tender received and commissioned in August'16. However, its name transfer process was completed in March'19.</li> <li>As per requirement of Fire Department and CISF, order for 01 no. Water Tender cancelled and process of procurement of Combination Tender started.</li> <li>Delivery of 01 no. DCP Tender is pending.</li> <li>Performance of party is not satisfactory.</li> <li>01 No.DCP Purchase Order stands cancelled on 06.03.2020.</li> <li>Fresh Purchase action to be initiated by the user department</li> </ul>	
63.	Ambient Air monitoring System (4 nos. of monitoring stations)	Chemtrols Industries Ltd.	2.13 (nil) 2.13 <b>2.34</b> <u>Gross Cost –</u> 2.30	2.96	25.6.09	Jun'10 (Jul'14)	<p><i>Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at SCOB gate, Sanmara gate, Dharampur Rly yard and WTP area erection completed.</i></p> <p><i>PAC issued on 30.07.2014.</i></p> <p><i>At present only 1 no. (at Sanmara Gate) is in operation (commissioned on 24.2.16). PG test of CAAQMS at Sanmara Gate completed.</i></p> <p><i>For balance 3 CAAQMS, few analyser components alongwith 3 nos. Display Boards were faulty. Change order has been issued and items replaced.</i></p> <p><b>Commissioning certificate issued on 23.4.18 (w.e.f. 23.2.18).</b></p>	
64.	Additional Fire Tenders (foam)	Wadia Body Builders	0.3251 (nil) 0.33 <b>0.33</b> <u>Gross Cost –</u> 0.33	0.33	29.6.09	Jan'10 (Jun'11)	<ul style="list-style-type: none"> <li>LOA issued on 26.6.09.</li> <li>Supply completed</li> <li>Commissioning certificate issued in 2011</li> </ul>	
65.	Equipment for loco repair shop/ maintenance garage	Various suppliers	2.65 (nil) 2.65 <u>Gross Cost –</u> 2.70	0.76	various		<ul style="list-style-type: none"> <li>LOA issued to all groups.</li> <li>Equipment supply partly (~50%) completed.</li> <li>Validity of balance Purchase Orders has expired.</li> </ul>	
66.	Road transport equipment (other than BEML)	Various suppliers	12.34 (nil) 12.34 <u>Gross Cost –</u> 12.85	7.80	various	Oct'10 (Mar'17)	<ul style="list-style-type: none"> <li>LOA issued to all groups.</li> <li>6/7 items Supply completed. Balance is 10 t Trucks (1 nos.). Tender to be issued.</li> </ul>	
67.	Civil Work for LDO Storage & Flare stack	Friends Construction	1.13 (nil) 1.13 <u>Gross Cost –</u> 1.13	1.51	8.1.10	Jul'10 (completed)	<ul style="list-style-type: none"> <li>Work completed</li> </ul> <p><i>Job already complete, delay analysis has been received from MECON and formalities for closure of contract are in progress</i></p>	
68.	Sewage Treatment Plant (2 nos.)	P.K. Thakur & Voltas Ltd.	5.09 (nil) 5.09 <b>5.02</b> <u>Gross Cost –</u> 5.2	3.35	15.2.10	Feb'11 (Dec'2020)	<p><u>STP-1</u> (capacity: 140 m3/hr) Dry trial in progress. To be commissioned</p> <p><u>STP-2</u> (capacity 7.5 m3/hr):</p> <p><b>Present Status</b></p> <ul style="list-style-type: none"> <li>➤ Major civil jobs of STP-1 completed</li> <li>➤ 95% Equipment Procured</li> </ul>	

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP
							<ul style="list-style-type: none"> <li>➤ 90% Equipment Installed and aligned MCC panel charged Electrical connections to the equipment in progress</li> <li>➤ For STP-2, job was completed partially at the location of Damodar Yard. But site was abandoned due to rise of Ground Water Table since 2013</li> </ul>	
69.	Miscellaneous Service Buildings 5 Buildings - i) Diesel Loco Shed Extension, ii) SMS Express Lab, iii) Area Repair Shop, iv) Earth Moving Equipment (EME) Shop Extension and v) Central Stores.	Trans Tech Turnkey (P) Ltd.	(33.93+3.69 (rft. steel) + 8.58 (strl. steel)) (nil)  46.26 <b>45.77</b>  <u>Gross Cost –</u> 48.43	41.50	26.3.10	Mar'11 <b>(Mar'19)</b>	<p><u>Diesel Loco Shed Extension</u> – Balance –construction of one track pit (total 5 nos.) <u>SMS Express Lab</u> – Handed over to Works. <u>Area Repair Shop</u> – Handed over to Works. Balance – supply of 100kV transformer and Punch points. <u>EME Shop Extension</u> – Handed over to Works. Balance commissioning of Effluent treatment plant. Trial run to be done. <u>Central Stores</u> - Handed over to Works. Balance works - Supply &amp; erection of Lighting Transformer, Air Compressor. <b>PAC issued on 18.3.19 with date of completion 08.03.2019 along with punch list for all five buildings.</b> <b>Buildings are partly in use by user departments, Progress review meeting with party &amp; MECON was conducted on 25.02.2020 &amp; 02.03.2020 and each activity was discussed in detail to achieve the targets.</b> <b>Party has supplied 2 nos. Transformers.</b> <b>They have appointed new site in charge and new subcontractor to complete the balance punch points. Progress is slow.</b></p>	
70.	Construction of Waste Pit	Friends Constr. Co. & Baba Constr.	1.24 1.24 <b>1.18</b> <u>Gross Cost –</u> 1.24	1.14	1.4.10	Jan'11 <b>(Dec'14)</b>	<ul style="list-style-type: none"> <li>• 2.3t HDPE (High Density Polyethylene) pipes erected.</li> <li>• PAC issued on 27.12.2014.</li> <li>• Job completed.</li> <li>• Commissioning certificate issued</li> <li>• PG &amp; FAC is balance.</li> </ul>	
71.	Storm Water Drainage  <b>Arbitration proceedings are in progress and contract will be closed after settlement of dispute.</b>	Trans Tech Turnkey (P) Ltd.	32.03+9.62 (rft steel)  41.65 <b>41.65</b> <u>Gross Cost –</u> 43.03	2.51	1.6.10	Apr'11 (-)	<ul style="list-style-type: none"> <li>• The work could not progress due to non-availability of clear work fronts, underground interferences and revision of drawings due to interface problems with other packages.</li> <li>• Only 3.24 km length of drain work could be completed till date out of total scope of about 40.00 km.</li> <li>• The contractor suspended the work since 30.06.2012 and refused to seek time extension stating that it would be difficult for them to continue work with uncertainties about release of clear work fronts unless escalation in their rates is considered by ISP.</li> </ul> <p><i>Overall job progress 3.45%</i> <b>Balance work has been re-tendered and order placed.</b></p>	
72	Sewage Network  <b>Arbitration proceedings are in progress and contract will be closed after settlement of dispute.</b>	Spacotech Eqpt. Strl Pvt Ltd and Times Enterprises, Mumbai	6.26  6.26 <b>6.26</b> <u>Gross Cost -</u> 6.26	0.07	7.4.10	Jan'11 (-)	<ul style="list-style-type: none"> <li>• Only route survey, General Arrangement and manhole drawings completed.</li> <li>• Contractor repeatedly failed to extend validity of security deposit BG. No action taken for procurement of pipes and construction of manholes.</li> <li>• A commercial notice was issued on 16.03.2011 and on the recommendation of MECON short closure of the contract was approved by competent authority on 28.10.2011.</li> </ul> <p><b>Balance work has been re-tendered and order placed.</b></p> <p><b>Under Arbitration, details provided separately. (Party's Claim Rs.2.5 cr., ISP claim Rs.6.22 cr.)</b></p>	

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP
73	Road Network with Drain <b>ISSUES</b> ➤ Party has indicated that they are not wanting to continue the work <b>Arbitration proceedings are in progress and contract will be closed after settlement of dispute.</b>	TCIL, New Delhi	28.42 + 0.25 cost of rft. Steel  28.67 <b>28.67</b> <u>Gross Cost –</u> 28.67	5.41	20.10.09	Oct'10 (-)	Overall job progress 16% <b>Balance work has been re-tendered and order placed.</b>	
74	Balance Road Work (including surface topping), Storm Water Drain and Sewerage Network 25 km of road (4 Lane – 1.507 km. 2 Lane – 17.716 km. 1 Lane – 5.472 km.) Plant Sewerage Network – 6 km with 200 manholes	Tantia Constr. Ltd., Kolkata	77.01 (nil)  <u>Gross Cost –</u> 77.01	33.41	27.6.13	Jan'15 (-)	<ul style="list-style-type: none"> <li>Road work - ~22/ 25 km of granular sub-base completed - ~18/ 25 km of Wet Mix Macadam</li> <li>RCC Drains - ~27/ 40 km completed</li> </ul> <p>Bituminous work (black topping) has started on 20.10.2014, 14/ 28km completed. Sewerage Network work has started from Apr'16. Construction of manholes is in progress. Due to non-availability of river sand, work has been affected since Oct'16. In Mar'17, sand was only intermittently available. <b>Due to poor Progress of work RPN was issued to the Contractor on 22.1.18.</b> <b>Termination Notice was issued to the party on 19.2.18.</b> <b>For balance work, order has been placed on M/s HN constructions.</b></p> <p><b>Under Arbitration, details provided separately.</b> <b>(Party's Claim Rs.39. cr., ISP's claim Rs.24.93 cr.)</b></p>	
	Balance Road, Storm Water Drain and Sewerage Work	HN Constructions Pvt. Ltd	Gross cost 50.42	13.66	6.7.18	May'19 (Dec'2020)	<ul style="list-style-type: none"> <li>Party has mobilised in all the three areas of Road, Drain &amp; Sewerage Network. Work is in progress in the available fronts.</li> </ul> <p>Major issues:</p> <ol style="list-style-type: none"> <li>Non-bituminous road Non-availability of fronts for road and drain at (approx 2 km ) Rd No.14, part of 1, 44, 35, 43 and 47 (Backside of BF, PBS upto Sinter Plant and Front of LDGP).</li> <li>Non-availability of fronts for drain at Rd No. 4 (FSNL yard)</li> <li>Hindrances in DI pipe laying at New Town</li> </ol> <p>Balance work</p> <ul style="list-style-type: none"> <li>3.5 km of non bituminous road</li> <li>4.5 km of DBM on road</li> <li>Total Bituminous Concrete</li> <li>Approx 3.5 km of Drains</li> </ul>	
75.	Sewage Pumping Station	Spacetech Eqpt. Strl Pvt Ltd and Times Enterprises, Mumbai	2.66  2.66 <b>2.63</b> <u>Gross Cost –</u> 2.66	-	25.6.10	Mar'11 (-)	<ul style="list-style-type: none"> <li>Basic &amp; Detail engineering not completed.</li> <li>A commercial notice was issued on 16.03.2011 and on the recommendation of MECON short closure of the contract was approved by competent authority on 27.10.2011.</li> </ul> <p><b>Under Arbitration, details provided separately.</b> <b>(Party's Claim Rs.1.1 cr., ISP's claim Rs.3.25 cr.)</b></p>	
	Sewage Pumping Station (re-tendered)	BMK Enterprises, Burnpur	2.41 (nil)		7.11.14	Sep'15 (Nov'20)	All civil and equipment erection has been completed. 5 nos. of Pumps installed. Trial run without load was conducted and PAC certificate with punch	

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP
			Gross Cost – 2.60	1.82			points was issued on 20.11.2019. Almost all the punch points have been liquidated. <b>Date of completion: 19.10.2019. Commissioning shall be done after connection of Sewage Network package.</b>	
76.	Area Lighting High mast Tower 30, Single arm pole- 36, Double arm pole- 79, Feeder pillars- 20, Watch Tower 35, Boundary wall lighting 608 numbers lighting pole	Electrical Manufacturing Co. Ltd.	5.19 5.58 <b>5.71</b> Gross Cost – 6.18	4.00	10.1.09	Jun'10 (-)	Due to repeated failure of the Contractor to execute the job, it was decided to short close the package. Package has been short closed	
	Balance Road, Area & Security Lighting  Change order issued: i) On 27.6.16 for additional work – increase of contract price – ~Rs.0.35 cr.(LCNC)	Eureka Contractor Pvt. Ltd., Burnpur	1.51 (nil) Gross Cost – 1.67	1.35	8.8.14	Mar'16 (Mar'19)	Completed.	
77.	Green Belt Development (for 15Ha)	TK Mandal	1.10 (nil) 1.10 <b>1.10</b> Gross Cost – 1.10	0.62	28.1.09	Aug'12 (Jun'15)	10 Ha complete in all respect. 5 Ha Plantation work completed and the work related to plantation maintenance for two years are remaining. Balance is RA bill, Final Bill, PAC and FAC.	
78.	Fly-over (from tunnel gate side to inside of plant)	Allied Infrastructure & Projects Pvt. Ltd., Kolkata	19.64 (nil) Gross Cost – 20.62	10.5374	14.4.14	Apr'16 (-----)	<ul style="list-style-type: none"> <li>LOA issued on 15.3.14, Contract signed on 23.4.14</li> <li><b>Facilities:</b></li> <li>Construction of Flyover in lieu of Level Crossing for hassle free movement to works.</li> <li><b>Present Status:</b> <b>ISP Portion</b> <ul style="list-style-type: none"> <li>- Pile (10/10 nos. of 1000 F) 100%,</li> <li>- Pile Cap/ Pier /Pier Cap (9/10 nos.), 90%</li> <li>- Casting RCC Girders (39/39 nos.)100%,</li> <li>- RCC Girders Erection (17/ 39 nos.) 44%,</li> <li>- Supply of Bearing (34/ 86 nos.)40%, Final erection and grouting of bearing (34 nos) completed</li> <li>- RE (Reinforced Earth) Wall Panels Casting (300/415 nos.) 72%</li> <li>- Deck slab 1/10 (10%) erected.</li> </ul> </li> <li>Revised GA Drg. submitted to Railway for approval on 16.11.2019.</li> <li>RPN served to party on 05.12.19. Party failed in RPN. Party has gone to Commercial court for this Contract. Tender Enquiry floated on 15.05.2020 with TOD 05.06.2020. As no bid received, TOD extended upto 07.07.2020. Single bid of M/s Bridge &amp; Roof received, however not eligible. To be retendered with revised eligibility criteria. Completion time for balance work is 18 months.</li> </ul>	
							<ul style="list-style-type: none"> <li><b>Railway Portion</b></li> <li>Award of work for Railway portion done. LOA issued on 02.03.2018 by SER. Pile, Pile cap, Pier &amp; pier cap (2/2 nos.) completed. Girder supply (5nos. of 30 m length) supplied. Preparation of erection in progress.</li> </ul>	

SL. No.	Package	Party	Cost in Rs Cr Net of CENVAT (FE)	Expenditure upto Sep'2020 (Rs. Crore)	Eff. Date of Contract	Contractual Schedule (Likely/Actual)	Status	ISP
							<ul style="list-style-type: none"> <li>• <b>Major balance jobs:</b> CISF building, Boundary wall, RE Wall Panel erection, protection / Re-routing of 900 dia. pipeline, Superstructure jobs (above pier cap), Road work (approx 550 m).</li> <li>• <b>Help Required:</b> Shifting of Coke, Lime fouling in alignment of road inside works in the back shunt area</li> </ul>	
79	Central Workshop (Size ~66m x 120m)	Subir Engg. Works Pvt. Ltd.	13.67 (nil)  <u>Gross Cost –</u> 13.71	17.52	21.11.11	Jul'12 <b>(Feb'17)</b>	<ul style="list-style-type: none"> <li>• Offices and all amenities made ready. Permanent Power supply given on 9.2.17. PAC issued on 20.2.17.</li> <li>• Load test and 3<sup>rd</sup> party inspection completed for – <ul style="list-style-type: none"> <li>- 2x30/5 t EOT cranes.</li> <li>- 1x50 t EOT crane</li> <li>- 1x15t EOT crane</li> <li>- 20t gantry crane</li> <li>- 5t under slung crane</li> <li>- 30 t Transfer Car</li> </ul> </li> <li>• 6 New machines to be installed –4 nos. ready. CNC Horizontal &amp; Vertical Milling machine is under installation (drive controller is under repair). Plano Milling m/c to be procured.</li> <li>• 10 machines from the old plant have been shifted. All 10 machines are ready.</li> <li>• <b>Commissioning certificate issued on 7.10.2017.</b></li> </ul>	
80	Refractory Storage Shed (Size ~96m x 36m)	Metal Engg. & Treatment Co. Pvt. Ltd.	13.824 (nil)  <u>Gross Cost –</u> 14.25	9.80	24.12.16	Sep'17 (Dec'2020)	<p><u>Shed 96 x 18 m x 2 bays and 100 sq m open yard</u> Balance work – Electrical work, 50 % flooring work (outside) and finishing/ painting work. 5t EOT crane - erection completed, testing to be completed, Rolling shutter to be supplied, control cables supply completed</p> <p><u>Office Bldg. (approx 25 x 15 m - 3 storeys)</u> Balance work – Electrical work (cabling completed), finishing/ painting work, drains and roads.</p>	

## SSP – Expansion of Salem Steel Plant

1. Final Approval : 05-Sep-2007 / 29-Jan-2008  
(In-principle Approval –28-June-2006)
2. **Cost** (in crore):
  - a. Indicative Cost (Jul'06) : Rs.1,393 crore (Net of Cenvat benefit of Rs.160 cr.)  
(FE: Rs.414.59 cr.)
  - b. Approved Cost (Sep'07) : Rs.1,780 crore (Net of Cenvat benefit of Rs.224.22 cr.)  
(FE:Rs.480 cr.)
  - c. Approved Cost (Jan'08) : Rs.1,902 crore (Net of Cenvat benefit of Rs.236 cr.)  
(FE: Rs.606 cr.)
  - d. Revised Cost Estimate (Aug'19) : Rs.2370.76 crore (Net of CENVAT/ITC of Rs.81.86 crore)  
(FE: Rs.689.53 crore)
  - e. **Expenditure (Till Sep-2020) : Rs. 2377.75 Crores (Gross)**
3. **Approved Schedule** : March-2010  
Actual Completion : Sep-2010 (Except 20-Hi Sendzimir Mill No: 3)  
**For 20-Hi Sendzimir Mill (Z-Mill-3)**  
**Approved Schedule** : Jan-2016  
Actual completion : **March-2016**
4. **Production (in MTPA)**

Capacity	Before Expansion (Base Case)	After Expansion	Production During 2014-15	Production During 2015-16	Production During 2016-17	Production During 2017-18	Production During 2018-19	Production During 2019-20	Production During 2020-21 (up to Sep-2020)
Crude Steel	-	1,80,000	1,24,874	1,19,671	1,07,511	96,532	1,16,775	1,06,521	36,636
Hot Rolled Coils	1,86,000	3,64,080	3,57,904	3,42,924	3,70,217	2,07,113	2,87,094	2,46,649	1,11,077
Cold Rolled Stainless Steel	65,000	1,46,028	63,920	69,729	70,388	62,726	62,097	60,488	17,978
HRAP (No.1)	1,10,000	1,93,144	67,213	47,176	38,498	21,651	36,392	25,732	11,142
Saleable Steel	1,75,000	3,40,000	360,399 (SS-131,986) (CS-228,413)	3,38,571 (SS-1,17,890) (CS-2,20,681)	3,66,925 (SS-1,10,495) (CS-2,56,430)	1,96,667 (SS-85,447) (CS-1,11,220)	2,76,899 (SS-98,659) (CS-1,78,240)	2,25,891 (SS-86,559) (CS-1,39,332)	1,04,836 (SS-29,423) (CS-75,413)

(Tonnes Per Year)

### Saleable Steel Product mix as per DFR

Products Grade	Quantity (Mtpa) (HRAP)	Quantity (Mtpa) (CRSS)
SS Low Nickel (SSLN) 1	60388	43632
AISI 409 M	14000	3668
AISI 304	118756	85480
AISI 430	--	13248
<b>TOTAL</b>	<b>193144</b>	<b>146028</b>

5. **Facilities**
  - Steel Melting Shop  
Electric Arc Furnace (55T); AOD Converter (60T); Ladle furnace (60T); Single Strand Slab Caster
  - Hot Rolling Mill  
Roll Grinder
  - Cold Rolling Mill Complex  
Annealing and Pickling line; Coil Preparation Line; 20-high Sendzimir Mill; Skin Pass Mill; Tension Leveling Line; Slitting Line; Mixed Acid Recovery System; Rotary Polisher
6. **Present Status**
  - M/s MN Dastur & Co. was appointed as Consultant-cum-Project Manager in Dec-2006.
  - The Expansion project was carried out through 21 main packages.
  - Hon'ble, then Prime Minister, Dr. Manmohan Singh, laid the foundation stone for expansion plan of SSP at Salem on 05.09.2008.
  - As against the approved completion schedule of March-2010, Expansion of SSP has been completed by Sep-2010 [except 20-Hi Sendzimir Mill-(Z Mill-3)].
  - Z- Mill-3 was inaugurated by Hon'ble, Minister of State for Steel on 22.09.2016 and Z-Mill-3 was commissioned on 15.10.2017.
  - **20-Hi Sendzimir Mill (Z Mill-3):**
    - a. Mill Housing was damaged in a road accident on way to Salem in May-2010 and implementation of the package was interrupted. After several attempts by SSP to resolve the matter with the Consortium of M/s Waterbury Farrel, Canada (**M/s WF**) & M/s Shirram EPC, Chennai (**M/s SEPC**) had failed, SSP sent the Final Termination Notice to them on 09.10.2012 and balance work for this package has been taken-up at their Risk & Cost.
    - b. Global tender was issued in October-2013 for the balance jobs of Z Mill-3. Since the price obtained was very much higher than the estimate, the package was retendered in April-2014 by dividing into (a) Electrical package, (b) Mechanical package and (c) Erection package.
    - c. Proposal was approved by the Empowered Committee (EC) on 19.12.2014 at an overall cost of Rs.53.49 crore (net of Cenvat credit of Rs. 6.65 crore) and implementation schedule of 12 months from the effective date of contract.

- d. Since the price obtained for Mechanical Package was much higher, approval was given for taking up the same by retendering again after further sub-division of the package. Accordingly, the Mechanical package was taken up and orders were placed for Repair of Mill housing and for required mechanical items.
- e. Hot Trial run was successfully done on 01.03.2016 with rolling of one coil of 430 grade from 1.60mm to 1.40 mm and Z-Mill-3 was commissioned on 15.10.2017.
- f. Performance Guarantee Test of Z-Mill-3 was successfully completed on 03.11.2018 and PG Test certificate issued.

**7. Status of Court Cases, Conciliation & Arbitration**

M/s SEPC had filed a petition in Madras High Court on 07.11.2012 for grant of injunctions restraining SAIL/SSP from proceeding ahead with the notice inviting EOI, invoking their Performance Bank Guarantee (PBG), return of their tools & tackles and direction to SAIL to furnish security for Rs. 5.27 crore. Counter petition was filed by SSP on 17.02.2013. High Court, on 13.06.2013, dismissed the petition filed by SEPC and on 11.10.2013, passed the judgment in favor of SAIL/SSP. In compliance to Court orders, M/s SEPC deposited the PBG amount of Rs. 0.84 crore on 28.10.2013 and tools & tackles were returned by SAIL/ SSP to M/s SEPC.

The PBG of WF amounting to Rs. 4.48 crore was en-cashed on 02.01.2013 and Petition was filed by M/s WF on 04.01.2013 in the court of Addl. District Judge, Salem for grant of injunctions restraining SSP from completion of project through third party & interfering with the performance of the contract. The counter petition was filed by SAIL/SSP on 09.02.2013. The Hon'ble Court, on 13.08.2013 dismissed the case filed by M/s WF. An appeal petition was filed on 10.01.2014 in Hon'ble Chennai High Court by M/s WF against Hon'ble Salem District Court's order.

In parallel, in Feb-2013, M/s SEPC & M/s WF had requested M/s SCOPE Forum for conciliation & arbitration. SAIL had sent its nomination of Conciliator to M/s SCOPE Forum on 06.08.2013 and M/s SEPC had sent their nomination on 10.08.2013. M/s SCOPE Forum had asked SAIL/ SSP to name an International Conciliator except from India and Canada. In Sep-2014, M/s SCOPE Forum had suggested name of a neutral Conciliator/ Arbitrator and had sought acceptance of their nomination / charges from both the parties. Since SAIL couldn't agree upon the fee of Conciliator, process of conciliation was dropped and it was decided to go for Arbitration.

SAIL had submitted the request for Arbitration at **International Court of Arbitration (ICA) of International Chamber of Commerce (ICC), Paris** on 08.10.2015 and pursuant to that, an acknowledgement letter had been received from ICC-ICA on 09.10.2015, confirming that commencement of Arbitration from 08.10.2015. (ICC case No: 21382/CYK). As advised by SAIL-Corporate Law on 07.05.2016, SAIL/SSP had submitted Statement of Claim and subsequently, Supplementary Statement of Claim was filed by SAIL/SSP on 12.06.2017 in **Arbitration Tribunal**.

After several hearings and examination & cross examination of witnesses by Arbitration Tribunal, submission of final written documents was completed.

The matter was argued at length till October-2018 and awarded by **ICA on 28-February-2019 in favour of SAIL / SSP**.

**The following are gist of the Award;**

- i. M/s WF (First Respondent) and M/s SEPC (second respondent) shall jointly and severally pay Rs.19.52 Crores towards Claim of Risk Purchase.
  - ii. Rs. 4,01,73,764/- as Pre-Award Simple Interest at the rate of 12% per annum from 12.06.2017 (i.e Date of Supplementary Statement claim filed by SAIL/SSP) till date (Award date i.e.28.02.2019).
  - iii. Post Award interest at the rate of 12% on Rs.23,53,73,764/- (i.e. Rs.19,52,00,000 + Rs. 4,01,73,764) from the date of the Award till date of payment.
  - iv. Cost of Arbitration to an Extent of 75% of the total Arbitral Costs incurred by SAIL/SSP. [i.e. USD 1,20,000 (ICC Fee) + Rs. 88,24,463/- (Legal fee and expenses) + USD 5,660 (costs towards Transcription services as arranged by SAIL/SSP)].
- Consequent upon the Award of Arbitration Tribunal, M/s Waterbury Farrel (**M/s WF**) vide notice dated 22.05.2019, had informed to appeal against the Award. Then, M/s WF has filed an application in the court of Principal District Judge, Salem on 10.06.2019 and hearings were held on 08.07.2019, 26.07.2019 and 09.09.2019 at Salem.
  - SSP filed the counter on 16.10.2019 at Salem Court and hearings were held on 15<sup>th</sup>&20<sup>th</sup>-Nov-2019, 05.12.2019, 10.01.2020, 04.02.2020, 27.02.2020 and adjourned to 30.03.2020.
  - In the meanwhile, Waterbury Farrel had filed the counter to SSP's petition challenging the Jurisdiction of the Court. This counter was filed in the Court office.
  - Due to Covid-19 scenario, court adjourned to 10.09.2020 and SAIL/SSP is file rejoinder to the petition.

**Package-wise Details for Balance works ordered under Z-Mill -3 against RPN**

Sl. No	Package Name	Contractor Name	Cost in Rs. Net of Cenvat (FE)	Expenditure up to Sep-2020 (Rs. Crores)	Status
1.	Electrical & Automation Package	M/s ABB India Limited, Bangalore	30.34 Crores. (Net of Cenvat credit of Rs.2.88 Crores) (Nil)	29.59	<ul style="list-style-type: none"> <li>• In Sep-2020, 287 Ton production in Z-Mill-3 and</li> <li>• Total 62,588 Tonnes rolled from March-2016 to Sep-2020.</li> <li>• After completing trial run tests on 01.03.2016, Z-Mill-3 was commissioned on 15.10.2017.</li> <li>• Performance Guarantee Test of Z-Mill-3 was successfully completed on 03.11.2018 and PG Test certificate issued.</li> </ul>
2.	Mechanical Package	Various	20.50 Crores. (Nil)	19.81	
3.	Erection Package	M/s Mesuka Engineering Company Pvt. Ltd., Navi Mumbai.	2.65 Crores. (Net of Cenvat credit of 33.11 Lakhs) (Nil)	2.78	

## RMD - Expansion of Mines

1. Cost break-up (June'09)					Rs. Cr
Sl. No.	Mine	Mine expansion	Beneficiation	Infrastructure	Total
1	Bolani Iron Ore Mines	255	600	236	1091
2	Kiriburu Iron Ore Mines	142	729	69	940
3	Meghahatuburu Iron Ore Mines	172	688	57	917
4	Barsua Iron Ore Mines	133	694	11	838
5	Gua Iron Ore Mines	460	1980 (with pellet plant)	438	2878
	<b>RMD Total</b>				<b>6,664</b>
6	Rowghat Iron Ore Mines				3,600
	<b>Total</b>				<b>10,264</b>

### 2. Facilities

- **Capacity Expansion, Beneficiation facilities at existing Mines**

- i) Kiriburu Iron ore Mines from 4.25 Mtpa to 5.5. Mtpa
- ii) Meghahatuburu Iron ore Mines from 4.3 Mtpa to 6.5 Mtpa
- iii) Bolani Iron ore Mines from 4.1 Mtpa to 10 Mtpa
- iv) Gua Iron ore Mines from 2.4 Mtpa to 10 Mtpa; Beneficiation Plant for 12.5 Mtpa throughput; 4 Mtpa Pellet Plant
- v) Beneficiation Plant at Bolani Iron ore Mines for 6.53 Mtpa throughput
- vi) Kuteshwar Limestone Mines from 1.1 Mtpa to 2 Mtpa

- **Utilization of Low Grade Fines/Slimes available at Mines**

- i) Installation of 0.6 Mtpa throughput capacity Slime Beneficiation Plant at Kiriburu Iron ore Mines
- ii) Installation of Slime Beneficiation Plant at Barsua Iron ore Mines

### 3. Present Status of Expansion Projects

- **Enhancement of Loading Capacity at Bolani Iron Ore Mines :**

- Out of two lines (LC-3 and LC-4), one line (LC-3) completed in June'12 and stabilized in Sept.'13 for full rake loading. However, due to accident in Reclaimer in Nov'13, full rake loading through this line was not being done. Full rake loading through LC-3 is being done on Line no. 6 since Jan '17.
- Risk Purchase Notice (RPN) issued on 14.08.2014 to M/s Tecpro due to poor performance. Balance jobs (under RPN) are being executed through five (05) packages which have been further sub-divided into 24 sub-packages. 19 packages have been completed, 02 packages are under execution (Miscellaneous Electrical works - 2 C1, Dust Suppression system - 2B 4), 03 are yet to be tendered (Training, As-built drawing, Construction of LC4).
- Alternate scheme in place of LC4 has been worked out in consultation with CET. The project is proposed to be executed through 04 packages on turnkey basis. i.e Package-1: Geotechnical investigation & area survey work for the loading area (Turnkey); Package-2 : Installation of Rapid Loading System (Turnkey); Package-3 : Extension of line no-7 to accommodate full rake (To be executed by BOM, RMD); Package-4 : Slope Retention on D-area road from chainage 648 m to chainage 1068 m. Proposal for RLS processed by RMD for Stage I approval. COD meeting held on 13.12.2019. The on-going project is to be closed before initiating the proposal for RLS. Closure is to be initiated by RMD- Projects.

- **Under Kiriburu Expansion project, Expansion facilities completed.**

- **Under Meghahatuburu Expansion Project :**

- Crushing section completed in Feb'13.
- Augmentation of Power Supply completed in July'13. Final Acceptance Certificate (FAC) issued to M/s Sterling & Wilson Limited.
- Upgradation of Loading system completed in May'14.
- Erection of Wagon Loader completed in Nov'14.



- All 03 nos. Classifiers have been erected. No load test for all Classifiers completed in Sept'14.
- No Load & Load Trials of Scalping Screen completed.
- Risk Purchase Notice issued to M/s Tecpro Systems Limited on 16.08.14. Balance jobs (under RPN) are being executed through two (02) packages:-
  - **RPN Pkg 01 – Balance works of Main package excluding Bucket Wheel Reclaimer:** Contract signed with M/s HSCL on 05.12.15. Work in progress.
  - **RPN Pkg 02 – Balance works of Bucket Wheel Reclaimer:** Contract signed with M/s Lepton Pvt. on 16.10.2017. Work completed.
- **Under Expansion of Bolani Iron Ore Mines :**
  - Modification of Dumping Platform completed.
  - All six nos. (03 sets) of Classifiers installed. Four Classifiers (DSC-3, 4, 5 & 6) have been commissioned and are under operation.
  - Erection of Stacker & Bucket wheel Reclaimer completed and put into operation on 25.06.2015.
  - Plant shutdown was taken for 3 days, from 05-07.01.2015, wherein Belt Changing (around 1600m), Non Drive pulley changing (16 nos) and Scalping Screen was replaced.
  - 02 Nos Scalping Screen commissioned on 08.01.2015.
  - Erection of 02 Nos. Tertiary Screen and 03 Nos. Recirculating Screen completed.
  - Erection of 02 Nos. of Tertiary Cone Crusher completed.
  - Shutdown taken from 11-28.05.2015 for Augmentation of capacity of Crushing plant & Washing plant conveying system (1200 tph to 1800 tph). Plant handed over to operations on 29.05.2015 after completion of jobs.
  - RPN issued to M/s Technofab on 22.02.2017 for the package of Installation / Upgradation of Conveyors and Crushing / Screening building (2E). Party was given 21 days time to respond. Reply alongwith schedule received on 29.03.2017. Reply of SAIL sent to the party on 26.04.2017. Bank Guarantee of M/s Technofab of Rs. 2.04 Crores encashed on 03.04.2017. Balance job is being undertaken through RPN and has been divided in following 4 sub-packages.
- **Expansion of Gua Iron Ore Mines - Crushing, Beneficiation & Pellet Plant:** LOA issued on 04.04.2014. Contract Agreement signed on 02.04.2015 with effective date of contract of 03.05.2014 and contractual schedule of 40 months. Joint delay analysis made by RMD and L&T on 02.05.2015, wherein it was assessed that 7 months delay during May'14 to Apr'15 is attributable to SAIL / RMD. Accordingly vide letter dated 01.09.2017, addressed to L&T, RMD extended Contract period by 7 months i.e upto April'18 which was further extended upto Oct'18. No further extension has been granted. M/s L&T has not agreed for considering zero date from the date of obtaining Stage II FC. 3 LCs opened for payment in Foreign currency have been closed. BGs given by the consortium lapsed on 5.12.2018 and 31.03.2019 respectively and not renewed further.
- Discussions held with MECON (consultant) and Law for deciding future course of action. MECON opined to terminate the contract and go for commercial settlement. Opinion of RMD as well as Corporate law also in the same line. Matter was put up to COD on Raw Materials for further deliberation. Contract cancelled on 05.08.2019. SAIL Board informed on 09.08.2019.
- Re-tendering will be done after revisiting the requirement and technological changes & statutory provisions in the intervening period. Assignment has been given to CET for preparing the EOI documents to find probable bidders and their requirements for installation of Beneficiation & Pellet plant on BOO basis. CET shall also re-examine all the enabling / linked packages for 10 Mtpa Expansion project. These packages will be done on EPC basis. Information /document prepared by MECON shared with CET for review of linked/enabling packages.
- Scheme revisited by RMD & CET and has been finalised as under:
  - 12.5 MTPA Crushing and Beneficiation facilities
  - 2 MTPA Pellet Plant (capacity of Pellet Plant to be ascertained after completion of Test results). Sample collection is under process.
- EOI floated for Beneficiation and Pellet Plants on BOO basis. Poor response received. Now, Assignment has been given to CET on 20.03.2020 to explore MDO option for Mine Development and Expansion along with Beneficiation and Pellet Plant.
- **Sample Testing:** L&T submitted an interim report on sample test work in Jan '16. Several meetings held between RMD, MECON, L&T / METSO as the test results did not conform to the output parameters mentioned in the contract. In the meeting held on 07.06.2016 between RMD, MECON, L&T and Metso, it was mutually agreed that additional sample is required to carry out test work for Lump & Fines Jig Streams. Sample sent to SGS and NMDC on 23.07.2016 for analysis

and report received on 22.09.2016. However, as the Test results were found to be in variance from Contract Technical Specification, it was decided to send further samples for testing and the same was sent to M/s SGS on 29.09.2016 and report received by RMD on 19.10.16. The same was discussed between RMD and MECON on 04-05.11.16 and it was decided to send samples to RDCIS for testing. Samples sent to RDCIS on 30.11.16 and report submitted by RDCIS on 14.12.16. M/s L&T / METSO were requested by RMD on 22.12.16 to lift Lump (10-40 mm) and Fines (-10 mm) samples for further testing. 25 Tons of Iron ore samples handed over to L&T / Metso for testing at NMDC, Hyderabad and the same has reached NMDC, Hyderabad on 21.01.17. A team of 3 executives from MECON, Gua and P&D, RSP visited NMDC, Hyderabad on 02.02.2017 for discussion of Sampling and Test results. L&T/METSO started the test work on 03.02.2017. SAIL/ MECON witnessed Jig test on 24 -25.05.2017. Results received from NMDC in June'17. Test Work for Lump and Fines Jig have been completed and accepted. Further, L&T/METSO has sent the Jig rejects from NMDC, Hyderabad to GTK, Finland for pilot & batch scale test in Aug'17. Test work for Lump and Fines Jig have been completed and accepted. Further, L&T/Metso has sent Jig rejects from NMDC, Hyderabad to GTK Finland for pilot and batch scale tests in Aug'17. One official each from SAIL and MECON visited Finland for witnessing test works during 9-20.10.2017. Test results received. Pilot scale tests for Fines beneficiation held at GTK, Finland in Dec'17, report received. Pelletisation test done at Outotec, Germany, report received and under examination by MECON.

- General Layout Drawings of the Crushing, Beneficiation and Pellet Plant (Overall plot plan) submitted by L&T has been "Approved as Noted" by MECON on 19.01.2016.
- Appointment of Project Management Consultant:** LOA issued on M/s Essar Projects India Ltd. on 11.01.2016.
- Stage II FC for 37.66 Ha** of Jungle - Jhar land in Surface Lease area received from MoEFCC, Ranchi on 04.03.2016. Land release order and tree felling permission obtained.
- Power from JUSNL:** Contract signed with M/s JUSNL in Jul'15. NIT issued by JUSNL on 09.02.2016 with last date of bid submission as 29.02.2016. After three extensions, offer received from 04 parties on 13.04.16. Price opened on 11.06.16, M/s. A 2 Z Infra Engg. Ltd., Gurgaon was L-1 at Rs. 104.54 Cr against estimate of Rs. 93 Cr. Order placed by JUSNL on M/s A to Z Infra on 29.09.16. Amended agreement signed with JUSNL on 17.06.2016 with provision of opening of an ESCROW account and payment of 21.5% as supervision charges with progressive bills. Draft agreement for ESCROW account cleared by Corporate Finance in July'16. Agreement for ESCROW account signed between RMD and JUSNL on 27.09.16; ESCROW account opened in Bank of India, Ranchi. Work to be completed in 30 months from opening of ESCROW Account i.e. by Mar'19. Route Survey approved by JUSNL. Soil investigation completed. For substation, Survey, levelling and structural foundation completed. Major civil works except road completed; 90% equipment received; 83% equipment erected. For Transmission Line, Route alignment, survey done. Out of 278 towers, 104 have been erected & foundation completed for 124 towers. The project cannot be commissioned unless MRSS is ready. The possibility of setting up small MRSS to utilise the T/L for the time being (till the main project is commissioned) is being explored.
- **Railway Siding:** FR approved by Railways. DPR (Estimated cost: Rs. 283 Cr) submitted by RITES to SE Railway on 22.09.2015. Rs. 10 Crore deposited in two phase (Dec'2013 and Sep'2014). Out of the above, Rs. 5 Cr deposited under protest. Reply to queries raised by Railways has been submitted. DPR approved by Railways on 31.05.2016 with certain conditions (settlement of land ownership issues with Railways). Letter issued by RMD to Railways on 12.07.16 agreeing to Land Licensing pending land ownership issue to be resolved by State Govt. On 22.07.16, Railways informed that on the basis of SAIL's consent letter, Railways is in the process of taking concurrence of their Finance and approval of Railway Board for giving Railway land to SAIL on lease. Land ownership issue taken-up with DC, Chaibasa and meeting held in Dec'16. Revised Engineering Scale plan (ESP) approved by railways on 01.09.2017. Land Licensing Plan (LLP) submitted to Railways on 20.09.2017 and approved on 03.11.2017. The surface lease rights of the subject land (32.61 Ac) has been renewed in favour of SAIL/Gua Mines in Dec'17, but Railway is not agreeing and insisting on deposit of Rs. 17.97 crore as land leasing fees. DC (Singhbhum) held meeting with SAIL and Railways on 22.09.2018 and advised Railways to submit proof of their claims in 15 days, which is yet to be submitted. SAIL has submitted a letter on 31.10.2018 requesting DC (Singhbhum) for early resolution. Soil investigation completed. Packaging done by RITES and Tender Documents are under preparation at RITES. (Disputed Area - 28 Acres). Vide order dated 05.08.2019, DC, Chaibasa clarified that SAIL has a legal right on plot 291 (29.05 acres). Accordingly, a letter was given to SE Railways for permission for execution of Railway Siding on 20.08.2019. In this context, meeting was held with CPDE, SE Railways and RMD on 16.10.2019 & 22.11.2019 wherein Railways was requested to review their demand for land licensing fees. Railways reiterated to make payment.

Matter is still unresolved. Meeting held with Chief Planning & Development Engineer on 16.10.2019 and 22.11.2019 in this connection. A meeting was also held with Principal Chief Engineer, SE Railways on 17.02.2020. A meeting was held with GM, SER on 15.07.2020 and consent has been given to Railways on 21.07.2020 for :

- Payment of Land Licensing Fees for 6.8 acres of Railway Land.
- To submit an affidavit/undertaking that SAIL will pay the Land Licensing Fees for disputed area of 29.431 acre, in the event of allocation of this disputed land in favour of SER.

The proposal has been forwarded by GM (SER) to Railway Board for consideration. As required by Railway Board, a revised drawing indicating disputed and undisputed land has been submitted to Railways on 24.08.2020.

○ **Project Details:**

- ✓ Facility for 2 nos full rake loading lines with two RLS (one for Lump & Pellet and another for fines)
- ✓ 1 No full rake line for incoming materials for pellet (Lime, Bentonite etc) along with 1 line for engine escape .
- ✓ 3 lines for receipt cum despatch yard along with 1 line for engine escape.
- ✓ All associated Earth work, Civil works, OHE, S&T etc.
- ✓ Proposed to be implemented in 6 packages.
- ✓ Screening for Pkg-1 (Civil Works other than Major Bridges) has been done but clearance not given to M/s Rites for tendering due to land dispute.
- ✓ For Project Management Services (PMS), job has been assigned to M/s RITES Ltd. Bhubaneswar in 18.05.2017 for Rs.25.99 cr. RITES has formulated packages for implementation of the project in two phase..
- ✓ Execution Period : From zero date (1st Phase:12 months & 2nd phase:30 months)

–**MRSS and HT Power Distribution:** NIT issued on 25.01.2016 with TOD on 09.03.2016.1<sup>st</sup> Extension of TOD – 29.03.2016; 2nd Extension – 19.04.2016; 3<sup>rd</sup> Extension – 05.05.2016. 04 offers received (M/s Siemens, Alstom, ABB and L&T). Tender discussions completed on 20-21 Sep'16. Techno-commercial evaluation completed. TAR received from MECON on 03.06.2017. Tender cancelled in Oct'18.

- **Fees for Consultancy Services of MECON for Expansion including Installation of Beneficiation & Pelletisation facilities in various mines of SAIL- RMD:** Empowered Committee accorded the final approval for the Proposal in Oct'15 at Rs. 158.81 Crore (DPER – 30, Consultancy – 125, EIA / EMP – Rs. 3.81 Cr). Sanction Letter issued by Projects Directorate on 27.10.2015. Contract agreement signed between SAIL & MECON on 07.12.2015.

## Package-wise Details RMD Projects

### Packages under Implementation:

#### Expansion Packages

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status
1	<b>Enhancement of production capacity of Bolani Iron Ore Mines (4.10 to 10 Mtpa)</b> Total Packages : 21 Ordered : 18 Balance: Construction of Dam III of Tailing Pond, GPS based Mines Management System, CCTV based DVRMS		254.55 Gross – 275.28	178.90		Nov'13/ <b>Jun'15</b> (except Tertiary Crushing Module & Set of Conveyors from D & Panposh area )  Sept'21	Intermittent closure of Mines due to Environmental clearances during 11th Feb'12 to 2nd March'12; 10th April'12 to 1st May' 12 ; 10th Nov'12 to 27th Dec'12 has delayed the job.  Delay in obtaining Forest clearance for D & Panposh area in turn affected the start of site activities in that area. Site work was started on 18.03.2015 but subsequently stopped due to non availability of clearance.  MoEFCC vide order dated 29.04.19 granted Stage-II FC for 124.313 ha Sabik forest land under 6.9 sq. Mile lease. Stage-II FC for 465.64 Hal forest land under 6.9 Sq. Mile Lease is awaited.  MoEFCC vide order dated 06.11.19 granted Stage-II FC for 87.09 ha Sabik forest land under 5.10 Square mile lease.
	i. Modification of Dumping platform (pkg-1)	HR Constructions	4.76 Gross - 5.09	4.42	28.7.10	<b>Dec'12</b>	<b>Completed.</b> FAC payment pending. LD recovered 5%.
	Augmentation of Plant Capacity (pkg-2)						Split into 11 sub-packages.
	ii. Supply/ Modifications of Screens (pkg-2A) (Two Scalping Screens, One Dewatering Screen, One Grizzly Feeder, Three Tertiary screens and Three Recirculating screens)  <u>Issues:</u> <ul style="list-style-type: none"> <li>Erection &amp; Commissioning of balance Screens is linked to RPN Package 2E</li> </ul>	International Combustion	5.35 Gross – 5.87	4.96	30.05.11	Aug'12/ Sept'21  (Linked to Pkg-2E)	<ul style="list-style-type: none"> <li>Design &amp; Engineering completed.</li> <li>Ordering of brought out items and manufacturing completed.</li> <li>100% equipment supplied. All 10 screens supplied in Apr'13 – Nov.'13.</li> <li>1) Erection of Scalping Screens at Crushing plant (02 nos.) under PKG-2E completed on 14.08.13 &amp; Commissioned on 08.01.15 and screens are in operation. Load Test of Scalping Screen-1 done on 08.01.2015 and Scalping Screen-2 done on 26.04.2015. Put into operation in Sep'18. Part PAC issued on 21.09.2018.</li> <li>2) Tertiary and Recirculating Screens (03 Nos + 03 Nos.) at PSP : Supply of Screens by M/s ICL &amp; Erection of same by M/s TFML under PKG-2E completed on 24.02.2016. Commissioning is pending as M/s TFML stopped the site activities since 30.01.2017. Commissioning will be done under RPN PKG-2B of PKG-2E at the risk and cost of M/s TFML. Tendering for RPN PKG-2B of PKG-2E is in progress.</li> <li>3) De-Watering Screen at Washing Plant (01 No.): Supply of Screen by M/s ICL&amp; Erection of the same by M/s National Constrn. Co. (under RPN PKG-1 of PKG-2E) at the risk and cost of M/s TFML completed.</li> </ul>

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status
							<p>Trial of 1 no. Dewatering screen at Washing Plant done on 28.08.18. PAC has been issued. Commissioning is pending due to non-working of Wet circuit.</p> <p>4) Grizzly feeder at D-area (01 No.): Supply of Screen by M/s ICL completed. Installation and Commissioning will be done through RPN Package-4 of Pkg-2E at the risk and cost of M/s TFML. After obtaining statutory clearance [as per communication received from GM (E&amp;L) on 29/04/2020]. CET, Ranchi has been asked on 18.06.2020 to prepare TS for RPN Package-4 of Pkg-2E.</p>
iii.	<p>Supply and Installation of Crushers (pkg-2B) - 02 Tertiary Crushers, 01 Crusher at 600tph area, 01 Crusher at D area.</p> <p><u>Issues:</u> Erection of equipment linked to Crushing/Screening Building (pkg-2E)</p>	Sandvik Asia	<p>10.68 Gross – 11.82</p>	12.27	24.06.11	Dec'12/Sept' 21 (Linked to Pkg-2E)	<ul style="list-style-type: none"> <li>All 04 Crushers have been received at site. (Feb.'13).               <ol style="list-style-type: none"> <li>Tertiary Cone Crusher (02 Nos) at PSP : Supply of Crushers by M/s Sandvik Asia and Erection of same by M/s TFML under PKG-2E completed on 27.09.14. Commissioning is pending as M/s TFML stopped the site activities since 30.01.2017. Commissioning will be done under RPN PKG-2B of PKG-2E at the risk and cost of M/s TFML. Tendering for RPN PKG-2B of PKG-2E is in progress.</li> <li>Secondary Cone Crusher (01 No.) at Sec Crushing House near 600TPH : Supply of Crushers by M/s Sandvik Asia and Erection of same on 23.02.2020 by M/s BTL EPC Ltd (under RPN PKG-3 of PKG-2E) at the risk and cost of M/s TFML completed. Commissioning will be done after completion of balance work of Sec Crushing Building and associated Conveyors.</li> <li>Jaw Crusher (01 No.) at D-Area : Supply of Crusher by M/s Sandvik Asia completed. Installation was not done due to non-availability of statutory clearance of D &amp; panposh area. Installation and Commissioning will be done through RPN Package-4 of Pkg-2E at the risk and cost of M/s TFML. After obtaining statutory clearance [as per communication received from GM (E&amp;L) on 29/04/2020]. CET, Ranchi has been asked on 18.06.2020 to prepare TS for RPN Package-4 of Pkg-2E.</li> </ol> </li> </ul>
iv.	<p>Supply and Installation of Classifiers (pkg-2C) – 06 Classifiers</p> <p><u>Issues:</u></p> <ul style="list-style-type: none"> <li>Commissioning of DSC-1 and DSC-2, which is linked to pkg-2E</li> <li>Commissioning of remaining 02 classifiers will be done after Commissioning of Dewatering screen</li> </ul>	Hindustan Dorr-Oliver Ltd.	<p>5.32 Gross – 5.80</p>	5.00	12.11.10	Feb'12/ Feb'16	<ul style="list-style-type: none"> <li>All six nos. of Classifiers (3 sets) installed. 04 Classifiers commissioned. PAC for Screw Classifiers (DSC-1, 2, 3, 4, 5, 6) issued on 13.04.16.</li> <li>DSC-3 &amp; DSC-4 : Commissioning certificate on 10.10.13.</li> <li>DSC-5 &amp; DSC-6 : Commissioned on 15.05.2014.</li> <li>Erection work for DSC-1 &amp; DSC-2 started from 12.01.15. Trial run of DSC-2 taken on 23.06.15. Trial run of DSC-1 done on 13.01.2016.</li> <li>Load Test &amp; Commissioning of DSC-1 &amp; DSC-2 was pending due to non-installation of Dewatering Screen &amp; Extension of WFC-1 Conveyor. Installation of De-Watering Screen &amp; Extension of WFC-1 Conv. completed by M/s National Construction Co. at Washing Plant under RPN PKG-1 of 2E. Commissioning is still pending due to non-working of Wet Circuit.</li> </ul>

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status
							<ul style="list-style-type: none"> <li>• HDOL officials visited Bolani on 16.02.17 and requested to complete balance works by engaging other agency at the cost of M/s HDOL and also requested for foreclosure of the contract.</li> <li>• BG of Rs 28.5 lakhs encashed in June 18. In-Principle approval obtained on 30.10.2018 for Commercial Settlement with the party.</li> <li>• Proposal for Commercial settlement has been sent to RMD, Kolkata along with revised Committee recommendation for approval of CA on 23.10.2019.</li> <li>• Meanwhile, the Party has gone into Liquidation.</li> </ul>
v.	Dust Suppression System (Pkg-2D) – Installation of Dust suppression system at Crushing and Washing plant section  <u>Issue:</u> <ul style="list-style-type: none"> <li>• Entire front not available for execution. Work completed in available fronts.</li> <li>• Contract to be foreclosed after execution of work at available fronts.</li> <li>• Dust Suppression system at 600 tph, D and Panposh area will be tendered separately after completion of balance work in D &amp; Panposh area (RPN Pkg 04 of Main package 2E)</li> </ul>	Dust Solution System	2.05	2.10	28.01.17	<b>Jan'19</b> (for available fronts) Linked to Pkg 2E	<ul style="list-style-type: none"> <li>• LOA issued to Party on 29.12.2016.</li> <li>• Contract signed on 02.02.2017. Kick-off meeting held on 01.03.2017. Billing schedule approved in Oct'17. Site activities started on 20.11.2017.</li> <li>• 1) <b>Crushing Area:</b> Installation of Equipment, pipe lines work, Cable laying, Glanding &amp; termination (<i>Except Tertiary area</i>) completed. Testing &amp; Trial run of Equipment completed and system has been put into regular operation since 10.01.19.</li> <li>• 2) <b>Washing Area:</b> Installation of Equipment, pipe lines work, Cable laying, Glanding &amp; termination at available front (<i>Except BO-DO Project area</i>) of washing plant area completed. Testing &amp; Trial run of Equipment completed and system has been put into regular operation since 10.01.19.</li> <li>• Imparting of Training to employees completed. Formalities for handing over and taking over the Completed facilities at Crushing and Washing area completed w.e.f. 31.01.2019 without issuing Part PAC.</li> <li>• Proposal No.-BOM/PROJ/0059 Dtd 16.01.2019 for issuing part PAC, Part Commissioning Certificate has been resent to RMD, Kolkata on 06.05.2019 with clarification sought from HQ.</li> </ul>
vi.	Installation/ Upgradation of Conveyors and Crushing/Screening Building (pkg-2E) (Conveyor speed upgradation from 1200 TPH to 1800TPH)  <u>Issues:</u> <ul style="list-style-type: none"> <li>• Project work could not be taken up in D &amp; Panposh area due to non-availability of Statutory clearances.</li> <li>• To ensure sized output, civil works for Tertiary crushing and Screening building are to be expedited by the contractor.</li> <li>• Engineers Notice issued to the Contractor, M/s Techno Fab Manufacturing Ltd. for the job of</li> </ul>	Technofab Manufacturing Ltd.	95.94 Gross – 105.16	70.24	04.01.12	Jan'14/Sept' 21  Plant Augmentation jobs completed in May'15	<ul style="list-style-type: none"> <li>• Basic Engg. completed, Design Engg. in progress. 78% Equipment supply, 35% equipment erection and 39% Structural erection done.</li> <li>• 11KV lines coming in the way have been diverted. Necessary road diversion along the site of Tertiary Crushing &amp; Screening building has been completed.</li> <li>• <u>Augmentation of Main Plant:</u> <ul style="list-style-type: none"> <li>• Plant shutdown was taken for 3 days, from 05-07.01.2015. During this period, following jobs were done: <ul style="list-style-type: none"> <li>- Belt Changing : Around 1600m</li> <li>- Non Drive pulley changing : 16 nos.</li> <li>- 2 Scalping Screens replaced</li> </ul> </li> </ul> </li> <li>• Shutdown taken from 11 - 28.05.2015 for Augmentation of Plant. Augmentation jobs (Apron Feeder AF-106, AF-112, Conveyors CC-1, CC-2, PC-1, PC-2, PC-7, PC-8, WFC-1, WFC-2, WFC-3, WPC-1 &amp; WPC Tripper) were completed and put into operation for production</li> </ul>

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status
	<p>Erection &amp; Commissioning of Dewatering Screen &amp; Shifting Tail Pulley of Conveyor WFC-1 at Washing Plant on 15.12.2014.</p> <ul style="list-style-type: none"> <li>Poor resource mobilization by M/s Technofab due to financial crunch. All civil contractors have demobilised their manpower due to payment problems.</li> <li>Notice issued to M/s Technofab for improving the site activities. Some improvement has been observed but still not as per site requirement. RPN action may be initiated if further improvement is not observed.</li> <li>Meeting held on 19/03/2016 between M/s TFML and RMD to expedite completion of the package.</li> <li>Due to poor progress of work, Engineers' notice was issued to party on 14.09.16. No work since early Nov'16. RPN Notice issued on 22.02.2017.</li> </ul>						<p>from 29.05.2015.</p> <ul style="list-style-type: none"> <li>Balance work includes a set of conveyors for replacing the present road transportation from D &amp; Panposh area and Tertiary Crushing module to ensure reduction of lump size to -30 mm (Present size - 50mm +10mm). Excavation work started on 18.03.2015 and is in progress.</li> <li>Civil works for Tertiary crushing building completed, structural erection in progress. Erection of two nos. Tertiary Cone Crushers, 3 nos Tertiary Screens done.</li> <li>Civil works for Secondary screening building completed, structural erection in progress.</li> <li>Civil Sub-Contractor (Viswakarma Feeding Agency) had mobilized the man-power to start civil works on 15.02.16.</li> <li>Erection work stopped since 26.08.16 after seizure of 150T crane as per order of High Court, Calcutta due to non-payment of installments by crane owner to financier.</li> <li><u>Crushers and Conveyors in D &amp; Panposh</u> <ul style="list-style-type: none"> <li>Tree Felling completed on 29.12.2014.</li> <li>Excavation work started on 18.03.2015. Subsequently work stopped in Apr'15 due to non-availability of clearance.</li> </ul> </li> <li>Risk Purchase notice issued to M/s Technofab on 22.02.2017 for the package of Installation / Upgradation of Conveyors and Crushing / Screening Building. The party was given 21 days time to respond. Reply of party alongwith schedule received by Bolani Mines on 29.03.2017. Reply of SAIL sent to the party on 26.04.2017.</li> <li>Bank Guarantee of M/s Technofab of Rs. 2.04 Cr encashed on 03.04.2017.</li> <li>Balance work under RPN has been divided into 04 sub-packages:-</li> <li><b>Balance Works of De-Watering Screen &amp; Extension of WFC-1 Conveyor (Pkg-01)</b> – NIT issued on 26.05.2017 with TOD of 23.06.2017. Offers received from 6 parties. Techno-commercial evaluation completed in Sep'17, RA held on 26th Oct 17, M/s National Construction was L-1 at Rs. 50.83 lakh against estimate of Rs. 66.16 lakh. <b>LOA issued to M/s National Construction Company on 04.01.2018.</b> Approved civil drawings received from CET on 12.03.2018. Excavation for De-watering screens and Wet Fines Conveyor (WFC) started on 15.03.2018 and completed in Apr'18. Casting of all 05 nos. foundation for De-watering screens completed in Jun'18. Erection of Chute, Tail Pulley and Frame, and Dewatering screens completed in Jul'18. <b>Work completed and PAC issued on 29.08.18.</b> Commissioning could not be carried out due to non-working of Wet circuit. However, for payment of 2.5% retention amount towards Commissioning was released against submission of Bank Guarantee of equal value, as per provision of Contract clause no.-25.4. Proposal was sent to RMD, Kolkata for releasing 5% retention amount towards PG Test without any Bank Guarantee, as in the instant case, PG was not</li> </ul>

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							<p>applicable. Proposal was returned from RMD without approval on 19.03.19. File was again sent to HQ through GM (Mines) on 26.07.19. No approval for releasing 5% retention amount towards PG Test even with submission of Bank Guarantee as Commissioning of completed facility has not been done. Another proposal (No.- 112 Dated 29.05.2020) for releasing of 5% retention amount towards PG test &amp; releasing of Bank Guarantee to M/s National Construction Company has been forwarded to RMD,HQ for approval. The proposal was rejected and party has been intimated accordingly on 10.09.2020. as per new guideline for MSME by Govt of India due to COVID-19.</p> <ul style="list-style-type: none"> <li>• <b>Pkg 02 – Balance job of Tertiary Crushing system – TS (R=2)</b> submitted by CET to RMD on 06.09.2017 and accepted by Mines. Screening Committee meeting held on 21-22.09.2017. NIT issued on 28.09.2017 with TOD of 31.10.2017. TOD extended till 14.11.2017. 05 offers received from M/s HMTCC Engg.; Edifice Engg.; Powermax India; Indiana Conveyors; BTL EPC Ltd. TER received from CET on 27.12.2017. TC meeting held on 10.01.2018. Opinion of Corporate Law sought on 06.02.2018 on the issue of acceptance of bid of M/s Indiana Conveyors. The opinion of Law has been sent to RMD on 20.02.2018. Final TC meeting held on 03.03.2018. RA conducted on 14.05.2018, but failed. Tender committee recommended for cancellation of Tender on 25.05.2018 and Tender cancelled. <b>Balance works to be executed in 4 sub-packages as under:</b></li> <li>• <b>Pkg-2A (Balance Civil and Electrical works for ECR building):</b> Tender issued on 16.10.2018, TOD 14.11.2018 and 8 offers received viz. M/s Unistar Company; Electro-Mech Engineers; Maa Vindhyaashini &amp; Sons; VK Enterprises; Electro Steel Corporation; Roop Chand &amp; Co.; Regional Construction &amp; Co; Sai Electricals. During Techno-commercial evaluation, 03 bidders were rejected. During Technical evaluation by CET, it was observed that the quantity of Teakwood handrail (Polished) for staircase was mentioned 7900m in place of 7.9m as a typographical error, for which downward revision is 56.08 Lakh (30.56% of Initial package cost i.e.183.53 Lakh. Hence, CET has been asked to review the eligibility criteria in line with the revised cost estimate i.e from 183.53 to 127.45 (Net of ITC on GST). SC during meeting on 24.06.19 opined that since there is considerable downward revision in estimate i.e. 30.56% against original estimate, the eligibility criteria may be reviewed. Tender has been cancelled. Revised TS received from CET on 04.11.2019. NIT issued on 02.01.2020 with TOD on 31.01.2020. 06 offers received. 03 Bidders requested for Time extension, hence TOD extended up to 15/02/2020. 08 offers received. Techno-Commercial evaluation is in progress. During TC meeting on 11/16.06.2020, parties have been asked to submit the lacking documents.</li> </ul>



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							<ul style="list-style-type: none"> <li>• <b>Pkg-2B (Balance Civil, Structural and Mechanical works of Tertiary Crusher Building):</b> Tender issued on 16.10.2018, TOD 13.11.2018, extended to 01.12.2018 and 3 offers received viz. M/s Maa Vindhya Vasini, Bolani; Geetanjali Enterprises, Bokaro and Vidhividhan Engineers, Rourkela. Tender to be cancelled based on recommendations of TC meeting (held on 19 &amp; 26.2.2019). Tender cancelled after approval of Competent authority. Re-tendered with TOD on 01.10.2019. TOD extended to 25.10.2019 due to receipt of single offer. No further offers received. Case referred to Screening Committee in view of the request of prospective bidders for relaxation in Eligibility criteria. Original tender cancelled. Eligibility criteria reviewed. NIT floated on 16/01/2020; TOD on 14/02/2020. TOD was extended up to 28.02.2020, as no offers were received, further extended up to 13.03.2020. 06 offers received on 13.03.2020. Under Evaluation.</li> <li>• <b>Pkg-2C (Balance Electrical works of Tertiary Crusher Building):</b> Tender issued on 08.11.2018, TOD 07.12.2018. 11 offers received viz. M/s IEE Projects; Electro Steel Corporation; Adarsh Controls and Automation; Reliable Hi Tech; Power Max; ECS Engineering; Om Shakti; Real Time Engineering; Incotech Engineering; Devika Electrical; Sai Electricals. Techno-commercial evaluation completed. RA failed. Price discovered through Physical bid opening on 30.12.2019. L-1 offer was 97% above the estimate. TC during its meeting on 22.01.2020, decided to ask L-1 bidder to submit their BOQ along with rates, so that same can be compared with the estimate prepared by CET. TC meeting held on 03.03.2020; recommended for negotiation with L 1 bidder (M/s Electrosteel ltd. Bokaro) with approval of Competent Authority. Negotiation meeting could not be planned due to lockdown. Tender Cancelled. During discussion through VC on 30.06.2020 between CET-RMD-BOM, it has been suggested before tendering the subject case may be reviewed. Preparation of revised TS is under progress.</li> <li>• <b>Pkg-2D (Construction of Retaining wall of Tertiary Crusher Building):</b> To be tendered.</li> <li>• <b>Pkg 04 - Balance work of D &amp; Panposh Crusher &amp; Conveyor system –</b></li> </ul>
	<b>RPN Package - 3 of Pkg - 2E:</b> Balance Work for New Crusher Building & Associated Conveyors near 600 TPH Plant <ul style="list-style-type: none"> <li>• Secondary Crusher House building including installation of Cone Crusher</li> </ul>	M/s Bengal Tools Ltd.	5.58	3.60	02.08.18	Dec' 20	<ul style="list-style-type: none"> <li>• NIT issued on 07.10.2017 with TOD of 07.11.2017. TOD extended till 21.11.2017. 10 offers received - Vidhividhan Engineers; Maa Vindhyavasini; HMTCC Engg.; BTL EPC Ltd.; Hamtek technology; Graduate Agro; Indiana Conveyors; Powermax; Edifice Engg.; Geetanjali Enterprises. Final TC meeting held on 30.05.2018. RA held on 12.06.2018 and M/s BTL EPC Ltd became L-1 bidder.</li> <li>• LOA issued to M/s BTL EPC on 03.07.2018 at Rs. 5.85 Crore with a</li> </ul>

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	<p>(already supplied)</p> <ul style="list-style-type: none"> <li>Associated Conveyors, JHs, Cranes</li> <li>Related Civil, Structural &amp; Electrical works</li> </ul> <p>Issues :</p> <ul style="list-style-type: none"> <li>Party was requesting amendment in Contract due to Additional quantity in different areas even though this is a turnkey contract.</li> <li>The site work was stopped since Jul'19. Engineer's Notice was issued to the party on 25.07.2019 and it was made clear to the party that no Additional scope can be given under this contract.</li> <li>Meeting in this regard was held with MD, BTL in the office of ED (Proj), RMD where they agreed to start work without any deviation.</li> <li>Job started on 27.09.2019.</li> </ul>						<p>completion schedule of 15 months. Kick Off meeting held on 07.09.2018. LOA was issued to M/s BTL EPC Ltd. on 03.07.2018. Contract signed on 28.11.2018. Party started site activities w.e.f.18.12.18.</p> <ul style="list-style-type: none"> <li>1) Retaining Wall: Completed in all respect on 07.11.2019. 2) JH-JS - Casting of ground, 1st &amp; 2nd floor with ironite flooring, Structural &amp; Mechanical erection with painting has been completed. Sheetting is pending. 3) JH-TT-1 : Civil FDN work along with sand PIT has been completed. Casting of floor(+ 510.0Lv) done on 28.05.2020. Structural erection (35T/49T) is in progress.</li> <li>4) Conv. R-1: Erection of Drive Frame, Gear Box, H/Pulley, Input coupling has been completed. Erection of T/Pulley, Output coupling, Motor, short post, stringer, idler &amp; Conv. Belt is pending. Commissioning will be done during shutdown</li> <li>5) Conv. R-2: Civil FDN work along with VGTU Fdn, Structural erection(42/42MT) has been completed. Erection of all pulleys, short post, stringer, deck plate, Idler frame, Take-up (without C/W), Gear Box,L/S coupling has been completed. Erection of Motor, H/s Coupling, D/Chute, Conv. Belt is pending.</li> <li>6) Conv. R-3 : Casting of all civil FDNs has been completed Strl erection(7MT/21MT) is in progress</li> <li>7) Sec Crushing Building (SCB) : Casting of all civil FDNs and all floors has been completed. Erection of Surge Bin, Sec Cone crusher &amp; Belt Feerder has been completed. Structural erection (142/145.67MT) is in progress.</li> <li>8) ECR Building : a) Ground floor: Roof casting, Brick work, inside wall plastering, flooring &amp; fixing of Door-window (except shutter) has been completed. b) First Floor: Roof casting, Brick work, Plastering, fixing of steel door-windows (except aluminium door &amp; shutter) has been completed. c) 2nd Floor: Roof casting, Brick work, Parapet wall, casting of mumty roof &amp; fixing of steel door-window has been completed. Inside plastering has been completed. Outside plastering, fixing of door-window, construction outside drain, Tiles fixing, false ceiling works are in progress.</li> <li>9) Electrical Works : a) Erection of Panels (PMCC, PDB, Interface &amp; VFD Panel etc) has been completed on 14.09.2020. b) Erection of cable Tray &amp; Wiring of ground floor of ECR Bldg is in progress.</li> </ul>
	<b>RPN Package-4 of PKG 2E: Balance work of D and Pamposh area</b>						<p>1) Statutory clearance has been obtained as communication received from GM(E&amp;L) on 29.04.2020. 2) CET, Ranchi has been asked on 18.06.2020 to prepare TS for RPN PKG-4 of PKG-2E, as statutory clearance for D &amp; Panposh area has been obtained.</p>

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vii.	Power Supply package (pkg-2F)  <u>Issues :</u> <ul style="list-style-type: none"> <li>No site activities since 30.04.15. Engineers Notice issued on 18.08.2015.</li> <li>Site activities restarted by party in Jun'16 and stopped on 01.11.16 as time extension was up to 30.10.16. Time extension granted upto 30.09.2017. Further, extension granted up to 31.12.2017.</li> <li>Entire front not available for execution.</li> <li>Non-availability of Forest Clearance at D and Panposh area and agitation of local people at Tailing Pond Area.</li> <li>Contract to be foreclosed.</li> <li>Major work at clear front has been completed and party has applied for PAC.</li> <li>Balance work will be taken up separately on availability of fronts.</li> </ul>	OM Shakti Enterprise	6.98 Gross – 7.23	5.31	04.04.12	Apr'13/ -  (Except D Area, Panposh, Tailing Pond)	<ul style="list-style-type: none"> <li>Design Engg. completed.</li> <li>Retrofitting of 03 old Panels 6(spare), 16(600 TPH), 17 (D &amp; Panposh) at MRS completed. Charging of panel no. 6 completed on 14.09.13.</li> <li>Installation of 02 new panels (18 &amp; 19) at MRS &amp; One new panel at Washing Plant completed.</li> <li>Re-routing of 11 KV lines to PSP completed for the construction of sub-station for Tertiary Crushing unit. HEME Substation erected. Over head line erection from MRS to 600 TPH is under progress.</li> <li><b>Sub-station (SS-5)</b> building near 600 TPH completed. Erection of one no. HT Transformer and 4 nos. HT panels completed on 13.06.14. Testing of HT Panels, Fixing of electrical accessories completed. Pole erection for drawing power from MRS is in progress. Flooring is completed. Brick work &amp; Plastering for Plinth protection and Drain around Sub-station Bldg completed. Format for DGMS approval has been handed over to Party. Party has submitted all documents for DGMS approval. DGMS approval is awaited. Balance works completed in Nov'18 and Party has applied for PAC.</li> <li><b>Sub-station at PSP (SS-7)</b> : Sub-station Bldg &amp; Erection of electrical equipments completed. Test Charging of O/H line from MRS to SS-5, HT Panels, HT Transformer, PCC Panel &amp; various DBs has completed. Format for DGMS approval has been handed over to Party. Party has submitted all documents for DGMS approval. DGMS approval is awaited. Installation of capacitor bank completed and miscellaneous control cable termination completed in Oct'18. Balance works completed in Nov'18 and Party has applied for PAC.</li> <li>Balance work – NGR (Neutral Grounding Resistor Panel), Capacitor Bank panel, Ventilation fan and Misc. sanitation jobs.</li> <li><b>Sub-station at HEMM Shed (SS-8):</b> Erection of Pole mounted Transformer &amp; Poles to draw power from Campus store to HEMM shed completed. Drawing of 11KV Conductor completed. Muffing of erected Electric Pole and Earthing work for Transformer completed</li> <li>No work since Apr'17. Letter sent to Party on 07.08.2017 to resume the work at site. Work restarted by Party and inter-connection of Bus-bars of 04 nos Panels at MRS done on 31.08.2017 during shutdown.</li> <li>No site activities since 11.09.17. Meeting with Om Shakti was held at RMD, Kolkata on 30.10.17 and MOM signed regarding completion of balance works at clear front. Accordingly, Time extension granted to the party up to 31.03.2018.</li> <li>For SS-8, Earthing work completed in Mar'18. Test charging of Overhead line and Transformer done on 23.03.2018.</li> <li>Major work at clear front has been completed. Party has liquidated maximum defects which were enlisted during meeting on 09.02.19. All the completed facilities at MRS, Washing Plant, SS-5 at 600TPH, SS-7 at PSP, SS-8 at HEMM have been taken over from party as per provision of clause no. - 26.2 of Contract agreement.</li> <li>Contract to be foreclosed.</li> </ul>

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viii.	<p>Instrumentation and Automation with PLC system (pkg-2G) – for following: Existing Crushing &amp; Washing plant; New Tertiary Crushing &amp; Screening plant; New Crushing plant at Panposh, D Area, near existing 600 tph C&amp;S plant, New pump house at Tailing pond</p> <p><u>Issues :</u></p> <ul style="list-style-type: none"> <li>No work since 04.07.16.</li> <li>BOM wants to keep the existing Relay Logic Control System. This requires additional Control cables and alternate location for PLC / RIO Panel.</li> <li>Proposal for obtaining approval for installation of PLC / RIO Panel at alternate location keeping existing logic control panel in the existing control room, subject to financial concurrence for procurement of approx. 4000 mtr length control cable has been processed for approval in Dec'16. Clarifications sought by RMD, Kolkata have been replied by Mines on 28.01.17. Approval for cable procurement accorded by RMD, Kolkata on 14.02.2017. Cable received at site on 01.09.2017</li> <li>Entire front not available for execution.</li> <li>Agitation of local people at Tailing Pond Area.</li> </ul>	Technisys Engg	6.92 Gross – 7.75	6.16	10.04.14	Apr'15/Sept '21	<ul style="list-style-type: none"> <li>Kick-Off meeting held on 08.07.14.</li> <li>Fibre Optic Cable, Control system (Console), Wireless Communication system, PLC Panels received at site.</li> <li>Shifting of panels commenced from 12.10.2015.</li> <li>Two nos control desk shifted near to CP-1 of Crushing for installation.</li> <li>Erection group reached BOM on 01.02.16 and erection started on 09.02.2016. Erection of 10 nos Panel, 01 no. Control desk, 04 nos UPS &amp; 01 no. ISO Servo done in Feb'2016.</li> <li>Dismantling of existing Toilet inside Control room of Karo Pump house to accommodate Control desk completed in Jul'16.</li> <li>Dismantling of MCC Panel for Conv. WFC-2 at JH-WJ-1 done. Shifting and handing over of MCC Panel for Conv. WFC-2 to Electrical store done.</li> <li>No work since Jul'16 as additional requirement of control cable for commissioning of new PLC system keeping the existing Relay Logic Control is to be procured.</li> <li>Open tender floated for procurement of 4000 m Control Cable on 20.03.2017 with TOD of 20.04.17. As only 2 offers were received, TOD was extended to 18.05.2017. Five offers received. Order placed on MEM Industries on 21.06.2017; Cable received at site on 01.09.2017. M/s Technisys asked to start the balance works. Bolani issued a reminder to the party on 16.09.2017.</li> <li>Party resumed work on 27.10.17. Aluminum cable hardware work completed in Nov'17. Power and control cable laying at Crushing Plant completed in Nov'17.</li> <li>Power &amp; Control cable laying, Termination with PLC panel at Hirakud SS, Karo Pump house and TP-19 has been completed. Termination with existing Logic Relay Panel is pending, will be done during shutdown.</li> <li>Laying of FO cable in progress at washing area. Party stopped site activities since 18.01.18. Work resumed by party on 22.02.2018 and erection of UPS at Karo Pump House and Hirakud sub-station completed. Laying of FO cable of Crushing Plant area completed in Apr'18.</li> <li>PLC work for Crushing section completed on 05.05.2018. Defect Liquidation work completed in Jun'18.</li> <li>Party mobilised site for work in Washing plant area on 23.06.2018. Cable laying and termination from existing Relay Panel to PLC Panel completed in Jun'18. Charging of Transformer for UPS – 1 and 2, Internal wiring at Control Desk and Software installation completed in Jul'18.</li> <li>Party resumed the site activities on 01.06.19, which was stopped since 03.05.2019.</li> <li>Cable laying from existing Relay panel to PLC panel completed. Equipment at CWPH erected.</li> <li>Software installation and SCADA for CWPH completed. Graphic and</li> </ul>

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							<p>Logic design completed.</p> <p>1) Crushing Area : Integration / Commissioning of PLC System and running of facilities through PLC has been completed and Part PAC for completed facilities at Crushing area has been issued.</p> <p>2) Washing Area : a) Washing Plant: Integration / Commissioning of PLC System for running 13 Nos drives [(SC-1, SC-2, SC-3, WPC-1,2,5,6,7,8,9,10,02 Nos DD Screens(308A &amp; 308B)] of W/Plant) through PLC is completed on 30.09.2019 under shutdown. Cabin hardware work &amp; AC fixing with wiring at MCC Building is completed on 06.06.20. Earth Pit work (Total-07nos) works is in progress.</p> <p>b) WJ-1: Integration / Commissioning of PLC System for running 05 Nos drives (WLC-1,2 &amp; WFC-1,2,3) through PLC is completed on 27.01.2020.</p> <p>c) CWPB - i) Laying &amp; termination of OFC Cable, control cable &amp; Power cable and Panel internal wiring except annunciation has been completed. ii) Logic and SCADA integration and confugred with all drive has been completed. iii) All wiring of UPS and powered up has been completed. iv) Installation of AC , Cabin Hardware work &amp; Earth PIT cover has been completed. v) Load testing and annunciation and mimic board wiring is pending.</p> <p>d) TP-19: Testing / commissioning /ntegration with PLC System for running of all Drives / Motors of Conv. FS-1, FS-2, FC-4, FS-3 Tripper Conveyor and Tripper LT have been completed on 06.02.2020 with Washing Area Control room PLC (CP-2) during shutdown period from 28.01.2020 to 06.02.2020.Cabin hardware work &amp; AC fixing with wiring has been completed on 05.06.2020.</p> <p>e) Hirakud Sub-Station : Job started on 27.02.2020. Laying of FO cable from TP-19 to Hirakud Sub-station completed on 14.03.2020.Shifting of RIO Panels of Sec Crushing Building &amp; 600TPH has been completed. Internal wiring is in progress.</p> <p>f) CMS Bldg : Shifting &amp; Placement of all console to CMS Bldg has been completed. Shifting of UPS is also completed on 26.06.20. g) Jhinkara Pump House : Installation, wiring of PLC Panel has been completed. Charging of PLC panel &amp; UPS done on 18.07.2020. Wireless communication betweenJhinkara &amp; Crushing is pending. h) 600TPH : Erection of 01Set Control Desk-PLC Panel done on 02.09.20. Internal wiring is in progress.</p>
ix.	Reclamation of water from Tailing pond (pkg-2H) – Providing recovery system of settled water from Tailing pond up to existing Make-up water tank by installing pumps, valves and pipelines, etc.	Kirloskar Brothers	9.12 Gross – 9.95	7.76	01.09.11	Feb'13/ ---	<ul style="list-style-type: none"> <li>Basic Engineering completed and Detail Engineering is in progress. supply of equipment completed.</li> <li>Survey work for LP pump house has been completed.</li> <li>350 NB pipes (to be supplied by SAIL-BOM) for extension of slime line received at site on 17.02.14.</li> <li>Supply of all DN 600 pipe completed. Total 3010.93 Mtr (258 Nos) pipes have been supplied.</li> <li>Instrumentation items like pressure gauge, monitoring system, junction boxes etc have been received.</li> <li>Taper plug valve, Air release valve and Gate valve received at site.</li> </ul> <p><u>Issues</u></p> <ul style="list-style-type: none"> <li>Work is suffering due to agitation</li> </ul>

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	<p>from local people. Matter has been taken up with District Authority for site clearance from the villagers.</p> <ul style="list-style-type: none"> <li>Party has requested for commercial closure on 10.02.2017.</li> </ul>						<ul style="list-style-type: none"> <li>Another attempt for measuring of land was done for demarcation purpose on 28.06.16, could not succeed due to strong agitation by local people.</li> <li>Meeting held between party and RMD on 07.10.16.</li> <li>Meeting again held between party and RMD on 07.02.2017. Party requested for Commercial Closure of Contract on 10.02.2017. Proposal for Commercial closure sent by Mines to RMD, Kolkata for approval on 20.03.17; discussions held on 28.03.17 at RMD, Kolkata.</li> <li>Committee constituted in Jul'17 to examine different aspects and to decide the modalities of Commercial Closure. Discussions between Committee members and M/s KBL held on 22.08.2017. Conditional signed MOM received from M/s KBL on 21.09.2017. Committee report to be finalized.</li> <li>Contract to be foreclosed. Committee constituted for commercial closure and report sent by Mines to HQ on 10.09.2018. KBL personnel visited site on 5 - 6.12.2018. Reconciliation and handing over – taking over of materials completed.</li> <li>BG returned to party on 18.02.2019. Commercial settlement is in progress.</li> <li>Committee recommendations have been approved. But party is not accepting the recommendations. Discussions being held with the party.</li> </ul>
x.	<p>Supply and Installation of Stacker and Bucket Wheel Reclaimer - pkg-2l 01 Stacker – 1800 tph and 01 Bucket Wheel Reclaimer – 2000 tph at Secondary Stockpile.</p> <p><u>Issues</u></p> <ul style="list-style-type: none"> <li>Commissioning &amp; PG Done for Stacker.</li> <li>Commissioning of Reclaimer done.</li> <li>PG Test of Reclaimer not done due to failure of Hydro-motor. After Hydro-motors are put into operation, FL Smith will be asked to do the PG test.</li> </ul>	FL Smith	15.50 Gross – 16.68	16.28	22.11.10	Jul'12/Dec'14	<ul style="list-style-type: none"> <li>Erection work of Stacker and Reclaimer completed.</li> <li>Trial run, Load Test and Commissioning of Stacker and Reclaimer completed. Equipments have been put into operation.</li> <li>Inauguration of Stacker &amp; Reclaimer done on 25.06.15.</li> <li>Breakdown of Reclaimer took place on 01.03.16 as Bucket wheel of Reclaimer was hitting the main boom structure &amp; receiving chute. Rectification work was started by M/s F L Smith on 20.05.16 and completed on 22.06.16. Trial run done on 22.06.16 and Reclaimer put into operation on 01.07.16.</li> <li>Problem in long travel drive observed in Reclaimer on 04.07.2016. M/s F L Smith attended the job on 14.07.2016 and put it in operation from 15.07.16.</li> <li>Dismantling of old Stacker started from 18.07.2016 and completed on 30.08.16. Dismantled material shifted from site by 10.09.16.</li> <li>Radio Modem and its accessories for both Stacker &amp; Reclaimer have been received at site. License for Radio modem is yet to be received.</li> <li>Engineers of the Party visited site to attend to slew and LT defects of Reclaimer on 18.01.17, rectification completed on 20.01.17.</li> <li>PG Test of Stacker done on 21.02.2017.</li> <li>PG Test of Reclaimer could not be done due to defect in Slew mechanism. Hydraulic pump of Slew sent to Ahmedabad for repairing on 28.02.2017, received back on 16.03.2017 and installed. However, problem was observed in 2 nos. Hydraulic motors and the same were dismantled on 23.03.2017 and sent to Ahmedabad on 13.04.2017 for</li> </ul>

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							<p>repairing. Proposal processed by mines on 22.06.2017 for approval of Rs. 37 lakhs towards repairing. RMD, Kolkata has suggested to consider the proposal of repair / replacement at Mines level. Proposal cleared by internal committee of Mines on 04.10.2017 and sent to ED l/c for approval on 17.10.2017.</p> <ul style="list-style-type: none"> <li>As repairing of motors was not economically viable, proposal for procurement of 2 nos. new Hydraulic motors was sent by Mines to RMD, Kolkata on 18.04.2018. Approval accorded by RMD HQ to Mines on 12.06.2018.</li> <li>Supply of 02 nos Hydro Motor by M/s Aditya Enterprises (authorized dealer of M/s Maha Hydraulics), make-Mascot completed on 10.01.2019.</li> <li>Party intimated on 07.02.19 that presently Machine is not in a condition to install Hydro motor. Before installation, servicing of complete machine is required, which involves huge cost implication. BOM has procured one set flushing machine. M/s Maha Hydraulics has been asked to depute their Service Engineer for installation of Hydraulic Motor. Party arrived on 17.04.19 for installation of Hydraulic Motor. Flushing &amp; installation of Hydraulic Motor completed on 01.05.19.</li> <li>During trial run, it was observed that Hydraulic pump of power-pack is not developing sufficient pressure (developing pressure of only 20 bars in place of 150 bars). Failure of Hydraulic Pump of power-pack is suspected. Budgetary offer for procurement of 01 no. Hydraulic Pump has been received from M/s Parker. PO was placed on M/s Siskon Hydraulics for supply of 01 no. Hyd Pump on 04.09.19. New pump installed on 05.12.2019, but there was some issue with PLC. PLC engineer to attend the same.</li> <li>Trial run of Reclaimer done on 12.03.2020 after installation of new pump.</li> <li>BOM-Plant was asked on 28.05.2020 for conducting the PG test of Reclaimer. But BOM-Plant has advised to conduct PG test after stabilization of equipment as Reclaimer is still running with frequent problems in LT and Slew operation .</li> </ul>
xi.	<p>EOT Cranes and Electric Hoists (Pkg- 2J)</p> <p>03 EOT Cranes for Tertiary Crushing building, 600 tph building and HEMM shed</p> <p><u>Issues</u></p> <ul style="list-style-type: none"> <li>Linked to Pkg - 2E and Pkg 3B1</li> <li>Non-availability of front</li> <li>Erection of Crane at HEMM shed done. Erection &amp; Commissioning of balance 2 cranes not done.</li> </ul>	Alpha Services	3.02 Gross – 3.40		30.08. 15	Dec'16 / Sept'21	<ul style="list-style-type: none"> <li>LOA issued on 31.07.2015. Contract agreement signed on 28.09.2015.</li> <li>Inspection call given by M/s Alpha Services to RMD, which was referred to Project Directorate by RMD. Inspection of Cranes by officials of Projects Directorate done on 06.10.16 at Bhiwadi and inspection report sent to RMD on 18.10.16. Billing schedule approved and Material dispatch clearance given on 15.11.16.</li> <li>All 03 EOT Cranes (40/10T, 35/10T &amp; 25/5T), 04 nos Electric Hoists and Commissioning Spares received at site.</li> <li>Erection of 40/10T Crane at HEMM Shed completed in Jan'17, to be commissioned. Commissioning is pending due to pending works (Fixing &amp; Alignment of Rails &amp; non-availability of power supply) under separate packages.</li> <li>Erection of 35/5T EOT Crane in Tertiary Building at PSP and 25/5T</li> </ul>

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	<ul style="list-style-type: none"> <li>2 cranes to be commissioned after completion of facilities at Tertiary Crushing area and 600 tph area.</li> </ul>						<p>EOT Crane in Secondary Crushing Building near 600TPH is pending due to non-availability of front clearance.</p> <ul style="list-style-type: none"> <li>Officials of M/s Alpha Services visited on 27.02.18 &amp; 28.02.18. MOM signed regarding future course of action for completing the jobs.</li> <li>Party has been asked to start the erection and commissioning work of EOT Crane at SCH-600TPH &amp; HEMM Shed at the earliest, as fronts have been cleared to start the work</li> </ul>
xii.	<p>Works Package (pkg-2K)</p> <p>Scope – Civil works of other packages.</p> <p><u>Issue:</u></p> <ul style="list-style-type: none"> <li>Work at Tailing pond area could not be taken up due to agitation of locals.</li> <li>Delay in other packages is causing delay in completion as the scope is to carry out Civil &amp; Structural jobs as per need of other packages.</li> <li>To be foreclosed after completion of jobs at available fronts.</li> </ul>	H. R. Constructions	4.46 Gross – 4.46	2.19	30.05.11	Nov'12/ July '19 (Available Fronts)	<ol style="list-style-type: none"> <li>GPS Bldg./ Extension room of RCPH / 600TPH Office Bldg - a) Job has been completed and handed over to concerned user Deptt. (Mining / Plant / Plant) w.e.f. 06.12.19.</li> <li>CMS Bldg - a) Construction of Building along with Flooring, Tile fixing, Window fixing &amp; Electrification has been completed. b) All finishing works except False Flooring has been completed. c) Party has been resumed the site activities on 20.07.2020, which was stopped since 23.03.2020. Brick fencing in-front of CMS Building is in progress.</li> <li>D-area Office Bldg -Construction of Building has been completed with distempereing &amp; painting and app coating for roof water proofing. Electrification, Sanitation is pending. No Work since 25.12.2019.</li> <li>Construction of 02 nos Pump House at Tailing Pond : Site is not clear for construction due to agitation of local people.</li> <li>Construction of Office Buildings at Tertiary Crushing area near PSP / Washing Plant / Panposh : decision for construction is pending due to space/site constraint.</li> <li>Proposal (No.- BOM/PROJ/106 Dtd 20.03.2020) for approval of Qty deviation was sent to RMD, HQ vide mail on 29.04.2020. Same has been received on 25.06.20 for compliance of some queries by RMD,Kol</li> </ol>
xiii.	<p>Maintenance Shed for HEMM (Pkg 3B-1)</p> <p>Maintenance Shed for HEMM along with Handling rooms.</p> <p><u>Issue:</u></p> <ul style="list-style-type: none"> <li>Work was stopped in Nov'16 as Civil and Structural quantity as per BOQ got exhausted.</li> <li>Committee formed by ED (projects), RMD to assess additional quantity. Report submitted by committee on 15.12.16; revised report submitted on 09.01.2017. Approval for 1<sup>st</sup> interim deviation received on 02.02.2017.</li> <li>Two member committee formed on 15.02.2017 for certifying the actual quantities executed.</li> </ul>	HR Construction Ltd	5.60 Gross – 5.60	5.54	15.10.14	Nov'15/ Dec'20	<ul style="list-style-type: none"> <li>Site activities started on 09.01.2015.</li> <li>Civil works for all foundation to start erection work completed.</li> <li>Erection of structure started on 09.02.2016. Erection work stopped due to non-availability of Structural materials on 16.06.16. Fabricated Structural materials (32.662MT) received at site in July'16 and Structural erection restarted on 11.08.16.</li> <li>Two member committee constituted on 15.02.2017 by GM (Mines) for assessment of executed work.</li> <li>Party submitted execution schedule for balance work on 29.04.2017 wherein start of work on 15.05.2017 was indicated. Party mobilized manpower to resume work on 13.10.2017.</li> <li>1) CIVIL WORKS : a) Construction of Office / Store / Battery / Lub Oil &amp; Engine Overhauling room : Construction of total 09 nos rooms has been completed with APP coating for roof treatment, wall plastering, inside white washing and outside weather coating. b) Maint Bay : Floor casting of all maint Bay including Dumper, Dozer &amp; Excavator Maint Bay has been completed with rail fixing in Dozer &amp; Excavator maint Bay. c) Ironite Flooring : completed on 20.02.2020.</li> <li>2) Mechanical Works: a) Party has completed supply &amp; erection work of total 467.135MT Fabricated Structural Items as per scope including</li> </ul>



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	<ul style="list-style-type: none"> <li>Some of the scope at High-pressure washing system has been taken out from the party as the drawing &amp; designing is dependent on High-pressure washing system package. It has been clubbed with the TS for High-Pressure system.</li> </ul>						152.135MT (Deviated Quantity) on 27.07.20. Structural painting is in progress. b) Fixing & Alignment of Rail for EOT Crane: Erection of total 144R/M CR-80 rail (12Pcs) has completed. Party has completed also rail alignment work on 26.02.2020 with 50% bolts fixing. c) CGI Sheeting : i) Supply & Fixing of first lot (5.320MT) & Second lot (8.610MT) of CGI Sheet out of 32.0MT (Approx.) has been completed. ii) Third Lot of CGI Sheet (9.3100MT) has been received on 29.07.2020. Fixing of Sheeting & Strl erection welding is in progress. 3) Air Receiver and Compressor: Erection of Air Receiver and installation of Compressor supplied by M/s Airgas Project Pvt Ltd has been completed on 25.06.2020. Procurement of valves, hoses other accessories by M/s HRC is pending for commissioning of air receiver and compressor.
xiv.	Electrics for HEMM Shed (Pkg 3B-2)  <u>Issue:</u> <ul style="list-style-type: none"> <li>HEMM shed not completed.</li> </ul>	Rally Tech Services Pvt. Ltd	0.23				<ul style="list-style-type: none"> <li>LOA issued on 30.01.2016. Contract could not be signed due to non-availability of fronts. Letter for cancellation of work issued on 02.04.2018.</li> <li>NIT issued on 01.09.2018, TOD on 21.09.2018. No offers received. TOD extended till 05.11.2018 and then till 04.12.2018.</li> <li>Tender cancelled as no offers received after three attempts.</li> <li>CET was requested to revise the cost estimate on 20.12.2018. Revised cost estimate received on 05.02.2019.</li> <li>Screening Committee meeting held on 26.07.2019. After revision in DOP of GM (Mines), proposal file sent to Mines from RMD, Kolkata on 05.08.19 to initiate tendering action at Mines</li> <li>NIT uploaded on 28.01.2020 with TOD as 03.03.2020. TOD extended up to 20.03.2020.</li> <li>Tender opened on 20.03.2020. 05 offers have been received. Techno-commercial evaluation completed. RA held on 12.06.2020. M/s Technisys is L1. Proposal initiated for placement of order.</li> <li>LOA has been issued to M/s Technisys Engg. Pvt. Ltd (L-1 bidder) on 02.07.2020. 2) Party has been asked to submit the Bank Guarantee beofre issuing the work order.</li> </ul>
xv.	PKG-3B-3: Supply & Installation of High Pressure Washing System at HEMM shed						<ul style="list-style-type: none"> <li>NIT floated on 30.11.2019 with TOD 31.12.2019. No offer received.</li> <li>TOD extended to 17.01.2020. No offer received.</li> <li>TOD further extended to 04.02.2020. No offer received.</li> <li>Matter has been referred to CET for review of Eligibility criteria.</li> <li>Revised EC received from CET on 18.05.20.</li> <li>SC during meeting on 9 &amp; 23.06. 2020, had recommended to issue the open tender enquiry for the subject job.</li> <li>NIT has been again floated on 27.07.2020 with TOD 25.08.2020.</li> <li>TOD has been extended up to 15.09.2020, as only one offer was received on 25.08.2020. Now, TOD has been extended up to 06.10.2020 as only one offers were received.</li> </ul>
xvi.	PKG-3B-4: Supply of Compressor and Air	M/s Airgases			9.8.18		1) Party has completed the supply of 01 no. Air Compressor and 01

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	Receiver at HEMM shed	Projects Pvt Ltd					no. Air Receiver. 2) Erection of Air Receiver and installation of Compressor has been completed by M/s H R Construction Pvt Ltd under PKG-3B-1 on 25.06.2020. 3) Party has been asked to depute their Engineer for commissioning the equipment. 4) Supply of Valves, Pipings is pending, which are to be supplied by M/s H R Construction Pvt Ltd.
xvii.	PKG-3B-5 : Fabrication , Supply and Erection of additional steel (45.236MT) required for completion HEMM Maintenance Shed	M/s S K Rai	36,16,301.00		15.04.19	<b>Aug'19</b>	<ul style="list-style-type: none"> <li>Tender opened on 28.12.2018. Three no. bids received. Price bid opened on 08.02.2019. M/s S K Rai became L-1 bidder. WO issued to the party on 29.03.2019. Party has completed total structural erection work as per scope of work order. Completion Certificate issued on 03.08.19 W.E.F.- 30.07.19.</li> </ul>
xviii.	Pkg4-Construction of dam-III of Tailing Pond						Not tendered yet due to non-availability of Stage II FC of 6.9 SQ Mile lease.
xix.	PKG-5 : GPS based Mines Management System						<p>1) NIT was uploaded on 19.12.2019. TOD was 18.01.2020. Again TOD was extended up to 12.02.2020 (1st Time) and up to 26.02.2020(2nd Time), as no offers were received. 2) On TOD-26.02.2020. 03 (three) offers were received. Out 03 bidders, offer of 01 bidder was technically rejected and offer another bidder was rejected as per clause 12.3 of SAIL Guideline on Banning of Business dealings, as party has been banned by M/s NHPC for a period of 03 years w.e.f. 05.12.2018. 3) Since, only offer is available for consideration, the instant tender has been cancelled, based on the TC recommendation with approval of CA and CET, Ranchi has been requested to review Eligibility Criteria, terms &amp; condition and TS vide mail dated 29.07.2020. CET, Ranchi has submitted revised TS (R=2) on 23.09.2020 and acceptance to TS(R=2) has been given by BOM on 25.09.2020 for further action of tendering.</p>
xx.	PKG-6: CCTV Based DVRMS						<ul style="list-style-type: none"> <li>Split in two parts. Tendering in first part done for areas where Plant Augmentation job is complete.</li> <li>Tender Notice was issued on 21.12.2019. Tender opened on 22.01.2020. 03 (three) no. offers have been received. Techno-commercial evaluation completed. Tender cancelled as only one party was eligible. Preparation of revised TS &amp; Eligibility Criteria is under process.</li> </ul>
xxi.	PKG -8 : Procurement of HEMM						<ul style="list-style-type: none"> <li>1 excavator, 3x100 T dumper, 2 drill, 2 dozers, 1 water sprinkler etc. ordered and received.</li> <li>Order to be placed for remaining equipment (3X100 t Dumper, 1 drill, 1 water sprinkler, 2 wagon drills etc.)</li> <li>To be ordered after contractual mining is replaced by departmental mining at D and Panposh area.</li> </ul>

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xxii.	Survey & Soil Investigation (Pkg-7)	P K De & Associates	0.06	0.06			Job Completed
2	<b>Expansion of Gua Iron Ore Mines to 10 MTPA along with 12.5 MTPA Beneficiation Plant (10 MTPA ROM + 2.5 MTPA Dumped fines) and 4 MTPA Pellet Plant</b>		4749 (969) Gross – 5104.00	126.33		40 months from May'14 i.e Sep'17 Rev– 47 months from May'14 i.e. Apr'18; extended up to Oct'18; No further extension granted;  Contract cancelled on 5.08.2019	<ul style="list-style-type: none"> <li>• Approved by SAIL Board on 14.02.14</li> <li>• Sanction letter issued on 02.04.014</li> <li>• Contract cancelled on 05.08.2019.</li> <li>• Re-tendering to be done after revisiting the requirement and the technological changes &amp; statutory provisions in the intervening period.</li> <li>• CET has been given the assignment for finalization of the plan.</li> <li>• Scheme revisited and finalised as under by CET: <ul style="list-style-type: none"> <li>— 12.5 MTPA Crushing and Beneficiation facilities</li> <li>— 2 MTPA Pellet Plant (capacity of Pellet Plant to be ascertained after completion of test results)</li> </ul> </li> <li>• EOI floated for Beneficiation and Pellet plants on BOO basis. Poor response received.</li> <li>• Assignment given to CET on 20.03.2020 to explore MDO option for Mine Development and Expansion along with Beneficiation and Pellet Plant.</li> <li>• Draft Concept Note has been submitted by CET.</li> <li>• A VC was held with CET on 26.05.20.</li> <li>• Gua is coordinating with CET for necessary sample test.</li> <li>• Comments of Gua on Concept Note have been received on 09.06.2020.</li> <li>• CET has given modalities of testing and testing parameters.</li> <li>• Budgetary offer received from NML, Jamshedpur and IIMT, Bhubaneshwar.</li> </ul> <p>Information on Project assigned to M/s L&amp;T and consortium for development of Gua mine.</p> <ul style="list-style-type: none"> <li>• M/s. L&amp;T has submitted a claim of approx. Rs. 250 crore plus 4430799(\$ and 34686864 (Euro) in lieu of the jobs done by them.</li> <li>• Letter has been given to L&amp;T on 25.09.2019 for amicable settlement. A high level Committee has been constituted for amicable settlement.</li> <li>• A legal Notice has been sent by M/s. Parekh and Co. advocates vide their letter dated 24.01.2020.</li> <li>• Draft Reply was sent to Corporate Law for legal vetting. Corporate Law opined that the reply is not in-line and RMD should make efforts for amicable settlement.</li> <li>• Meanwhile, notice for Conciliation was received by M/s. Parekh and Co. on behalf of M/s. L&amp;T and Consortium on 06.03.2020.</li> <li>• M/s. L&amp;T and Consortium was invited for mutual discussions for amicable settlement. However, the meeting could not be held as they expressed inability to attend the meeting due to COVID-19 Pandemic.</li> <li>• Vide letter dated 20.03.2020, M/s. L&amp;T has been requested to send the break-up of their claim and withdraw notice of Conciliation.</li> </ul>

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							<ul style="list-style-type: none"> <li>Meeting held on 03.06.2020 with M/s. L&amp;T for amicable settlement though VC in which M/s. L&amp;T was requested to review their claim.</li> <li>Meeting held on 02.07.2020 through VC. M/s L&amp;T has not agreed for amicable settlement.</li> <li>Invitation for conciliation received from M/s. L&amp;T and Consortium on 16.07.2020.</li> <li>Conciliator has been appointed. Party to accept.</li> </ul>
i.	<p>Crushing, Beneficiation and Pellet Plant (Pkg-001)</p> <p><u>Issues:</u></p> <ul style="list-style-type: none"> <li><u>Statutory Clearances</u> <ul style="list-style-type: none"> <li>Non-availability of Stage-II FC for 361.295 Ha Mining lease area: The proposal for Stage-II FC has been recommended by Jharkhand State Govt. in July'15 and it is under consideration of MoEFCC, New Delhi. Matter is being followed up at each level of PMG, CCI, PMO, MOS, MoEFCC. Issue taken-up by Secretary (Steel) with Secretary (MOEF) vide letter dated 07.02.2017.</li> <li>The site for project work was to be handed over within 4 months i.e. by Aug'15. Due to non-availability of Stage-II FC for 361.295 Ha Mining lease area and Surface Lease renewal, the site could not be handed over as planned.</li> <li>Site will be made available for excavation (cutting &amp; filling work) after availability of necessary clearances from the Government and tree felling.</li> <li>Project land at Birsa Nagar &amp; Baazaar area is occupied. In this area, facilities related to Pellet Plant including input material yard have been envisaged.</li> </ul> </li> <li><u>Test works:</u> Beneficiation Test Results completed. Test work for Pelletisation under progress.</li> </ul>	L&T / Outotech	2742.84 Gross – 3019.84	-	03.05.14	36 Months from handing over of site after Stage II FC	<ul style="list-style-type: none"> <li>LOA issued on 04.04.2014.</li> <li>Tripartite Agreement between SAIL, Larsen &amp; Toubro Limited and Metso Minerals (Sweden) AB signed on 31.03.2015.</li> <li>Contract Agreement signed with M/s L&amp;T and Consortium on 02.04.2015. The effective date of contract is 03.05.2014.</li> <li>L&amp;T has set up site office.</li> <li>Survey work completed.</li> <li>Soil Investigation under progress.</li> <li>Plot plan approved by MECON on 19/01/16.</li> <li>Basic Engineering will start after finalisation of Test results.</li> <li>Stage II FC for 37.66 Ha of Jungle-Jhar land in Surface Lease area received from MoEFCC, Ranchi on 04/03/2016.</li> </ul> <p><u>Test works:</u></p> <ul style="list-style-type: none"> <li>Permission for dispatch of material to NMDC, Hyderabad received on 5th June 2015. Material reached NMDC Hyderabad on 17th June 2015. Permission for dispatch of material for destinations MINTEK, South Africa as well as GTK Finland received on 30th June 2015 from Mining Department of Jharkhand.</li> <li>Interim test results for DF (dumped fines) and BO (beneficiable ore) has been submitted by L&amp;T. Submitted sample Test results not found in order (not conforming to output parameters mentioned in the contract) and the same is under discussion with L &amp; T / Metsos.</li> <li>In the meeting held on 07.06.2016 between RMD, MECON, L&amp;T and Metso, it was mutually agreed that additional sample is required to carry out test work for Lump &amp; Fines Jig Streams.</li> <li>Sample sent to SGS and NMDC on 23.07.2016 for analysis and report received on 22.09.2016. However, as the Test results were found to be in variance from Contract Technical Specification, it was decided to send further samples for testing and the same was sent to M/s SGS on 29.09.2016 and report received by RMD on 19.10.16. The same was discussed between RMD and MECON on 04-05.11.16 and it was decided to send samples to RDCIS for testing. Samples sent to RDCIS on 30th Nov'16 and report submitted by RDCIS on 14.12.16. M/s L&amp;T / METSO was requested by RMD on 22.12.16 to lift Lump (10-40 mm) and fines (-10 mm) samples for further testing. 25 Tonnes of Iron ore samples handed over to L&amp;T / Metso for testing at NMDC, Hyderabad and the same has reached NMDC, Hyderabad on 21.01.17. NMDC started the test work on 03.02.2017. A team of 3 executives from</li> </ul>

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	<ul style="list-style-type: none"> <li>Tendering for remaining linked packages.</li> </ul>						<p>MECON, Gua and P&amp;D, RSP visited NMDC, Hyderabad twice (6-7.03.17 and 30.03.17 – 01.04.17) for discussion on Sampling and Test results. SAIL/ MECON witnessed Jig test on 24-25.05.2017. Test Work for Lump and Fines Jig have been completed in Jun'17 and accepted. Further, L&amp;T / METSO has sent the Jig rejects from NMDC, Hyderabad to GTK, Finland for pilot &amp; batch scale test in Aug'17. One official each from SAIL and MECON visited Finland for witnessing test works during 9-20.10.2017. Test results received. Pilot scale tests for Fines beneficiation held at GTK, Finland in Dec'17 and report received. Pelletisation test done at Outotec, Germany, report received and under examination by MECON.</p> <ul style="list-style-type: none"> <li>Re-location of Authorised / Un-authorized Occupants: <ul style="list-style-type: none"> <li>108 Prefab Quarters (M/S Lloyd Insulations) constructed to shift Authorised occupants. Construction of all 27 blocks completed. Shifting of occupants (108) completed.</li> <li>Construction of 160 Dwelling Units for Un-authorized occupants <ul style="list-style-type: none"> <li>Part – A (110 Dwelling Units) : Contract signed with M/s Electro-Mech Engineers on 10.02.2016. Total 11 blocks – Work completed.</li> <li>Part - B (50 Dwelling Units): Contract signed with M/s Jyothi Construction on 03.02.2016. Work completed.</li> </ul> </li> </ul> </li> </ul> <p>Un-authorized occupants (160) have been evicted and the area is under control of Gua Ore Mines.</p>
ii.	Appointment of Consultant for rendering Project Management Services	Essar Projects (India)	12.00 Gross-13.68	-			<ul style="list-style-type: none"> <li>LOA issued on 11.01.2016. Contract not signed.</li> </ul>
iii.	<p>Power Distribution 220/11kV MRS, 11/3.3kV HTSS, SAS/SCADA and Transmission Line</p> <ul style="list-style-type: none"> <li>220/11 kV MRS</li> <li>3 HTSS (Crushing Plant, Beneficiation Plant and Pellet Plant)</li> <li>Related infrastructure <u>Issues</u> <ul style="list-style-type: none"> <li>Forest clearance awaited.</li> </ul> </li> </ul>			-			<ul style="list-style-type: none"> <li>Tender floated on 25/01/2016 with TOD on 09/03/2016.</li> <li>Pre bid meeting held on 09.02.2016 in which 08 bidders participated (Siemens, Sterling &amp; Wilson, L&amp;T, ABB, Enmas Power- Chennai, Honeywell, McNally Bharat &amp; Alstom).</li> <li>1<sup>st</sup> Extension of TOD – 29.03.2016; 2<sup>nd</sup> Extension of TOD – 19.04.2016; 3<sup>rd</sup> Extension of TOD – 05.05.2016.</li> <li>4 offers received - M/s L&amp;T; M/s ABB India Ltd.; M/s Alstom T&amp;D India Ltd. and M/s Siemens Ltd. Offers under evaluation by MECON. Tender discussions completed on 20-21 Sept'16. Techno Commercial evaluation completed. TAR received from MECON on 03.06.2017.</li> <li>Tender cancelled in Oct'18..</li> </ul>
iv.	<p>Power from JUSNL</p> <ul style="list-style-type: none"> <li>2 nos. 220 kV Bay Extension work at 220/132/33 kV Ujihari (Chaibasa) Substation.</li> <li>220 kV D/C from Chaibasa to Gua</li> </ul>		143	54.77		Dec'20	<ul style="list-style-type: none"> <li>Contract signed with JUSNL in Jul'15 for supply of 220 KV power on Deposit Term basis.</li> <li>Payment terms re-negotiated with M/s JUSNL. They agreed for "ESCROW" account arrangement.</li> <li>NIT issued by JUSNL on 09.02.2016 with last date of submission of bids by 29.02.2016. Date extended to 15.03.2016 and further extended up to 30.03.2016. Last date for Bid submission extended further (3<sup>rd</sup> extension) to 11.04.2016. On 13.04.2016 (TOD), 04 offers received</li> </ul>

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	<u>Issues</u> <ul style="list-style-type: none"> <li>The project cannot be commissioned unless MRSS is ready.</li> <li>The possibility of setting up small MRSS to utilise the T/L for the time being (till the main project is commissioned) is being explored.</li> </ul>						<p>from - M/s L&amp;T; M/s Prem Power, Gurgaon; M/s A to Z Maint. &amp; Engg. Services; Jagbandhu - BMW Joint Venture.</p> <ul style="list-style-type: none"> <li>Price opened on 11.06.16 by JUSNL, M/s. A 2 Z Infra Engg. Ltd., Gurgaon is L-1 at Rs. 104.54 Cr against estimate of Rs. 93 Cr. After two rounds of price negotiation (06/07/2016) with the L-1 bidder, revised offered price is 12% higher than the estimate.</li> <li>The firmed up cost of the package is Rs. 124 cr, which is 7 Cr higher than the earlier agreed cost of Rs. 117 Cr.</li> <li>Order placed by JUSNL on M/s. A to Z Infra on 29.09.16.</li> <li>Amended agreement signed with JUSNL on 17.06.2016 with provision of opening of an ESCROW account and payment of 21.5% as supervision charges with progressive bills. Draft agreement for ESCROW account has been cleared by Corporate Finance in July'16. Agreement for ESCROW account signed between RMD and JUSNL on 27.09.16; ESCROW account opened in Bank of India, Ranchi. Work to be completed in 30 months from opening of ESCROW Account i.e. by Mar'19.</li> <li>GSS - For substation, Survey, levelling and structural foundation completed, Major civil works except road completed and 83% equipment erected.</li> <li>TL - For Transmission Line, Route alignment, survey done. Out of 278 towers, foundation for 124 towers have been completed and 104 towers have been erected.</li> <li>NOC obtained from PGCIL for 400 KV line crossing. NOC from DC for Govt Land and Jungle- jhar obtained.</li> </ul>

#### Sustenance Schemes - under Expansion

S N	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
	<b>Enhancement of Loading Capacity at Bolani Iron Ore Mines</b> (Installation of Stacker and Reclaimer; Installation of long Conveyors – LC3 & LC4 with movable Trippers for Full Rake loading; Installation of Conveying system from Fines stockpile to Loading yard; Modification of existing conveyors; Dust suppression system)	Tecpro Systems Ltd.	119.88 Gross – 124.88	114.49	24.07.08	Dec'09/ <b>Sep'13 (LC3)</b>  LC-4 balance – (RLS system in place of LC4 has been envisaged)  On-going project will be closed before the proposal for RLS is	<ul style="list-style-type: none"> <li>Out of two lines, one line has been completed and stabilized for full rake loading except Reclaimer.</li> <li>Stacker commissioned on 13.07.12 and stacking of material started from 28.08.12.</li> <li>For Reclaimer, counter weight boom buckled and complete Bucket wheel assembly fell on the ground in collapse condition on 09.11.13.</li> <li>- Sri P K Singh, DMS (Mech), Ranchi inspected the accident site twice on 11.11.13 and 03.01.2014 and instructed for further investigation of "Failure of Bucket Wheel Reclaimer" by M/s CMERI,</li> </ul>	

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	<ul style="list-style-type: none"> <li>▪ An incident of Structural failure of the new Reclaimer supplied by M/s Elecon occurred on 09.11.2013 when work related to addition of counter weights was going on. Three persons working on the Reclaimer fell down &amp; got seriously injured. Two persons succumbed to injuries later.</li> <li>▪ Site activities have been abandoned by contractor since 09.11.13. Engineer's Noticed issued to M/s Tecpro on 23.04.14. Risk Purchase Notice (RPN) issued on 14.08.2014. Balance jobs are being executed in five packages, which have been further divided into 24 sub-packages.</li> </ul>					processed.	<p>Durgapur (Govt Agency).</p> <ul style="list-style-type: none"> <li>- As instructed by DMS (Mech), Ranchi, Mr Abhijit Chatterjee, Chief Scientist of M/s CMERI inspected the structure from 15.11.13 to 17.11.13, took photographs of the location of BWR, collected the material samples from Bucket Wheel boom and chemical analysis report of sinter grade fines from new stockpile for further investigation</li> <li>- M/s CMERI submitted Preliminary Report (Stage-I) on 26.12.13 &amp; Final Report (Stage-II) on 28.02.14 and also gave permission for dismantling of collapsed Reclaimer.</li> <li>- M/s TSL has been asked to mobilize their manpower and resources for dismantling the failed Reclaimer. No response from M/s Tecpro.</li> <li>• After Modification of Conveyor F-3 (Tail Pulley shifted 233 m toward Head Pulley), trial run done on 20.12.13. Loading is continuing by deploying Backhoe since 01.08.14.</li> </ul> <p>Proposal for tendering the balance works by splitting the balance work into 05 Packages under RPN approved.</p> <p><b><u>RPN packages</u></b></p> <ul style="list-style-type: none"> <li>• Project being implemented in 24 sub-packages out of which 19 have been completed, 02 packages (2C1 &amp; 2B4 are under execution, 03 are yet to be tendered (2C2, 2G &amp; 5C).</li> <li>• <b>Package I (A &amp; B) Balance Mechanical &amp; Civil Work and Electrical Work to start High Grade Fines Loading system - Completed.</b></li> <li>• <b>Package II (Defect Liquidation work of LC-3 Loading Network):</b> <ul style="list-style-type: none"> <li>- NIT issued on 19.11.2014 with TOD on 18.12.2014. TOD extended to 09.01.2015 and two offers received from M/s Bengal Tools Limited (BTL) &amp; M/s HSCL.</li> </ul> </li> </ul>

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							<ul style="list-style-type: none"> <li>- Approval accorded for opening of less than X+2 offers. Offers were opened on 13.01.2015. Price Bids opened on 14.05.2015.</li> <li>- Tender cancelled as the price of M/s. BTL was ~99% higher than the estimate.</li> <li>- Committee constituted to examine scope of work and packaging on 08.07.2015 submitted its report on 05.08.2015.</li> <li>- Package divided into 07 (further into 16) sub-packages considering the common scope of work and expeditious implementation.</li> <li>- <b>Pkg 2A, 2B1, 2B2, 2B3, 2B5, 2C3, 2C4, 2D2, 2D3, 2F1, 2F2, 2D1 - Completed.</b></li> <li>- <b>Pkg 2B4</b> – Installation of Dust Suppression system: NIT issued on 19.05.2018. 04 offers received on extended TOD 28.08.2018. LOA placed on M/s. VidhiVidhan Engineers on 31.07.2019. Contract Agreement signed on 16.10.19.</li> </ul> <p>Party has become unable to start the supply of materials and to resume the site activities due to delay in approval of Billing schedule. 2) a) Party had submitted Billing Schedule (R=0) on 15.06.2020 for approval. Acceptance to Billing schedule was received from all agencies on / before 08.07.2020 except RMD. b) After receiving the RMD comments on 10.08.2020, Party has finally resubmitted the revised Billing schedule on 24.08.20 incorporating the comments of RMD, which was forwarded to RMD on same day. Acceptance from RMD was received on 25.08.2020. c) Now proposal has been sent to GM (Mines) on 28.08.2020 after clearance from CGM(Projects) for onward transmission to BOM-Finance for checking and vetting before approval. 4) Design &amp; Engg is in progress. Nos. of drawings submitted - 20/55. Nos of Drawings approved - 16/55.</p> <ul style="list-style-type: none"> <li>- <b>Pkg 2C1</b> – Balance Electrical works for LC-3 Loading network : Price bid opened on</li> </ul>



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							<p>08.01.2019. M/s BLS Enterprises is L1. LOA issued to party on 26.02.19. Work Order issued on 29.04.2019.</p> <p>1) Maintenance of 03 nos ACs of PLC room of fines MCC Bldg has been completed.</p> <p>2)a) Laying of power cable from Fines MCC to Tail end of Stacker conveyor has been completed. Termination to be done. b) Total Earth Pit (47 Nos) along with fixing of earthing strip has been completed. Only fixing of chambers is pending. Fixing of only 04 nos chamber out of 47 has been completed. Naming &amp; Details of earth Pit is in progress. c) Fixing of 56 nos street light at fines stockpile &amp; loading plant area, 08 nos HSVC at Stacker and 50 nos LED tube light at LUMP &amp; FINES MCC room has been completed. d) Installation of 10 nos Emergency Light out 12nos at Lump &amp; Fines MCC room has been completed.e) clamping of cables on cable tray with aluminum stripe clamp is in progress.</p> <p>3) Party was asked to resume site activities vide E-Mail dated 08.05.2020, which have been stopped since 01.01.2020 due to expiry of contract period. Though Time extension was received on 08.05.2020, but, party has not resumed the site activities till now, even after granting 2nd time extension up to 31.12.2020, as it involves site visits of out of state experts / manpower, which has not been possible due to suspension of general transportation system for COVID-19. 4) Party has been again asked vide letter dated 27.08.20 to resume the site activities.</p> <p>- <b>Pkg 2C2</b> – Preparation of As built drawing for Electrical installations : Proposal was kept on hold; was to be taken up after completion of all RPN Electrical packages. Proposal (No.121 dated 19.06.2020) is under process of tendering.</p> <p>- <b>Pkg 2G</b> – Training : Proposal was kept on hold and was awaited till completion of all RPN Electrical Packages. An estimate was sent to CET, Ranchi on 31.03.2020 for vetting. CET, Ranchi has</p>

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							<p>replied that since the instant case is proprietary in nature (M/s Schneider Ltd, the OEM), hence, preparation/vetting of Estimate by CET is not required. Proposal (No.- BOM/PROJ/110 Dated 23.05.2020) is under process of tendering. CSC during their meeting on 16.07.2020 has recommended to issue NIT on STE basis to said party. NIT was issued on 30.07.2020 vide tender no.- BOM/CC/PROJ/T-118/2020-21 dated 25.07.2020 with TOD - 11.08.2020. The offer received from the bidder was not as per terms and condition of NIT. Hence party has been asked to submit the revised offer as per terms and condition of NIT.</p> <ul style="list-style-type: none"> <li>• <b>Package III (Dismantling of Reclaimer &amp; Reconstruction of Conveyor F-3):</b> <ul style="list-style-type: none"> <li>- NIT issued on 19.02.2015 with TOD on 20.03.2015. TOD extended to 13.04.2015. No offers received. Tender was cancelled.</li> <li>- Split into two sub packages (<b>3A, 3B</b>) – <b>Completed.</b></li> </ul> </li> <li>• <b>Package IV (Supply &amp; Erection of Reclaimer): Completed.</b></li> <li>• <b>Package V (Construction of Conveyor LC-4, JH-8, Modification Work of Conv. 12, 14, JH-1D, Belt Feeders 4, 5):</b> Split into 03 sub-packages – 5A, 5B &amp; 5C. <ul style="list-style-type: none"> <li>- <b>Pkg- 5A &amp; 5B Completed.</b></li> </ul> </li> <li>• <b>Pkg 5C</b> – Construction of Conveyors LC-4, JH-8, JH-1D and shifting of drive of belt Conveyor 14 to JH-1D: Possibilities of alternate Loading systems are being explored as loading from Bolani will be affected if execution of LC4 is taken up. CET has been given assignment to prepare FR &amp; TS for installation of Rapid Loading System (RLS) at Loading plant of Bolani ore Mines. Proposal(No.- BOM/PROJ/130 Dated 21.08.2020) for foreclosure of contract for Enhancement of Loading</li> </ul>

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							Capacity and installation Rapid Loading System in place of construction of Conv. LC-4 under RPN PKG-5C has been sent to CGM(Mines) for onward transmission to RMD-HQ. as the instant package (RPN PKG-5C) is not techno-economically feasible.	
	<b>RPN packages Completed</b>							
	1 & 2. Balance Mechanical & Civil Works and Electrical Works to start High Grade Fines Loading system (Pkg-1A & B)	- C R Enterprises - Power Net Distribution and Solution	0.0210 +0.0804	0.0210 +0.0804	14.10.2014 13.10.2014	<b>Jan'15 (Completed)</b>	<ul style="list-style-type: none"> <li>• Completion Certificate issued to M/s C R Enterprises on 12.12.2014 wef 29.11.2014.</li> <li>• Completion Certificate issued to M/s Power Net Distribution &amp; Solution on 21.01.2015 wef 14.12.2014.</li> </ul>	
	3. Dismantling of Reclaimer (Pkg-3A)	M/s Fighter Construction	0.45	0.46	14.09.16	<b>Dec'16 (Completed)</b>	Completion Certificate issued on 19.12.2016.	
	4. Reconstruction of Conveyor F-3 (Pkg-3B)	SK Rai	0.24	0.24	02.01.2017	<b>May'17 (Completed)</b>	Completion certificate issued on 24.05.2017	
	5. Rail Alignment of LC-3 (Pkg-2A)	SK Rai	0.34	0.46	24.11.2016	<b>Jan'17 (Completed)</b>	Completion Certificate issued on 02.02.2017 w.e.f. 23.01.2017.	
	6. Modification of Conveyor Gallery Structure, Stringer, Short Post (Pkg-2B-1)	Maa Vindyavashini & Sons	0.16	0.16	20.05.2016	<b>Feb'17 (Completed)</b>	Completion Certificate issued to Party on 08.02.2017 wef 30.12.2016.	
	7. Miscellaneous Structure & Mechanical works (Pkg 2B-2)	Suman Kumar Yadav	0.15	0.15	30.07.2017	<b>Jul'17 (Completed)</b>	Completion Certificate issued on 10.08.2017 wef 30.07.2017.	
	8. Painting Works (Pkg-2B-3)	Maa Vindyavashini & Sons	0.24	0.24	12.12.2016	<b>May'17 (Completed)</b>	Completion certificate issued on 26.05.2017 wef 26.05.2017.	
	9. Pull Cord Switch Circuit Modification for HT Drive Conveyor at new Loading Plant (Pkg-2C3)	BLS Enterprises	0.02		01.02.2018	<b>Jul'18 (Completed)</b>	Completion Certificate issued on 27.07.2018 wef 27.07.2018.	
	10. Providing Lighting Facility in LC-3 at new Loading Plant (Pkg-2C4)	Power Net Distribution and Solution	0.02		06.12.2017	<b>Jul'18 (Completed)</b>	Completion Certificate issued on 11.07.2018 wef 05.07.2018.	
	11. Miscellaneous Civil works and other Finishing work at new fines stockpile area (Pkg 2D-1)	Badajena Iron & Steel Ind. Pvt. Ltd	0.26	0.12	25.03.2017	<b>Nov'17 (Completed)</b>	Completion certificate issued w.e.f 15.11.2017 vide letter dt. 06.12.2017.	
	12. Balance Civil Works for VGTU (Vertical Gravity Take-up) of Conveyors (Pkg-2D3)	Badajena Iron & Steel Ind. Pvt. Ltd	0.36	0.19	26.09.2016	<b>Apr'17 (Completed)</b>	Completion certificate issued w.e.f 30.08.2017 vide letter dt. 06.12.2017.	
	13. Balance Civil, Mech & Structural works of High Grade Fines discharge Conveyor FC-3 (Pkg- 2F1)	Maa Vindyavashini & Sons	0.34	0.34	03.06.2016	<b>Apr'17 (Completed)</b>	Completion certificate issued w.e.f 08.04.2017 vide letter dt. 24.04.2017.	
	14. Supply & Erection of Reclaimer - 1500 TPH (Pkg-IV)	L&T	15.75	14.25	01.10.2015	<b>Aug'17 (Completed)</b>	Contract Agreement signed with M/s L&T on 17.10.15. PAC issued on 31.08.2017. Liquidation of defects observed during PAC completed in Oct'17. Commissioning Certificate issued on 27.10.2017. PG Tests	

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							completed on 25.01.2018 and guaranteed loading capacity of 1500 TPH achieved. PG certificate issued on 02.02.2018. Handed over to operation for regular operation in Feb'18.	
	15. Structural & Mechanical work to modify the Conveyor-12,14,JH-1D and Belt Feeder – 4 & 5 (Pkg – 5A)	S K Rai	0.23	0.16	25.04.2017	<b>Nov'17 (Completed)</b>	Completion certificate issued w.e.f 24.11.2017 vide letter dt. 06.12.2017.	
	16. Balance civil works for DFDS, DSS, Lumps & Fines MCC and ventilation system at new fines stockpile area (Pkg-2D2)	Badajena Iron & Steel Ind. Pvt. Ltd	0.29	0.03	20.09.2016	<b>Aug'18 (Completed)</b>	Completion certificate issued on 01.09.2018 wef 30.07.2018.	
	17. Misc. Mechanical works (including Ventilation System for Battery & Transformer Room, HGF Tunnel etc.) (Pkg-2B-5)	S K Rai	0.37	0.33	16.04.2018	<b>Aug'18 (Completed)</b>	Completion certificate issued on 02.08.2018 wef 26.07.2018.	
	18. Balance Electrical works for Conveyor 12/14, Belt Feeder-4/5 and Winch (pkg-5B)	Hindustan Electric Company	0.37	0.11	01.02.2018	<b>Sep'18 (Completed)</b>	Completion Certificate issued to party w.e.f. 30.09.2018 vide letter dt. 15.10.2018.-	
	19. Balance Electrical works of High Grade Fines Discharge conveyor FC-3 (Pkg-2F-II)	M/s Power Net Distribution & Solution	0.09		05.02.2018	<b>Oct'18 (Completed)</b>	Completion Certificate issued w.e.f. 03.10.2018 vide Letter dated 25.10.2018.	
	<b>Enhancement of Production capacity of Meghahatuburu Iron Ore Mines (from 4.3 MTPA to 6.5 MTPA)</b> Total packages – 05; Ordered – 04; Balance – HEMM		118.85 Gross – 125.78	90.68		Jun'12/ Dec '20		

S N	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
	<p>Augmentation of Plant Capacity (pkg-1)</p> <p>(Main Plant Augmentation; Downhill Conveying System; Electrical Facilities; Dust Suppression System; Bucket Wheel Reclaimer)</p> <p><u>Issues</u></p> <ul style="list-style-type: none"> <li>• Risk Purchase Notice issued to M/s Tecpro on 16.08.2014 due to following reasons: <ul style="list-style-type: none"> <li>- Progress of civil and structural work was very slow.</li> <li>- Erection of Reclaimer on hold since Nov'13 as presence of M/s Elecon (supplier of Reclaimer) required during erection who had refused for the same due to commercial issues with M/s Tecpro.</li> <li>- 50% Erection of Reclaimer balance. (Pylon, Erection of locking assembly, Erection of Mast, Erection of Boom Conveyor, Erection of Bucket wheel, Erection of Counter weight, Erection of Electrical drives including PLC, Erection of Hydraulics, Erection of Mechanical drives)</li> <li>- M/s Tecpro was unable to make payments to sub-contractors. Mobilization of resources (cranes, bought-out items &amp; manpower) was suffering badly.</li> <li>- Direct payment was made to Sub-contractors &amp; sub-vendors for continuation of jobs &amp; for supply of balance bought-out items.</li> <li>- Representative of M/s Tecpro left site since Oct'14.</li> </ul> </li> <li>• CET prepared NIT for Balance jobs to be executed in 02 packages: <ul style="list-style-type: none"> <li>- RPN Pkg 1 - Balance work of Main package except Bucket Wheel Reclaimer</li> <li>- RPN Pkg 2 - Balance work of Bucket Wheel Reclaimer (3000 TPH)</li> </ul> </li> </ul>	Tecpro Systems Limited	68.20 Gross – 72.02	61.41	08.05.10	Apr'12 / Dec '20	<p>Crushing Section</p> <ul style="list-style-type: none"> <li>- Work related to Crushing section, Installation of Scalping screen, Apron Feeders (106 &amp; 112), Conveyors (107 &amp; 113) completed in Feb'13.</li> <li>- Scalping screen had not achieved the rated capacity. Scalping Screen as replacement to installed screen received at site from TRF on 14.09.14.</li> <li>- Shut down of 3 days taken in Nov'14 and erection jobs completed.</li> </ul> <p><b>Screening section</b></p> <ul style="list-style-type: none"> <li>- Sequential replacement of Screening plant equipment is in progress.</li> <li>- All the 03 nos. Classifiers have been erected and are under trial run. Modification of all 03 nos. Launderers completed. No load test for all Classifiers completed.</li> <li>- DD Screens &amp; Conveyors: Procurement of structural material not completed.</li> <li>- Conveyors: Foundations completed except for drive base and tail pulley base which will be done during shutdown. Ground assembly completed. Material procurement yet to be completed.</li> </ul> <p><b>Reclaimer</b></p> <ul style="list-style-type: none"> <li>- Only 50% erection completed. Rail travel mechanism, Electrical Platform, E-House, LT Drives, Under Carriage, Gear for Slew ring, Slew bearing, Feed Table, Central Chute upper part &amp; erection of Upper carriage of Reclaimer completed.</li> <li>- M/s Kiran Fabricators was deputed by M/s Tecpro to commence the balance erection job of the Reclaimer.</li> </ul> <p><b>Downhill Conveyors</b></p> <ul style="list-style-type: none"> <li>- Foundation jobs for Conveyors and Junction House started. Civil works nearing completion, structural erection at slow pace. 190 MT Structures yet to be supplied. Civil &amp; Structural jobs at Downhill conveyor at standstill.</li> </ul>	
(a)	<p><b>RPN Package -1</b></p> <p>Balance Work of Main Package except Bucket Wheel Reclaimer</p> <p>(Erection of three screens; Downhill conveying</p>	HSCL	19.99	0.80	9.11.2015	Nov'16 /Dec'20	<ul style="list-style-type: none"> <li>• LOA placed on 09.10.2015.</li> <li>• Contract signed with M/s HSCL on 05.12.2015.</li> <li>• Design Engineering is under progress.</li> <li>• For JH – 1, civil works completed; Structural</li> </ul>	

S N	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
	<p>system; Related Electrical Work; Dust Suppression System)</p> <p>Issues :</p> <ul style="list-style-type: none"> <li>Abysmally poor performance of HSCL. No experienced manpower and organisation structure at site.</li> <li>Despite assurances from HSCL, no firm plan of execution is being submitted.</li> <li>Review meetings held with senior officials of HSCL to expedite the job.</li> <li>A Committee has been constituted comprising of members of CET, plant operation &amp; project department of MIOM to explore the possibility of use of DD screen of BOM at MIOM. The report of the committee is awaited.</li> </ul>						<p>erection work up to 2nd floor completed; Chequered plate flooring for 1<sup>st</sup> and 2<sup>nd</sup> floor completed. For JH -2, civil works completed. Welding &amp; column bracing erection under progress including erection of top floor beam. For JH – 3, casting of all 4 columns completed, Floor erection completed.</p> <ul style="list-style-type: none"> <li>For Dust Suppression System building, excavation of all 4 no. columns, PCC, RCC and casting of beams completed. Civil work in progress at DSS 3 building.</li> <li>Replacement of Double Deck Screen – S/d of screen taken from 05.12.16. Dismantling of old screen completed; new Screen installed in Jan'17 and is under regular operation. Floor strengthening work completed in Feb'17.</li> <li>During S/d from 20.04.2017, modification work of Conveyor 309 taken-up and Trials taken on 04.05.2017; Conveyor is under operation. Work for replacement of Apron Feeder completed during S/d and No load trial taken on 26.05.2017. Strengthening of all 3 footings of Apron feeder completed and Trials done on 24.08.2017. For DSS-3, Foundation, Column and Roof casting completed.</li> <li>Work under Downhill conveying system and construction of dust suppression system under progress. Sheeting work in progress at Conveyor 202A, 202B, JH1 and Structural erection work in progress at JH2.</li> <li>No progress on electrical and PLC front.</li> <li>Civil work in progress at DSS3 building.</li> <li>Foundation columns TR4 and TR5 completed.</li> <li>Structural work at Junction House JH2 and Callery GR1 under progress..</li> </ul>	
(b)	<p><b>RPN Package 2</b> Balance Work of Bucket Wheel Reclaimer</p> <p>(Erection and Commissioning of Bucket Wheel Reclaimer - Replacement of existing Bucket wheel Reclaimer (2000 tph) with higher capacity Reclaimer (3000 tph) )</p>	Lepton projects	3.535	3.18		Jul'18 / July '20	<ul style="list-style-type: none"> <li>NIT issued on 27.01.2016 with TOD on 25.02.2016; extended to 15.03.2016.</li> <li>Offer received from 04 parties: M/s Elecon EPC Projects Limited, M/s Fighter, M/s Scorpio Engineering Pvt Limited and M/s Lepton Projects Pvt Ltd. Tender discussion held with bidders on 12-13.04.16. Price bid opened on 11.07.16, M/s Lepton is L-1 at Rs. 3.535 Cr against</li> </ul>	

S N	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status RMD
							<p>estimate of Rs. 4.47 Cr.</p> <ul style="list-style-type: none"> <li>• LOA issued to M/s Lepton Engg. Pvt Ltd on 30.06.2017. Contract signed on 16.10.2017.</li> <li>• Boom conveyor and mast cleaning, Head boom leveling and staircase handrail maintenance work completed in Jan'18.</li> <li>• Vertical Mast has been positioned. Boom erection in progress. Boom erection completed in May'18 and Counter weight Boom erection completed in Jun'18. Lubrication and hydraulics completed in Sep'18. Cable tray erection completed in Oct'18. Order for Tail pulley (under Scope of SAIL) placed on 05.10.2018 and received at site on 08.11.2018.</li> <li>• Mechanical, Hydraulic and lubrication related jobs completed except belt laying and erection of gear box.</li> <li>• Party to obtain Stability and Rigidity certificate from DGMS approved agency.</li> <li>• Review meeting held with M/s Lepton Projects Pvt. Ltd. on 14.02.2019.</li> <li>• Order placed for LT motor. LT Motor received at Bolani and shifted to MIOM on 25.06.2019.</li> <li>• Trial run of Boom conveyor, luffing and Operator's cabin taken on 29-30.07.2019.</li> <li>• A2Z solution completed the test required for Stability and Rigidity on 19.12.2019. The report was submitted to DGMS on 03.01.2020 and permission to operate the Reclaimer has been granted.</li> <li>• The Reclaimer has been operated on load on 05.02.2020.</li> </ul>
	Power Augmentation & Replacement of 11kV OH Line for Pump Houses (Pkg-2)	Sterling & Wilson	3.80 Gross – 4.11	3.80	10.06.10	June'11/ <b>Jul'13</b>	<ul style="list-style-type: none"> <li>• CC issued on 31.01.2014.</li> <li>• FAC issued on 10.10.2014</li> </ul>
	Upgradation of Loading system (Pkg-3)						
	Upgradation of Loading Conveyors from 2000 TPH to 3000 TPH (pkg - 3A)  (Up gradation of all Loading conveyors to 3000 tph; Upgradation of Belt feeders to 3000 tph; Related junction houses, chutes, hoists to be upgraded).	Power Max	15.80 Gross – 17.00	14.75	06.10.10	May12 / <b>May'14</b>	<ul style="list-style-type: none"> <li>• S/d of Loading Section was taken from 08.04.2014 to 07.05.2014.</li> <li>• After replacement of Loading plant conveyors (05 nos.), loading section put into operation from 08.05.2014.</li> <li>• On 02.06.2014, Expert group from Heavy Maintenance (Elec) of RSP visited MIOM for alignment of heavy motors/ gear boxes of drive system of Loading Conveyors. The</li> </ul>

S N	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status RMD
							<p>vibrations generated from the motors/gearboxes were found to be within acceptable range.</p> <ul style="list-style-type: none"> <li>• Air blaster (12 nos.) in both the hoppers (bins) completed along with air pipe line. Commissioning of compressor, air blaster is under progress.</li> <li>• Belt Feeder 419 erected and put into operation on 06.06.2018. Feeder handed over on 24.08.2018.</li> <li>• Meeting held on 17.01.2019 between CET, RMD, EOM and Contractor to address issues related to operation of BF 419.</li> <li>• Feeder 419 is operating successfully.</li> <li>• Belt Feeder 418 installed. Teething troubles being sorted out.</li> </ul>
	Supply and Installation of 3000 TPH Wagon Loader (Pkg-3B)	Elecon	5.93 Gross – 6.36	5.00	26.08.10	Mar'12/Nov'14	<ul style="list-style-type: none"> <li>• PAC issued on 06.11.2014.</li> <li>• Load Trial runs commenced from 08.12.2014. Wagon loader put into commercial operation since 13.12.2014.</li> <li>• Modification/strengthening of bend beam completed. Canopy work above VCB panel and job of counter weight of wagon loader completed.</li> </ul>
	<b>Enhancement of production capacity of Kiriburu Iron Ore Mines (from 4.25 MTPA to 5.5 MTPA)</b>		96.59 Gross – 106.54	77.98		Sept'12/ <b>(Jun'13 - Mine Expansion completed)</b>	<ul style="list-style-type: none"> <li>• Expansion facilities including Instrumentation, SCADA &amp; PLC system completed.</li> </ul> <p><b>Balance packages and status:</b></p> <ul style="list-style-type: none"> <li>• Dismantling, shifting, erection and commissioning of Cone crushers from RSP to KIOM (Pkg 1B) - M/s HEC <ul style="list-style-type: none"> <li>- All 04 Crushers (250 TPH) dismantled and transported from RSP.</li> <li>- One Quaternary crusher erected in Jan'14. Tested successfully on full load after installation of succeeding screen on 06/07/2016.</li> <li>- Shut down of twelve days for Dry circuit starting from 20.12.2015 taken for installation of Secondary Crusher, 8B. Installation &amp; commissioning completed on 07.01. 2016.</li> <li>- For replacement of Secondary Crusher, 8A, shutdown was taken on 16.02.2017; Crusher installed and put into operation on 17.03.2017.</li> </ul> </li> </ul>



S N	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
							<ul style="list-style-type: none"> <li>- All 03 Crushers (2 Secondary + 1 Quaternary) are in operation.</li> <li>- 01 Balance Crusher stacked at KIOM</li> <li>• <b>Dust Suppression System</b> : LOA placed on 31.12.2015 on M/s Dust Solution system at Rs. 1.78 Cr (Gross). Contract Signed with M/s Dust Solution System on 21.01.2016. Design Engg. completed and most of the equipment supplied. Piping work for water and compressed air line at discharge points nearing completion. Erection of equipment like compressor, pumps, air receiver, all electricals can be started after completion of DSS building. Dust Suppression system tested at Hopper on 30.01.2019. Testing at other discharge points under progress. Dust suppression system is to be linked with SCADA.</li> <li>• Construction of DSS building (M/s Hanuman Enterprises) - Erection of columns up to lintel level completed, Scaffolding and reinforcement cutting / bending for roof beam &amp; slab is being done along with brick work. Plastering is in progress. Gate erected in Sept '18.</li> <li>• PAC issued on 02.05.2019.</li> </ul>	

#### AMR Schemes

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
	<b>Installation of Tertiary Crusher at Meghahatuburu Iron Ore Mines</b>  <u>Issues</u> <ul style="list-style-type: none"> <li>• Due to poor deployment of manpower at site, the pace of progress is very slow.</li> <li>• Engineers Notice issued to M/s Heavy Engineering Corporation on 16.03.2015.</li> <li>• No manpower was at site from 13/03/2015 to 20/03/2015 due to expiry of labour license of their sub contractor.</li> <li>• Sub-contractor of M/s HEC had stopped work</li> </ul>	HEC	30.85 Gross – 32.35	29.97	26.10.11	Mar'13 / Nov'20	<ul style="list-style-type: none"> <li>• Basic Engg. completed. Detailed Engg. is in progress (98% complete). Delivery of 96.49% Mechanical &amp; 82.50% Electrical equipment completed. 82.25% RCC work completed.</li> <li>• Party mobilized resources on 28/08/2013.</li> <li>• All excavation work completed.</li> <li>• Party has mobilized Heavy duty crane (de-assembled parts). Assembly of crane done.</li> </ul>	

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
	<p>at site in July'15 as they had not received extension letter from HEC. The jobs at site were resumed by them in Aug'15.</p> <ul style="list-style-type: none"> <li>Progress of work is very poor due to non deployment of suitable and sufficient manpower at site.</li> <li>Finalization of shutdown plan due to production requirement.</li> <li>Non-serious approach of M/s. HEC towards the progress of job despite taking up the matter with highest authorities.</li> <li>Meeting held with HEC on 23.10.2018 wherein HEC committed to complete the job by Mar'19. Meeting held with Director, HEC for expediting the progress of job.</li> <li>Sub-contractor for sheeting, painting and flooring job to be finalised by HEC through RPN (as informed by HEC).</li> <li>Meeting held with CMD, HEC on 12.07.19.</li> <li>M/s. HEC has taken RPN against the sub-contractor and the order for civil and structural jobs has been placed on alternate agency by M/s. HEC.</li> </ul>						<ul style="list-style-type: none"> <li>Inspection of Tertiary crusher (Cone) done on 21/11/2015. Clearance given to HEC for supply of Crusher.</li> <li>All Crusher components received at site. Structural fabrication and erection is in progress.</li> <li>Civil work for take-up of JH-1 and JH-2 is in progress.</li> <li>All 16 nos. equipment footings completed in Sep'16. Erection of 8 out of 10 nos columns completed. Top portion of balance 2 columns which was held-up due to crane access problem completed in Jan'17. Crusher main frame erected in Jul'17.</li> <li>For Electrical sub-station building, all 17 columns completed. All plinth beam &amp; columns casting completed by 30.06.2017. Casting of roof slab and Brick work completed. All panels installed in Electrical room in Jun'18</li> <li>For Compressor house, Casting of plinth beam completed and Casting of 1<sup>st</sup> lift of all 08 columns above plinth level completed. All plinth beam &amp; columns up to lintel level casted. Roof casting done on 31.07.2017. Equipment foundation inside compressor building completed.</li> <li>EOT Crane erected. Testing of EOT Crane completed in Jun'18.</li> </ul> <p><u>Crusher Building</u></p> <ul style="list-style-type: none"> <li>Major Civil Work relating to crusher foundation, crusher building column, JH, Conveyors, equipment foundation completed. Structural erection is in progress – Erection of screen support structure and side runner of main building is in progress.</li> </ul> <p><u>ECR</u></p> <ul style="list-style-type: none"> <li>Change Order for Electrical room relocation approved by Competent Authority. Change order for extra</li> </ul>	

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Expenditure up to Sep'20 (Rs. Crore)	Effective Date of Contract	Schedule (Likely/Actual)	Status RMD
							<p>work issued to the party on 10.06.16.</p> <ul style="list-style-type: none"> <li>• Major equipment (Crusher, Screens, EOT Crane, Transformer, Motor) supplied. Both the screens erected. Crusher feed bunker erected.</li> <li>• Major Civil Work relating to crusher foundation, crusher building column, JH-1, JH2, Conv.306E, Conv.306N, equipment foundation such as screens completed.</li> <li>• Work related to ECR Room completed.</li> <li>• DGMS approval for charging HT lines obtained on 01.04.2019. HT lines charged.</li> <li>• No-Load integrated trial run done on 10.10.2019. Vibrations observed during operation of Crusher.</li> <li>• Integrated trial taken on no-load on 28.02.2020.</li> <li>• Load trial taken on 29.02.2020.</li> <li>• Associated jobs like sheeting and flooring, drain, painting work in advanced stages of completion.</li> <li>• A committee has been formed for issuance of PAC. Load trial taken on 16.06.2020 for PAC where there was an issue with PLC. PLC engineer visited site on 24.08.2020 to rectify the PLC related issue. However, the issue was not rectified. HEC Engineer to visit.</li> <li>• All Drain work except electrical building completed.</li> <li>• 99% sheeting completed. Balance to start.</li> </ul>

## Coal Mines

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
1	<p><b>Development of Tasra Coal Block</b></p> <ul style="list-style-type: none"> <li>Development of Tasra is primarily dependent on: <ul style="list-style-type: none"> <li>Getting vacant possession of 900 Ha of land falling under seven villages (Rohraband, Domgarh, Tasra, Het Kandra, Chasnalla, Upper Kandra and Chakchitahi) in phases to develop the mine as per approved Mining Plan.</li> <li>Relocation of Project Affected Families (PAFs).</li> </ul> </li> <li>With the enactment of LARR 2013 with effect from January 2014, the impact is as follows: <ul style="list-style-type: none"> <li>The amount of Rs.163.27 Cr. approved for Land Acquisition in Feb'09 by SAIL Board has now increased to Rs. 2494.67 Cr. (as in May'17)</li> <li>The amount of Rs.219.53 Cr. approved by SAIL Board in Mar'10 towards Rehabilitation and Resettlement Scheme is now estimated at Rs. 1745.01 Cr. (as in May'17)</li> </ul> </li> </ul>	M/s Lanco	MDO route	23.09.13	MDO shall be in force for 28 years from effective date of contract (including 2 years of construction period)	<ul style="list-style-type: none"> <li>CMSA (Coal Mine Services Agreement) signed on 23.09.13. M/s Lanco Infratech submitted performance guarantee of Rs.50 Cr. as per terms of contract.</li> <li>Agenda Note in regard to Land Acquisition and Rehabilitation &amp; Resettlement subsequent to enactment of LARR 2013 was discussed with Operations, Finance, Estate Management and CRMG. Queries raised by Finance sent to CRMG.</li> <li>Tasra Washery (3.5 MTPA) : EIA / EMP report submitted to JSPCB. Public hearing held on 30.01.2016. Assistant District Magistrate (Law &amp; Order), Regional Officer (JSPCB) and Officers from Collieries Division, SAIL were present at the site. Following issues were prominently pronounced by local villagers: <ul style="list-style-type: none"> <li>The fate of the earlier employees of Bihar State Industrial Development Corporation (BSIDC) who have not received salary since closure of plant.</li> <li>The expectation of local villagers on issue of employment.</li> <li>Activities of CSR in and around the area under consideration.</li> </ul> </li> <li>Public hearing on Draft R&amp;R prepared by Administrator R&amp;R (Asstt. Collector, Dhanbad) held on 18.02.16. The same was chaired by Asstt. Collector (AC), Dhanbad. District Land Acquisition Officer (DLAO), Dhanbad and Circle Officer, Jharia, Assistant District Magistrate (Law &amp; Order), Regional Officer (JSPCB) and Officers from Collieries Division, SAIL were also present.</li> <li>The Draft R&amp;R Scheme was explained to the public by DLAO and subsequently opinions were sought from general public. Amongst various issues raised, the issue of employment in SAIL was the most demanded. Finally, AC Dhanbad concluded that their opinions and demands will be put forward to the R&amp;R Committee for final deliberation and conclusion.</li> <li>A proposal for revision of Land Acquisition cost and R&amp;R scheme with financial implication for Development of Tasra Open Cast Project received in May'16, with cost as under: <ul style="list-style-type: none"> <li>Rs. 2444.26 Cr for Land acquisition</li> <li>Rs. 1434.33 Cr for R&amp;R</li> </ul> </li> <li>MECON was appointed as Consultant on 12.05.16 to inter-alia undertake Techno-commercial study of Tasra, Sitanala and Parbatpur Coal Blocks.</li> <li>MECON submitted revised financials for Tasra project on 20.07.16, which was sent to Corporate Finance for examination.</li> <li>In the meantime, the proposal was returned to RMD on 19.08.16, as the following outstanding issues were to be addressed before processing further: <ul style="list-style-type: none"> <li>Issues related to land acquisition raised by Lanco</li> <li>Issue of Power of Attorney by SAIL to M/s Lanco</li> </ul> </li> </ul>	

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
							<ul style="list-style-type: none"> <li>- Permission sought by M/s Lanco regarding execution of Contract through 100% subsidiary assignee</li> <li>- Status of Legal opinion of the above issues raised by M/s Lanco</li> <li>- Availability of land for the project in view of the proposed JV between NTPC and FCIL</li> <li>- Status of investigation on allocation of coal blocks by external agency</li> </ul> <p>Work order placed on MECON by Collieries Division on 06.02.2017 for preparation of Techno-Commercial viability report for Tasra Open Cast Project.</p> <p>A proposal seeking approval of BSC received from RMD on 23.03.2017 for the following:-</p> <ul style="list-style-type: none"> <li>• Revision of Commercial operation date from 22.09.2015 to 01.03.2019 in the CMSA</li> <li>• Extension of Contract period upto 28.02.2045</li> <li>• Methodology of reimbursement of Land and R&amp;R cost and other cost towards Land Acquisition and R&amp;R</li> <li>• Authorizing COD to incorporate modifications in terms and conditions of NIT and contract</li> </ul> <p>Observations on the revised proposal sent to Collieries Division on 29.04.2017, Replies received on 19.05.2017 with revised proposal. The proposal was discussed in the meeting of COD on Raw materials held on 22.05.2017 and COD recommended to process the proposal by PAG for further consideration of Project Committee of Board / SAIL Board. PAG meeting held on 25.05.2017. After receipt of replies from Collieries Division, proposal was submitted for consideration of Project Committee of SAIL Board (PCB) on 29.06.2017. PCB desired the following :</p> <ul style="list-style-type: none"> <li>• As the Lanco contract is being investigated by CBI, the status of the same may be obtained from CBI.</li> <li>• SAIL may examine the present financial position of Lanco in detail.</li> <li>• Legal opinion on the options available to SAIL for exiting from the Contract may be taken.</li> </ul> <p>The proposal was also discussed in the SAIL Board meeting held on 30.06.2017. It was desired that the proposal may be resubmitted through BSC after addressing the above issues.</p> <p>Agenda note for consideration of BSC / Board received from Collieries on 26.09.2017, indicating actions taken by Collieries on observations / directions of BSC / Board. COD desired that the proposal be put-up to BSC / Board for information. Accordingly, file was sent to RMD on 24.10.2017. Updated Agenda note incorporating actions taken on the observations of BSC / Board received on 03.02.2018, which was processed for consideration of BSC on 06.02.2018.</p> <p>Queries / observations of Dir (Fin) sent to ED (Collieries) on 16.02.2018. Revised Agenda note received from collieries on 05.03.2018 for consideration of BSC on Projects / SAIL Board. Proposal discussed in BSC meeting held on 27.03.2018. Agenda note put-up for consideration of BSC on 26.04.2018.</p>

SN	Package	Party	Cost in Cr Net of CENVAT (FE)	Effective Date of Contract	Schedule (Likely/Actual)	Status	RMD
						<p>NCLT, Hyderabad bench declared M/s LITL (Lanco Infratech Limited) as insolvent on 27.08.2018. SAIL submitted BG for encashment to Indian Overseas Bank, Hyderabad on 24.09.2018 and also served notice for termination of agreement to M/s LITL. BG has been encashed and an amount of Rs 50 crores has been credited to SAIL's account on 30.11.2018. Notice served to M/s LITL for vacating the mine premises.</p> <p>Proposal for Appointment of new MDO for Development of Tasra OCP is under consideration.</p>	

# **AMR Projects under Implementation**

**कार्यान्वयन के अंतर्गत**

**एएमआर योजनाएँ**

## **BSP – Development of Rowghat Deposit: (Permanent Barracks at 21 Locations)**

1.	<b>PROJECT:</b> Construction of Permanent Barracks at 21 locations for Security Forces deployed for Dalli-Rajhara-Rowghat Rail Line and Rowghat Mining Project.	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Apr'14
ii)	Original approved date of commissioning	Apr'15
iii)	Now anticipated	<b>Nov'19 (17 locations completed) &amp; balance de-scoped.</b>
3.	<b>COST (Rs. in Cr.)</b>	
i)	Original approved	Rs.188.93 Cr
ii)	Expenditure till Mar'20	Rs.145.56 Cr.
iii)	Expenditure in 2020-21	Rs.9.87 Cr.
iv)	Cumulative expenditure up to Sep'2020	Rs.155.43 Cr.

#### 4. **BENEFITS ENVISAGED**

Infrastructure for security forces will facilitate 'Dalli- Rajhara – Rowghat Rail Line and Rowghat Mining Project'

#### 5. **PHYSICAL PROGRESS OF WORK**

SN	Package	Party	Cost	Expenditure	Eff. Dt of contract	Schedule (Likely/ Actual)
1	<b>Development of Rowghat Deposit: (Permanent Barracks at 21 Locations)</b>	M/s Modern Prefab Ltd., Gurgaon	<b>NOC:</b> Rs.188.93 Cr. <b>Gross:</b> Rs.188.93 Cr.	Rs.155.43 Cr.	30.04.14	<b>Nov'19 (17 locations permanent barracks construction completed)</b> Balance 4 locations de-scoped form scope of contractor.
<b>STATUS</b>						
<ul style="list-style-type: none"> <li>• LOI issued to M/s Modern Prefab Ltd., Gurgaon on 31.03.14 and contract signed on 30.04.14.</li> </ul> <p>Out of 21 locations,</p> <ul style="list-style-type: none"> <li>• Work of permanent barracks at was taken up in 18 locations.                             <ul style="list-style-type: none"> <li>○ All 17 locations, handed over to Security Forces.</li> <li>○ At 18<sup>th</sup> location forces have been deployed on 16.01.2019 in temporary barracks.</li> <li>○ De-scoping/short closure of the contract was processed at BSP as the party has refused to take-up work beyond 17<sup>th</sup> location due to inordinate delay in handing over of clear site by State Govt.</li> </ul> </li> </ul>						

#### 6. **CONSTRAINTS FACED:**

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>• Issuance of Forestry clearances and delay in tree cutting work by State Government authorities had delayed the start of work.</li> <li>• M/s Modern Prefab to expedite completion of water supply and sanitary works.</li> <li>• Security Forces are yet to be deployed in 3 out of 21 locations.</li> <li>• M/s Modern Prefab has refused to undertake construction of barracks beyond 17<sup>th</sup> location due to extra ordinary delay in handing over the site by the State Govt. A separate contract envisaged for balance locations.</li> <li>• CG Police has given consent to construct the balance barracks &amp; for which they are submitting the estimate. Award of contract to CG Police Housing Corporation, Raipur is being considered.</li> <li>• A request letter is also given to CMD CG Police housing corporation, Raipur on 27.06.19 for submitting the estimate for construction of barracks.</li> <li>• CG police Housing Corporation has submitted estimate on 22.08.19.</li> <li>• SAIL/BSP deposited Rs.1.0 Cr. (out of Rs 4.0 Cr.) as advance with CG police Housing Corporation for the construction of 01 Barracks on 21<sup>st</sup> Nov, 2019.</li> <li>• CG police Housing Corporation had issued tender for the subject work on 01.02.2020.</li> <li>• Work awarded to M/s Bansal industries on 15.05.2020. Work under progress in Khorgaon security camp. As per demand raised by CGPHC Rs.2.0 Crores was deposited in July 2020.</li> </ul>	<ul style="list-style-type: none"> <li>• BSP continuously pursued concerned Authorities for Rail line work and also deployment of Security Forces.                             <ul style="list-style-type: none"> <li>○ Meeting held at MHA on 20.01.16.</li> <li>○ Meeting held with IG BSF on 08.02.16.</li> <li>○ Meeting held at MHA on 21.10.16.</li> </ul> </li> <li>• BSP is pursuing M/s Modern Prefab to expedite finishing jobs.</li> <li>• These issues were also taken up in regular project coordination meetings with SP, Kanker.</li> <li>• All 17 locations, handed over to Security Forces.</li> <li>• The work for balance location has been planned through Chhattisgarh Police housing corporation (CGPHC), Raipur.</li> </ul>

#### 7. **PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Coordinator	Project Manager
Shri Samir Swarup, CGM (Mines)	Shri V C Reddy, GM (Rowghat Mines)	Shri Jay Prakash GM (Rowghat Mines)

## **BSP – Up-gradation of Stoves of BF-4**

1.	<b>PROJECT:</b> Up-gradation of Stoves of Blast Furnace No.4	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Apr'13
ii)	Original approved date of commissioning	Dec'14
iii)	Now anticipated	Jan'21
3.	<b>COST (Rs. in Cr.)</b>	
i)	Original approved	Rs.70.65 (Net of Cenvat credit Rs.5.30 Cr)
ii)	Expenditure till Mar'20	Rs.50.95 Cr.
iii)	Expenditure in 2020-21	Rs.0.29 Cr.
iv)	Cumulative expenditure up to Sep'2020	Rs.51.24



**4. BENEFITS ENVISAGED**

BF- 4 was commissioned on 8<sup>th</sup> Dec'1964 and has working volume of 1489 m<sup>3</sup> (Useful Volume of 1719 m<sup>3</sup>). It has 4 stoves designed for a Hot Blast Volume (HBV) of 2600 Nm<sup>3</sup>/min at Hot Blast Temperature (HBT) of 1050°C and pressure of 2.5 kg/cm<sup>2</sup>.

Due to several operational problems like falling of combustion chamber bricks, shell cracking etc, it has become extremely difficult to maintain the average HBT beyond 975°C. In spite of mid-term repairs & capital repairs, the stoves were not able to deliver HBT of 1050°C. In 2010-11, the stoves of BF No.4 achieved HB temperature of 918°C.

Up-gradation of stoves to HTS (Hoogoven's) design hot blast system, suitable for 1200°C hot blast temperature, will facilitate increased injection of auxiliary fuel, reduction of coke rate and, at the same time, increased hot metal production would be possible. With HTS design, the stoves will have longer life of minimum 20 years.

**5. PHYSICAL PROGRESS OF WORK**

SN	Package	Party	Cost	Expenditure	Eff. Dt of contract	Schedule (Likely/ Actual)
1	<b>Up-gradation of Stoves of BF-4 to HTS Design</b>	M/s Evo Tech	<b>NOC:</b> Rs.18.44 Cr.	Rs.10.12 Cr.	16.03.13	Dec'14/Jan'21
<p><b>STATUS:</b></p> <ul style="list-style-type: none"> <li>It has been decided to take up up-gradation of Stove nos.10, 11 &amp; 12 instead of nos.11, 12 &amp;13 as originally envisaged.</li> <li>RPN notice issued on 13.11.17 to M/s EVO Tech, but further RPN action not initiated against the party.</li> <li>Earthwork 900 / 1900 m3 completed.</li> <li>350 / 377 m3 concreting completed.</li> <li>960 / 995 T Technological structures fabricated and 930 /995 T erected.</li> <li>All 160 T Mechanical equipment supplied and 145 / 160 T erected.</li> <li>4700/7299 T Refractory erection completed.</li> <li>Furnace was to be "Blown-in" with upgraded stoves, however, the party i.e., M/s Evo Tech is not deploying enough resources.</li> </ul> <p>Details of the stove status is as under:</p> <ul style="list-style-type: none"> <li>Stove-11: 1<sup>st</sup> Stove was handed over to contractor after 18 months.</li> <li>Stove- 11 &amp; 10 has been made ready for test/ trials.</li> <li><b>Stove-12:</b> Shell and Dome erection has been completed. <ul style="list-style-type: none"> <li>Supply of Silica refractory &amp; chequered bricks for Stove-12 has been completed</li> <li>Welding of Shells and refractory work were hampered as the party M/s Evotech has shown his inability to do balance works.</li> <li>De-scoping of balance refractory Erection of Hot blast system, balance supply &amp; erection works of mechanical, utility done and awarded to alternate agencies.</li> </ul> </li> </ul> <p><b>Balance work:</b></p> <ul style="list-style-type: none"> <li><u>Refractory erection work:</u> awarded to M/s HSCL. Refractory lining work is likely to start in 2<sup>nd</sup> week of October, 2020. Completion is expected in 3 months.</li> <li><u>Balance Mechanical &amp; Utility work</u> is awarded to M/s Sanmathi on 27.5.2020. Major erection work has been completed.</li> <li><u>Shell welding work &amp; structural work:</u> is awarded to M/s Vijay Enterprises on 17.08.2020. Internal Shell welding work has been completed; external welding work is under progress. Leak test has been done on 29.09.2020.</li> </ul> <p><b>- Stove- 12 is likely to be made ready by Feb'21.</b></p>						
2.	<b>Supply &amp; Installation of Electrical, Instrumentation &amp; Automation System</b>	M/s L&T (now M/s Schinder)	<b>NOC:</b> Rs.8.36 Cr.	Rs.6.66 Cr	<b>24.04.13</b>	Jan'21
<p><b>STATUS</b></p> <ul style="list-style-type: none"> <li>L-2 Network (R-1) approved on 11.03.14.</li> <li>All BE Drawing &amp; DE Drawing submitted &amp; approved.</li> <li>61.5/ 64T Electrical Equipment Ordered, 61.5/64 T supplied &amp; 30/64 T erected.</li> <li>No load trial run of both motors No.1 &amp; 2 of CA Fan completed.</li> <li>Erection of conduits about 70 % completed. Cable laying completed and PCC, MCC 1, 2 &amp; 3, PDB, LT panel for CA Fan house charged.</li> <li>Fixing of LCB under progress.</li> <li>Erection of earthing plates of lightning arrestor in Chimney completed.</li> <li>Cabling work for stove valves started at dome area of stove.</li> </ul> <p><b>CONSTRAINTS FACED</b></p> <ul style="list-style-type: none"> <li>M/s L&amp;T reluctance to supply the balance items like lighting fixture, network switches required for stove automation. Shop has agreed to provide lighting fixture, network switches because party denied for supply.</li> </ul>						

**6.CONSTRAINTS FACED:**

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li><b>Shutdown of BF-4 was taken on 08.01.18 for 150 days.</b></li> <li>RPN notice issued on 13.11.17 to M/s EVO Tech, but further RPN action not initiated against the party.</li> <li>Work delayed due to arbitration proceeding. Arbitration decision has come in June'18 and is in favor of the party. BSP has accepted the delay in handing over of site for stove erection.</li> <li>M/s Evotech is repeatedly failing to commitment schedule and not deploying adequate resources.</li> <li>M/s Evotech has raised issue of price escalation payment against the award.</li> <li>Party has not taken action for refractory erection work of Stove-12.</li> </ul>	<ul style="list-style-type: none"> <li>After arbitration decision, party is being pursued to improve resource at site.</li> <li>Procurement of refractory from other source has been arranged; revised TS finalized for supply of balance refractory.</li> <li>Refractory inspection for third stove completed.</li> <li>Due to long storage, the insulation bricks are damaged in store. These materials have been taken on returnable basis from RED (procured for stove-19 of BF-6).</li> <li>Refractory erection work of Stove-12 along with supply of auxiliary material has been de-scoped and it is under process of award to alternate sub-contractor.</li> <li>Other balance jobs of Mechanical &amp; Utility, balance job of ACVS and balance refractory erection of HBS (BM &amp; HBM) are de-</li> </ul>

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>Due to impact of COVID-19 Lockdown, completion has been rescheduled.</li> </ul>	scoped from M/s Evotech. Awarding of balance works is under progress.

#### 7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:

Project Owner	Project Coordinator	Project Manager
Shri. S R Suryavanshi CGM (Blast Furnace)	Shri Srinivas Guju GM (Blast Furnace)	Shri N K Das GM (Projects)

### **BSP – Installation of Cast House Defuming system in Blast Furnace No.7**

1.	<b>PROJECT:</b> Installation of Cast House De-fuming system in Blast Furnace No.7	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Aug'15
ii)	Original approved date of commissioning	Aug'16
iii)	Now anticipated	Jan'21
3.	<b>COST</b> (Rs. in Cr.)	
i)	Original approved	Rs.21.68 Cr. (NoC of Rs.1.81 Cr.)
ii)	Expenditure till Mar'20	Rs.17.39 Cr
iii)	Expenditure in 2020-21	Rs.0.00 Cr
iv)	Cumulative expenditure up to Sep'2020	Rs.17.39 Cr

#### 4. BENEFITS ENVISAGED

Installation of Cast House De-Fuming System at both the cast houses of BF-7 is required for a clean cast house during metal tapping operation and to meet the statutory norms laid down by the MoEF for work zone dust level in cast houses.

#### 5. PHYSICAL PROGRESS OF WORK

SN	Package	Party	Cost	Expenditure	Eff. Dt of contract	Likely Completion
1	Installation of Cast House Defuming system in Blast Furnace No.7  <b>Capacity:</b> 600,000 m <sup>3</sup> /h (minimum)	Consortium of M/s Uniseven Engg. and M/s Soil & Enviro, Kolkata	<b>NOC:</b> Rs.21.68 Cr. <b>Gross:</b> Rs.23.49 Cr.	Rs.17.39 Cr	21.08.15	Jan'21
	<p><b>STATUS</b></p> <ul style="list-style-type: none"> <li>4250/4300 M<sup>3</sup> earthwork &amp; 890/928 M<sup>3</sup> concreting completed.</li> <li>805/990 T equipment including technical structure supplied &amp; 651/968 T Technical structure erected.</li> <li>887/1077 T Mechanical equipment supplied &amp; 717/1077 T Mechanical equipment erected.</li> <li>All 35 T Electrical Equipment supplied &amp; 0/35 T erected.</li> <li>ESP erection &amp; alignment completed. Completion of erection of Inlet duct of ESP. Insulation work of ESP balance.</li> <li>ID Fan foundation and its erection of ID Fan completed. Shed over ID Fan completed.</li> <li>7 out of 9 foundations of duct support from outside the cast house to ESP inlet completed</li> <li>Electrical building completed.</li> <li>Placement of ESP Equipment completed.</li> <li>Two engineering notices have been issued to the party.</li> <li>Suction duct of Fan and its shed structure columns erected.</li> <li>Erection of duct support structure between Rly. Track is in progress.</li> <li>Diversion of existing nitrogen line along Cast house completed.</li> <li>Excavation and casting of Chimney foundation completed. Back filling around stack completed.</li> <li>Erection of Three nos. bracket for duct support along the cast house completed.</li> <li>9 Ton electric motor of ID Fan erected.</li> <li>Assembly of structural support under progress.</li> <li>Laying of cabling under progress.</li> <li>Erection of chimney partly completed.</li> <li>Erection of outlet duct of ESP completed. Erection of monorail &amp; supporting structure over ESP completed.</li> <li>Erection of duct along the cast house of BF-7 is in progress.</li> <li>Again an engineering notice was given on 14.01.2020 and party committed to mobilize to start work at the earliest. However, no response has been received from party.</li> <li><b>15 days RPN notice issued to the party on 14.05.2020. However, the Party submitted the schedule for completion of balance work by 30.11.2020. Work under progress.</b></li> </ul>					

#### 6. CONSTRAINTS FACED:

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>Initially duct from cast house to ESP inlet was envisaged to be supported by cast house columns but at the time of Detail Engineering and several site visit by Consultant, CET suggested to have a separate 5 foundations in between the track for supporting the duct which was approved in June 2017. As the tracks are supplying hot metal ladles from BFs to SMS-II, that has resulted delay in completing the civil foundations.</li> <li>Non-payments to sub-contractor by M/s Uniseven affected the site activities several times.</li> <li>Delay in payment due to implementation of GST in July, 2017.</li> <li>Delay in redesigning of incoming duct and its ducts support civil foundation between railway tracks.</li> <li>Due to poor performance of contractor, two times engineering notice issued..</li> </ul>	<ul style="list-style-type: none"> <li>Party is being pursued for expediting the work.</li> <li>Interest bearing loan sanctioned.</li> <li><b>RPN notice issued.</b></li> </ul>

**7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

<b>Project Owner</b>	<b>Project Coordinator</b>	<b>Project Manager</b>
Shri S R Suryavanshi CGM I/C (Blast Furnace)	Shri Srinivas Guju GM (Blast Furnace)	Shri N K Das GM (Projects)

**BSP – Setting up of Static facility for Environmentally Sound Management of PCB**

1.	<b>PROJECT:</b> Setting up of Static facility for Environmentally Sound Management of PCB	
2.	<b>SCHEDULE:</b>	
i)	Zero Date (Pkg-1)	Sep'16
ii)	Original approved date of commissioning (Pkg-1)	Oct'17
iii)	Now anticipated (Pkg-1)	Dec'20
3.	<b>COST (Rs. in Cr.)</b>	
i)	Original approved	Rs.136.37 Cr. (Rs.30.79 Cr.-For Pkg-1)
ii)	Expenditure till Mar'20	Rs.28.17 Cr
iii)	Expenditure in 2020-21	Rs.0.15 Cr
iv)	Cumulative expenditure up to Sep'2020	Rs. 28.32 Cr

**4. BENEFITS ENVISAGED**

Polychlorinated Biphenyls (PCBs) are a class of synthetic organic chemicals used in many industries. These chemicals are categorized as Persistent Organic Pollutants (POPs) under an international agreement called 'Stockholm Convention on Persistent Organic Pollutants (POPs)'. The Republic of India signed the Stockholm Convention on POP's on 14<sup>th</sup> May 2002 and ratified it on 13<sup>th</sup> January 2006.

The facility is being set up for disposal of PCB transformers. SAIL/BSP is setting up the scheme and equipment supplied & erected by M/s Ramky under UNIDO funding.

**5. PHYSICAL PROGRESS OF WORK**

SN	Package	Party	Cost	Expenditure	Eff. Dt of contract	Likely Completion
1	Building and Infrastructure (Package-1)	M/s HSCL, Bhilai	<b>Basic:</b> Rs.28.68 Cr. <b>Gross:</b> Rs.30.79 Cr.	Rs.28.32 Cr	15.09.16	Dec'20
	<b>STATUS</b>					
	<ul style="list-style-type: none"> <li>11805 /12000 M<sup>3</sup> earthwork completed.</li> <li>4910 / 5000 M<sup>3</sup> concreting completed.</li> <li>1294 / 1300 M<sup>3</sup> brickwork completed.</li> <li>248.5/250 T structure fabricated and 248.5/250 T erected.</li> <li>6/7 T Mechanical equipment ordered.</li> <li>Drain casting Completed.</li> </ul>					

**6. CONSTRAINTS FACED:**

<b>CONSTRAINTS / ISSUES FACED:</b>	<b>CORRECTIVE ACTION TAKEN</b>
<ul style="list-style-type: none"> <li>Delay in getting the statutory clearances like Building Permission &amp; height permission for water tanks.</li> <li>Work was stopped since July, 2019 due to issue of land permission for building construction.</li> <li><b>Due to impact of COVID-19 lockdown, completion has been rescheduled</b></li> </ul>	<ul style="list-style-type: none"> <li>Clearance Certificate from Central Ground Water Authority received.</li> <li>Party is being pursued for expediting the work.</li> <li>Application for the land Permission was submitted to the Director (Town &amp; Country planning), Raipur on 27.04.2020 for approval. NOC was received in July, 2020.</li> <li>Further, application has been submitted to Risali Nagar Nigam in Sep'20 for Building permission to start the job; reply is awaited.</li> </ul>

**7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

<b>Project Owner</b>	<b>Project Coordinator</b>	<b>Project Manager</b>
For Pkg-1 Shri R G Gupta GM I/C (Env.MD)	For Pkg-1 Shri K Praveen, GM (Env.MD)	Shri B K Sinha GM (Projects)
For Pkg-2,3,4,5,6,7&8 Shri P.K.Sarkar,CGM(Electrical)	For Pkg-2,3,4,5,6,7&8 Shri S.K.Ahad Abdul,GM (PSD)	

**BSP– Installation of ESP's as replacement of Multi cyclones for all 4 nos. of Sinter Machine of SP-II**

1.	<b>PROJECT:</b> Installation of ESP's as replacement of Multi cyclones for all 4 nos. of Sinter Machine of SP-II	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Oct'16
ii)	Original approved date of commissioning	Sep'18
iii)	Now anticipated	Feb'21
3.	<b>COST (Rs. in Cr.)</b>	
i)	Original approved	Rs. 46.58 Cr. (Net of Cenvat credit Rs.4.14 Cr)
ii)	Expenditure till Mar'20	Rs.10.28 Cr
iii)	Expenditure in 2020-21	Rs.6.86 Cr
iv)	Cumulative expenditure up to Sep'2020	Rs.17.14 Cr

#### 4. BENEFITS ENVISAGED

Multicyclones were designed for stack emission level of 150 mg/Nm<sup>3</sup>. As per pollution norms, stack emission level should be less than 50 mg/Nm<sup>3</sup>. In order to meet the required pollution norms Installation of ESPs in all 4 nos. of Sinter Machines of Sinter Plant-2 was needed.

#### 5. PHYSICAL PROGRESS OF WORK

SN	Package	Party	Cost	Expenditure	Eff. Dt of contract	Likely Completion
1	Installation of ESP's as replacement of Multi cyclones for all 4 nos. of Sinter Machine SP-II	M/s GEA Process Engineering (India) Pvt.	<b>NOC:</b> Rs.46.58 Cr. <b>Gross:</b> Rs.50.82 Cr.	Rs.17.14 Cr	04.10.16	Feb'21
<b>STATUS</b> <ul style="list-style-type: none"> <li>ESP#1 - Civil work completed. Structure erection under progress (180 MT erected).</li> <li>ESP#2 – Civil work completed. Structure erection under progress.</li> <li>ESP#3 – Civil work completed. Piling completed. 7 out of 8 pile cap completed.</li> <li>ESP#4 – Piling work is under progress. 4 Pile completed.</li> <li>MCC room &amp; compressor house – RCC Completed. Finishing work under progress.</li> <li>Silos 1 &amp; 2 – Support structure, Shell &amp; Hopper erected. Staircase &amp; platform erection under progress (98 MT erected).</li> <li>1000/1800 MT steel structures for Silos 1 &amp; 2 and ESP # 1 &amp; 2 and ESP 3&amp;4 supplied.</li> </ul>						

#### 6. CONSTRAINTS FACED:

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>Civil work stopped for 3 months as initial load test of pile was not done.</li> <li>Delay in fixing of agency for conducting initial load test pile.</li> <li>No deployment of agency /manpower in areas where work fronts was available.</li> <li>ESP-3&amp;4: Civil work affected due to infringement of slurry pipelines of SMS-II.</li> <li>Shutdown awaited from Shop SP-II for diversion of existing pipe line for ESP1 &amp; 2 and ECR Building.</li> <li><b>Due to impact of COVID-19 lockdown, completion has been rescheduled</b></li> </ul>	<ul style="list-style-type: none"> <li>Due to extremely slow progress, 1<sup>st</sup> Engineers notice was issued in Jul'18 after which party has started mobilizing the resources at site.</li> <li>2<sup>nd</sup> engineering notice issued to the party in Nov'18, however the progress of work is still very slow. 3<sup>rd</sup> engineering notice issued to the party in July'19, however the progress of work is still very slow.</li> <li>4<sup>th</sup> engineering notice issued to the party in Jan'20, however the progress of work is still very slow.</li> <li>A meeting was held on 04.01.2019 with M/s GEA. In this meeting, party has agreed to restart the work immediately and also agreed to engage more agencies in the areas where work fronts is available.</li> <li>Shutdown to be provided by shop during Oct/Nov'2020 for 1 month for commissioning of ESP-1 and subsequently for ESP-2.</li> </ul>

#### 7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:

Project Owner	Project Coordinator	Project Manager
Shri Biswaranjan Palai GGM (SP-2)	Shri R Bijurkar GM(SP-2)	Shri S.S. Moury, DGM (Projects)

### BSP–Treatment & Recycling of Waste water of Outlet-C

1.	<b>PROJECT:</b> Treatment & Recycling of Waste water of Outlet-C	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Jun'19
ii)	Original approved date of commissioning	Aug'20
iii)	Now anticipated	Dec'20
3.	<b>COST (Rs. in Cr.)</b>	
i)	Original approved	Rs.42.00 Cr. (Net of ITC Rs.7.00 Cr)
ii)	Expenditure till Mar'20	Rs.20.96 Cr.
iii)	Expenditure in 2020-21	Rs.12.90 Cr.
iv)	Cumulative expenditure up to Sep'2020	Rs.33.86 Cr.

#### 4. BENEFITS ENVISAGED

The proposed project is intended to reduce waste water discharge from BSP through treatment and recycling, progressively aiming towards "zero discharge". The proposed project is also for enhanced conservation of water resources to reduce specific water consumption for industrial use.

#### 5. PHYSICAL PROGRESS OF WORK

SN	Package	Party	Cost	Expenditure	Eff. Dt of contract	Likely Completion
1	Treatment & Recycling of Waste water of Outlet-C	M/s Effwa Infra & Research Pvt Ltd., Mumbai	<b>Net of ITC:</b> Rs.42.20 Cr. <b>Gross:</b> Rs.49.20 Cr.	Rs. 33.86 Cr.	20.06.19	Dec'20
<b>STATUS</b> <ul style="list-style-type: none"> <li>11315/11852 M3 Earthwork completed.</li> <li>2795/3800 M3 Concreting completed.</li> <li>8540/11500 RM pipe laying completed.</li> <li>Civil works for Pump House no. 1, Clariflocculator, Water Treatment &amp; Circulation plant are in progress.</li> <li>Supply of 800 mm dia.and 400 mm dia. ERW pipes are completed. Approx. 3000 Meters of pipeline are laid at site. RCC Hume pipe 1000 mm dia. and 400 mm dia. Supply completed. HT cable complete LOT supplied. Transformers are received at site.</li> <li>HT Cable laying under progress.</li> </ul>						

**6. CONSTRAINTS FACED:**

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>• Slow progress in drawings for Pipeline laying work.</li> <li>• Lack of security at PH No.1 area to facilitate construction activities and threat of theft/pilferages of equipments /costly materials etc.</li> <li>• <b>Work was affected due to COVID-19 pandemic.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Work started after lock down on 22.04.2020 with maintaining social distancing and other safety measures at site with approx. 40% manpower.</li> <li>• PH -1 work is planned to be executed in day light i.e., till 5.30 PM due to security reasons.</li> <li>• Laying of Pipeline through SECR tunnels has been discussed with SECR officials and in-principle agreement is done. Formal permission from Raipur Division is yet to obtain.</li> <li>• The permission has been obtained recently and pipeline laying work shall be taken up now.</li> </ul>

**7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Coordinator	Project Manager
Shri C K Narayanan, GM I/c (WMD)	Shri S. Bhardwaj, GM (WMD)	Shri D K Pouriya, GM (Project-Utility)

## **DSP – Installation of new Rotary Hearth Reheating Furnace at Wheel & Axle plant**

1.	<b>PROJECT:</b> Installation of new Rotary Hearth Reheating Furnace at Wheel & Axle plant	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Feb'15
ii)	Original approved date of commissioning	May'16 (15 months)
iii)	Now anticipated	Hot trial started in <b>Jul'19</b>
3.	<b>COST</b> (Rs. in Cr.)	
i)	Original approved	Rs. 26.65 Cr; Cenvat benefit of Rs. 3.54 Cr.
ii)	Expenditure till Mar'20	Rs.33.09 Cr.
iii)	Expenditure in 2020-21 up to Sep'20	Rs0.84 Cr.
iv)	Cumulative expenditure up to Sep'20	Rs.33.93 Cr.

### 4. BENEFITS ENVISAGED

The scheme of Installation of new Rotary Hearth Reheating Furnace (20tph) is one of the projects identified under Centre of Excellence (COE) schemes for improvement of the performance of the existing W&A Plant. The existing furnace has outlived its designed life and the performance has deteriorated over the years. Thus, it has been considered essential to replace existing rotary hearth reheating furnace by a new one with state of art technology at a new location as advance replacement of the existing furnace. This will enhance the production level to the rated capacity on long term and consistent basis.

### 5. PHYSICAL PROGRESS OF WORK

SN	Package	Party	Cost (Party Wise)	Expenditure Rs. Cr.	Eff. Dt of contract	Sch (Likely/ Actl)
i	Installation of new Rotary Hearth Reheating Furnace at Wheel & Axle plant	Consortium of M/s Wesman Engineering & M/s HaldiaNirman Projects Ltd.	<b>NOC:</b> Rs.18.33 Cr. <b>Gross:</b> 20.95 Cr. <b>NOC:</b> Rs.5.88 Cr. <b>Gross:</b> 6.8 Cr.	-	28.02.15	May' 16/ Jul' 19
<b>Furnace Area :</b> <ul style="list-style-type: none"> <li>• PAT of all facilities of New Rotary Hearth furnace have been completed in segments by 22.02.2019</li> <li>• Major PAT Defect liquidation Completed.</li> <li>• Integrated cold trial started from 25.3.19 with insertion of cold blanks into the furnace. Cold trials have been completed on 12.4.19.</li> <li>• Charged cold blocks removed from furnace on 16.05.19.</li> <li>• PAC issued on 03.06.19 w.e.f. 20.05.19.</li> <li>• Furnace gas charged. Hot trial started from 09.07.19, in progress</li> <li>• 123Nos blocks charged on 31.7.2019</li> <li>• Cumulative Discharge: 490Nos</li> <li>• Liquidation of defects observed during hot trial is in progress.</li> <li>• <b>M/s Wesman has intimated that the Burner Blocks will be supplied by 18.01.2020 and commissioning of the furnace will be taken up by end of January 2020.</b></li> <li>• <b>Replacement job of burner blocks is completed. Other preparatory jobs are in progress.</b></li> <li>• Drying out cycle of refractories started from 17.03.2020.</li> <li>• M/s Wesman have informed their inability to start the hot trials from 24.03.2020, which was scheduled, owing to the declaration of lockdown by the government of West Bengal w.e.f. 23.03.2020 to 27.03.2020.</li> <li>• So, the furnace will be cooled after the dry out cycle.</li> <li>• <b>M/s Wesman has submitted the schedule for hot trial and subsequent commissioning test.</b></li> <li>• <b>Furnace lighted up on 28.7.2020 and hot trial started on 03.08.2020. Problem encountered in Rail Charger operation and subsequently trial was discontinued and Furnace was water sealed. Electrical expert from OEM of Rail Charger M/s Dango visited site from 17.08.2020 for three days. Hydraulic oil filtration was carried out and trial of rail charger was taken after that. Hydraulic expert of M/s Dango visited site from 25.08.20 and checked operation of the rail charger. During the visit, operators' training on hydraulics was imparted on 25 – 26.08.20.</b></li> <li>• <b>Furnace lighted up on 05.09.2020. Hot trials started on 14.09.2020 and completed on 17.09.2020. 721 nos. of blocks charged and discharged.</b></li> <li>• <b>Furnace was jointly inspected by representatives from Refractory department, WAP Department and Project Department on 25.09.2020 and cracks were observed in the burner blocks. Action plan by M/s Wesman was sent to WAP for their views. WAP and Refractory department have opined that all the burner blocks have to be replaced with new burner blocks of desired composition. This has been communicated to M/s Wesman. Also, sample of cracked burner block has been sent to RCL for analysis.</b></li> </ul>						

### 6. CONSTRAINTS FACED:

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>• Delay in completion of Design and Engineering</li> <li>• Delay in Equipment supply</li> <li>• Inadequate site mobilisation</li> </ul>	

### 7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:

Project Owner	Project Coordinator	Project Manager
Shri D.V. Jagannath GM (W&A)	Shri Rajesh Jaiswal DGM (Oprn), WAP	Shri R.K Mondal DGM (Projects)

## DSP – Power Evacuation for 2x20 MW New Power Plant

1.	<b>PROJECT:</b> Power Evacuation Package for 2x20 MW New Power Plant at DSP.	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Mar'17
ii)	Original approved date of commissioning	Aug'18 (16 months)
iii)	Now anticipated	Mar'21(Linked to NPP)
3.	<b>COST</b> (Rs. in Cr.)	
i)	Original approved	Rs. 51.71 Cr; Cenvat benefit of Rs. 3.90 Cr.
ii)	Expenditure till Mar'20	Rs.48.01 cr.
iii)	Expenditure in 2020-21 up to Sep'20	Rs.1.67 cr.
iv)	Cumulative expenditure up to Sep'20	Rs.49.68 Cr.

#### 4. BENEFITS ENVISAGED

After completion of Ongoing Modernisation& Expansion Plan, Category-I and Emergency load of the Plant is likely to increase to around 33.5 MW. Capacity of OPP cannot be augmented to meet this enhanced requirement. Therefore, 2x20 MW Power Plant was envisaged to be set up vide a 50:50 JV between SAIL and NTPC, at DSP. The scheme of Power Evacuation is required for the evacuation of Generated power from the New Power Plant.

#### 5. PHYSICAL PROGRESS OF WORK

SN	Package	Party	Cost (Party Wise)	Expenditure Rs. Cr.	Eff. Dt of contract	Sch (Likely/ Actl)
i	Power Evacuation Package for 2x20 MW NPP at DSP	M/s L& T	<b>NOC:</b> Rs.45.35 Cr. <b>Gross:</b> 49.26 Cr.	49.68	22.4.17	Aug'18 (Likely-Mar'21*-Linked to NPP)
<ul style="list-style-type: none"> <li>• Contract signed on 08.05.17 w.e.f 22.04.17.</li> <li>• First Kick-off meeting held on 22-23.05.17 at DSP.</li> <li>• L-2 network has been approved</li> <li>• Design &amp; engineering: BE – completed, DE –completed.</li> <li>• RCC work in progress                             <ul style="list-style-type: none"> <li>- New Power House at Old Power Plant completed (RCC- 1250 m<sup>3</sup>).</li> <li>- Overhead Cable Route from NPP to Sajara Substation completed (RCC - 384 m<sup>3</sup>)</li> <li>- Overhead Cable Route from Sajara Substation to New Power House completed (RCC - 306 m<sup>3</sup>)</li> <li>- LT Substation to BOF completed (RCC - 350 m<sup>3</sup>)</li> <li>- LT Substation at CCP completed (RCC - 350 m<sup>3</sup>)</li> <li>- Switchyard foundation completed (RCC – 60 m<sup>3</sup>)</li> </ul> </li> <li>Finishing civil work in progress at New Power House at Old Power Plant, LT Substation at BOF and LT Substation at CCP</li> <li>• Structural work                             <ul style="list-style-type: none"> <li>- 558/ 660 t of fabricated structures received at site</li> <li>- 490/ 660 t of structures erected (erection of Cable gallery/ gratings in progress)</li> </ul> </li> <li>• Electrical Work in progress                             <ul style="list-style-type: none"> <li>- Preparatory civil job (rod cutting, bending) for 33kV bay extension at MRS in progress</li> <li>- Casting of column for Bus Post Insulator for 33kV bay extension at MRS in progress</li> <li>- Major cable laying completed, testing jobs is in progress.</li> <li>- 33 kV Cable Jointing in progress</li> </ul> </li> <li>• After lot of follow up the SCADA RTU panels are delivered at site recently on 06th Jan'2020.</li> <li>• Schematic Testing of 11KV &amp; 33 KV panel is completed.</li> <li>• Testing of 33KV outdoor equipment CT, PT &amp; Breaker at MRS outdoor yard completed.</li> <li>• Oil Filtration of 4 Nos. oil type 10 MVA transformer complete; testing completed.</li> <li>• Central Electricity Authority inspection carried out on 29.02.20 &amp; approval for charging of electrical installation for Power Evacuation package is done 02.03.20.</li> <li>• <b>New Power House (NPH) charged on 28.08.2020.</b> <ul style="list-style-type: none"> <li>• 1 MVA Transformer Charging at NPH                                     <ul style="list-style-type: none"> <li>- T104P - 1 MVA Trafo charged on 22.09.20.</li> <li>- T105P - 1 MVA Trafo charged on 29-09-20</li> </ul> </li> <li>• ACDB at NPH - Charged on 26.09.20.</li> <li>• 2 MVA Transformer Charging at CCP - Pre-commissioning activities is in progress.</li> <li>• 2 MVA Transformer Charging at BOF - Pre-commissioning activities is in progress.</li> </ul> </li> <li>• HT Modification Job - HT 6, HT 14, New Sajara Sub-station - Measurement of existing Bus bar of respective panel were taken on 23.09.20.</li> </ul>						

#### 6. CONSTRAINTS FACED:

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>• Interfacing of unforeseen underground services (Cables, Pipes etc.) –</li> </ul>	Additional trestles were added which were not envisaged.

#### 7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:

Project Owner	Project Coordinator	Project Manager
Shri J.P. Mukherjee GM (Elect.)	Shri D Baidya DGM (PMD)	Shri G.K Guha DGM (Projects)

## DSP- Replacement of Converter Shells together with Bottom Stirring System and Installation of Secondary Emission Control in all the Three Converters of Steel Melting Shop

1.	<b>PROJECT:</b> Replacement of Converter Shells together with Bottom Stirring System and Installation of Secondary Emission Control in all the Three Converters of Steel Melting Shop	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Dec'18
ii)	Original approved date of commissioning	Sep'20 (20 months from effective date of contract)
iii)	Now anticipated	Mar'21
3.	<b>COST</b> (Rs. in Cr.)	
i)	Original approved	Rs.263.36 Cr; net of ITC of Rs.41.13 Cr.
ii)	Expenditure upto Mar'20	Rs.61.39 Cr
iii)	Expenditure in 2020-21 up to Sep'20	Rs.68.51 Cr
iv)	Cumulative expenditure up to Sep'20	Rs.129.90 Cr.

#### 4. BENEFITS ENVISAGED

Due to prolonged usage of the Converters, its physical condition has deteriorated and breakdown hours have increased hampering production. Hence, replacement all three Converter shells, trunnion and their suspension systems along with bearings, pedestal assemblies and Converter drive systems with electricians is being done to enhance the reliability of Converters and reduce downtime. Also, installation of Converter Bottom Stirring System together with revamping of the Converter vessel is being taken up to accelerate blowing cycle for better kinetics & homogenization, reduce ferro-alloy consumption, leading to higher metallic yield and improved Converter lining life.

As a Pollution Control measure, Centralized Electrostatic Precipitator (ESP) based Secondary Emission Control System is being installed in all the 3 Converters to control the fugitive emissions within norms at the working platform level.

#### 5. PHYSICAL PROGRESS OF WORK

SN	Package	Party	Cost (Party Wise)	Expenditure Rs. Cr.	Eff. Dt of contract	Sch (Likely/ Actl)
i	Main Package Gross Rs.257.23 cr.	Consortium of SMS Group GmbH, Germany & SMS India Pvt Ltd, New Delhi	€ 6,122,635  <b>Net of ITC:</b> Rs.164.02 Cr. <b>Gross: 194.44 Cr.</b>	39.00  84.96	30.1.19	Mar'21 (#6 months from date of shutdown of first Converter, started from 10.09.20)
<ul style="list-style-type: none"> <li>• Contract signed on 31.1.2019, effective date of Contract - 30.1.19.</li> <li>• Kick-off meeting held on 25-17.2.19.</li> <li>• LC has been opened.</li> <li>• L-2 Schedule has been approved.</li> <li>• <b>Drawing Status:</b> 371 out of 373 drawings are approved /approved with note till date. An engineering meet was held at DSP from 21-22.01.2020 for across the table approval of pending drawings. 2 nos. drawings pertaining to HVAC are pending.</li> <li>• <b>Civil Work</b></li> <li>• <b>ESP Area</b> -Piling complete (66 nos.); pedestal foundation casting completed, Front ready for structural erection</li> <li>• <b>Stack</b>-concrete for wall upto 7.3 m completed. Wall shuttering is in progress above 7.3 m.</li> <li>• <b>Gas Mixer</b> -Piling complete (14 nos.); 3 out of 4 pedestal casting completed till date</li> <li>• <b>Dust Silo</b> - Piling complete (8 nos.)</li> <li>• <b>Duct Support</b> – Piling complete (16 nos.); preparatory job for Pile Cap in progress.</li> <li>• <b>Common Duct Support</b> - Piling in progress(50/92 complete)</li> <li>• <b>ID Fan</b>-Piling in progress(11/45 nos. complete)</li> <li>• <b>ECR Building</b> -Foundation complete; Casting of first floor slab complete on01.02.2020</li> <li>• <b>Mechanical Converter Area:</b></li> <li>• 2nd Converter Assembly - Trunion ring grinding for edge preparation is in progress.</li> <li>• Converter lifting, Shifting &amp; positioning done.</li> <li>• Converter alignment in progress</li> <li>• <b>Secondary Emission Control</b></li> <li>• Shaft seal fixing of ID fan no.-3 in progress.</li> <li>• Undergirder erection in progress.</li> <li>• fitment of flange with duct in progress.</li> <li>• Assembly of duct TW-2 to BR-1 in progress.</li> <li>• Saddle erection of TW-3 in progress.</li> <li>• Welding of outside duct going on.</li> <li>• <b>Structural</b></li> <li>• For Converter-1 Driving and non-driving side bearing fixing completed.</li> <li>• Parts for converter proper for second converter arrived at site and their assembly is in progress.</li> <li>• Fabrication of ESP support str., Common Duct &amp; Silo, Stack Str., Gas Mixer and its supporting structure has been started. Fabrication of DOG house, 9m + charging and tapping duct is on M/s Sulekha, Vizag.</li> <li>• <b>Refractory</b></li> <li>• Refractory for Converter-1 received at RHI warehouse in Kolkata.</li> </ul>						



SN	Package	Party	Cost (Party Wise)	Expenditure Rs. Cr.	Eff. Dt of contract	Sch (Likely/ Actl)
	<b>Electrical &amp; Automation</b> <ul style="list-style-type: none"> <li>IC raised for PLC Panel, DC released for tilt drive motors</li> </ul>					
ii.	Power Supply Package for Secondary Emission Control	IEE Projects India Ltd.	<b>Net of ITC:</b> Rs.6.20 Cr. <b>Gross:</b> 7.23 Cr.	5.94	6.2.19	Feb'21
	<ul style="list-style-type: none"> <li>Contract signed on 6.2.2019, effective date of Contract - 6.2.19</li> <li>Kick off meeting held on 12-13.2.19.</li> <li>L2 Schedule approved.</li> <li>Drawing Status: 85 out of 87 drawings are approved /approved with note till date.</li> <li>Extension Bay at MRS: All foundations and cable trench completed.</li> <li>Transformer Room: Painting completed. Steel mesh door erected. Garland drain completed for two sides. Earth pit completed.</li> <li>Cable Gallery Trestle Foundation: All the four foundations casting completed on 14.03.2020</li> <li>Structural Job: Cable gallery erected and cable laid upto transformer room.</li> <li>Lattice structure at MRS extension bay completed.</li> <li><b>Electrical Job:</b> <ul style="list-style-type: none"> <li>Cable laid for 100 % of the cable route. Back filling of the cable trench completed.</li> <li>10 nos. of straight through Jointing completed.</li> <li>Wall mounted isolator erected at Transformer room.</li> <li>Transformer placed at the pedestal and fitting of its auxiliaries completed.</li> <li>Illumination of Transformer room completed.. Earth pit for Transformer room completed. Earth mat inside transformer room is completed.</li> <li>Transformer, NGR and NIFPS installed. Switchyard equipment erected. Earth mat extension completed. Power Bus erected at MRS.</li> <li>Erection of electrical Equip.: Erection of Electrical equipment at MRS, transformer, NGR, wall mounted isolator at transformer room completed.</li> </ul> </li> </ul>					

#### 6. CONSTRAINTS FACED:

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
NIL	NIL

#### 7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:

Project Owner	Project Coordinator	Project Manager
GM (Steel)	DGM (SMS)	Shri P. Kumar DGM (Projects)

### **DSP – Procurement of One no. Steam Turbine Rotor Assembly for Turbo-Blower Nos. 1-4 in Old Power Plant**

1.	<b>PROJECT:</b> Procurement of One no. Steam Turbine Rotor Assembly for Turbo-Blower Nos. 1-4 in Old Power Plant	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Feb'19
ii)	Original approved date of commissioning	Jan'20 (44 weeks)
iii)	Now anticipated	Dec'20
3.	<b>COST</b> (Rs. in Cr.)	
i)	Original approved	Rs. 23.78 Cr; Net of ITC of Rs. 3.80 Cr.
ii)	Expenditure upto Mar'20	-
iii)	Expenditure in 2020-21 up to Sep'20	Rs.0.00 Cr.
iv)	Cumulative expenditure up to Sep'20	Rs.0.00 Cr.

#### 4. BENEFITS ENVISAGED

Turbine rotors for TB Nos. 1 to 4 are identical. Of the six turbine rotors, four are in service and two are kept as spare. Four out of six turbine rotors are more than 55 years old. At present, TB No. 1, 2 & 4 are in operation. Overhauling of TB-2 was taken up in 2015 and TB-1 in 2018. TB-3 is under overhauling and overhauling of turbines for TB-4, which is in continuous operation since 1997-98, is due. Out of two spare turbine rotors, one was re-conditioned and readied with new Blower Rotor Assembly and was used for overhauling of TB-1. The second spare turbine rotor which has been removed from TB No.2 has been reconditioned and re-bladed and is being utilised for overhauling of TB-3. For overhauling of TB No.4, which will be taken up after TB-3 is ready, it is essential to procure one complete bladed turbine rotor assembly.

#### 5. PHYSICAL PROGRESS OF WORK

SN	Package	Party	Cost	Expenditure Rs. Cr.	Eff. Dt of contract	Sch (Likely/ Actl)
i	Procurement of One no. Steam Turbine Rotor Assembly for Turbo-Blower Nos. 1-4 in Old Power Plant	M/s Siemens UK	<b>NOC:</b> Rs.23.78 Cr. <b>Gross:</b> 27.58 Cr.	Nil	15.3.19	Sch - Jan'20 Now Likely - Dec'20
	<ul style="list-style-type: none"> <li>LOA issued on 27.2.19</li> <li>Work Order issued on 15.3.19</li> <li>LC opened on 21.12.19 after submission of PBG by the party. The PBG submitted is valued at 5% of the contract price.</li> <li>Delivery lead time to FOB UK Seaport is within 44 weeks from date of opening of LC. However, the same is getting delayed as M/s Siemens is still creating hindrance in the process of LC with flimsy issues.</li> </ul>					

SN	Package	Party	Cost	Expenditure Rs. Cr.	Eff. Dt of contract	Sch (Likely/ Actl)
	<ul style="list-style-type: none"> <li>• Manufacturing in progress by M/s Siemens.</li> <li>• M/s Siemens informed that machining operations of wheel fitting may get delayed due to mandates related to COVID-19 and requested DSP for an extension to the shipment date from Nov.'20 to Jan.'21.</li> </ul>					

**6. CONSTRAINTS FACED:**

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN

**7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Coordinator	Project Manager
HoD Old Power Plant	-	-

## RSP- Power Evacuation at 220 kV from NSPCL to MSDS-IV

1.	<b>PROJECT : Power evacuation at 220 kV from NSPCL to MSDS-IV</b>	
2.	<b>SCHEDULE</b>	
i)	Zero Date	Nov'19
ii)	Original approved date of commissioning	May'21 (17 months from effective date of contract)
iii)	Now anticipated	May'21
3.	<b>COST (In ₹Cr.)</b>	
i)	Original approved (Stage-II):	Rs.51.28 Crore (net of ITC of Rs.8.22 Crore)
ii)	Expenditure till Mar'20	-
iii)	Expenditure in 2019-20 up to Sep'2020	Rs. 5.02 crore
iv)	Cumulative expenditure up to Sep'2020	Rs.5.02 crore

#### 4. BENEFITS ENVISAGED

It will help RSP to meet additional power requirement due to proposed new units such as Slab Caster-4, Pellet Plant etc. The project is a technical necessity for power evacuation and to increase the operation flexibility & reliability of power system.

Further, in absence of this link, power generated at new 250 MW unit of NSPCL can only be used in New HSM and surplus power shall be exported to the grid through MSDS-VII, whereas power shall have to be imported from grid to meet requirement of the existing plant. Simultaneous import and export of power shall lead to financial loss to RSP due to transmission charges payable to the transmission utility and losses on account of transmission.

Execution of proposed 220 kV double circuit line between NSPCL & MSDS-IV is therefore important to directly supply power generated by 250 MW unit to existing areas of RSP and avoid payment of such transmission charges and losses.

#### 5. PHYSICAL PROGRESS OF WORK

Empowered Committee in its meetings held on 16.11.19 and 22.11.19 has accorded Stage –II approval for subject proposal. LoA issued on 23.11.2019 to M/s UPRNN Ltd., Ghaziabad.

- Contract signed on 04.12.2019.
- Kick off meeting held on 05.12.19.
- First & second Engg. Meeting held on 18.12.19 & 08.01.2020 respectively.
- Third engg. meeting along with review by ED (Projects) held on 27.02.2020.
- L-2 schedule submitted by party and approved.
- Design engg is under progress, BE: 17/22 nos & DE: 75/136 nos completed till date.
- Transmission line cable survey has been completed.
- Engineering discussion through tele-conferencing and scrutiny of drawings is under progress.
- Soil investigation has been completed.
- Ordering of Equipment has started. All Lightning Arrestors- 12nos, BPI insulator - 57 nos. supplied. 220 KV HT cable- 5.55 kms supplied.
- 586/617 cbm excavation and 91/137 cbm concreting has been completed. Scope shall be revised after approval of pending drawings.
- Civil work is under progress in MSDS-IV and cable termination yard with local manpower. 23 nos of equipment foundation completed at MSDS-IV. Excavation work for 2nos. of Isolater and in Cable termination Yard is in progress.

#### 6. CONSTRAINTS FACED:

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
Submission of civil engineering drawaings have to expedited for all areas	Discussed during review meeting and asked to expedite.
Delay w.r.t. L2 network	During review meeting party has been asked to prepare and submit resource mobilization plan to make up the delay w.r.t. L2. It is decided to explore the engagement of local contractors for executing jobs at parallel fronts to expedite the project execution.
Non-availability of labour – Due to COVID-19 pandemic, labour for site work could not be arranged from nearby states as there is a requirement of quarantine for 14 days.	Site Work is being taken up with locally available labour. Progress is slow.

#### PROJECT OWNER/ PROJECT CO-ORDINATOR/ PROJECT MANAGER:

Project Owner	Project Co-ordinator	Project Manager
Shri M.K.Bhaskaran, GM I/c (Power Distribution)-	Shri D.K. Bhanja, GM (Power Distribution)	Shri S. Soren, GM (Projects)

## RSP- Installation of New Hot Strip Mill (3 Mtpa)

1.	<b>PROJECT : Installation of New Hot Strip Mill</b>	
2.	<b>SCHEDULE</b>	
i)	Zero Date	Apr'15
ii)	Original approved date of commissioning	Apr'18 (35 months from effective date of contract)
iii)	First Coil rolled	Jan'2020
3.	<b>COST (In `Cr.)</b>	
i)	Original approved (Stage-II):	Rs.3127.30 Cr. (net of cenvat benefit of Rs. 294.66 Cr.) (RCE under approval)
ii)	Expenditure till Mar'2020	Rs.3291.28 Cr.
iii)	Expenditure in 2020-21 up to Sep'2020	Rs 171.82 Cr.
iv)	Cumulative expenditure up to Sep'2020	Rs.3463.10 Cr.

#### 4. BENEFITS ENVISAGED

Under the subject scheme, RSP envisages to install a new state-of-the-art New Hot Strip Mill of 3.0 Mtpa capacity to ensure competitive product quality and to enrich the product range with wider strip, higher coil weight & higher grades of products.

Hot Strip Mill will have following broad parameters:

Strip thickness	:	1.2-25.4 mm
Strip width	:	725-2150 mm
Maximum coil weight	:	35t
Specific coil weight	:	max. 22.5 kg/mm
Rated capacity	:	3.00 Mtpa (input slabs) 2.94 Mtpa (output i.e. HR coils)

A new sheet shearing line of 400,000 tpa capacity will also be installed for making sheets/plates from the HR coils produced through the new Mill. The proposed sheet shearing line can produce the sheets/plates in various customized lengths. After commissioning and stabilization of the new Hot Strip Mill, the existing HSM shall be closed down. However, the existing sheet shearing line will continue to be utilised for producing hot rolled sheets.

#### 5. PHYSICAL PROGRESS OF WORK

S N	Package	Party	Cost (Party Wise)	Expenditure (2015-19 + 2020-21- up to Sep'2020 Rs. cr	Eff. Dt of contract (LOA)	Sch (Likely/ Actl)
1	Soil Investigation & Survey	Swayin Engineering Associates Pvt. Ltd	• Rs.0.14 crore	-	(22.07.13)	<b>Completed</b>
<p><b>STATUS</b> ✓ Job completed and report was handed-over to the bidders of main package before submission of their revised price-bids.</p>						
2	<p><u>Enabling work</u> <u>Package-II-A:</u> Construction of Boundary Wall</p> <p><u>Package-II-B:</u> Site Preparation</p> <p><u>Package-II-C:</u> Construction of New Road</p>	<p>Gorakhnath Construction Pvt. Ltd</p> <p>Separate order to HSCL &amp; Niagara Metals Limited</p> <p>HSCL- 70% of the scope of work(nearly 10.5 lakh cbm)</p> <p>Niagara Metals Limited-balance 30% of the scope of work (nearly 4.5 lakh cbm)</p> <p>Sarada Enterprises, Rourkela</p>	<p>• Rs. 23.45 Cr.</p> <p>• Rs.28.14 Cr. &gt; <u>HSCL</u>- Rs.19.70 Cr., &gt; <u>Niagara Metals Limited</u>- Rs. 8.44 Cr.</p> <p>• Rs.8.23 Cr.</p>	<p>28.04</p> <p>38.86</p> <p>7.6</p>	<p>15.12.14 (26.11.14)</p> <p>26.03.15</p> <p>16.10.14 (Sep'14)</p>	<p>14.06.16 18 months <b>(completed-Apr'17)</b></p> <p>25.03.16 12 months</p> <p>15.10.15 <b>(completed-Jun'16)</b></p>
<p><b>STATUS</b></p> <ul style="list-style-type: none"> <li>• <u>Construction of Boundary Wall (Completion-14M):</u> Total 2.8km <b>completed in Apr'17.</b></li> <li>• <u>Construction of New Road (Completion-12M):</u> <b>Total 2km completed in Jun'16.</b></li> <li>• <u>Site Preparation (Completion-12M):</u> Due to incorrect soil investigation report, scope of grading work was increased by 168-175%. For minimum additional grading work required to hand-over site to L&amp;T, change orders of ~ Rs.7.5 Cr. have been placed on M/s HSCL &amp; M/s Niagara separately on 09.02.16. <b>Work in these areas has been completed.</b></li> </ul> <p>Open tender for the balance extra quantity (~ Rs.18 cr) was issued in mid-Mar'16 and offers of 7 bidders were opened on 08.04.16. TAR received from CET, RA done on 16.02.17, 5 parties participated and CET evaluation report received on 27.02.17. M/s HSCL emerged as L-1 bidder, LOA placed on HSCL on 11.08.17 and contract signed on 12.09.17.</p> <p>As no work started by HSCL, RPN was issued. For 50% jobs from HSCL's scope, package retendered and job awarded to M/s Sharda Enterprise on 29.08.18, work has completed.</p> <p>Progress by M/s HSCL was very slow and scope has been further reduced from HSCL scope and given to M/s Sharda Enterprise, work. <b>Job completed.</b></p>						
3	Rail Track work	M/s Laxmi Enterprises	<b>Evaluated cost</b> : Rs.23.798 Crore(net of ITC of Rs.3.55 crores)	30.48	21.02.18	Aug'19 (18 months) Nov'2020
<p><b>STATUS</b></p>						

S N	Package	Party	Cost (Party Wise)	Expenditure (2015-19 + 2020-21- up to Sep'2020 Rs. cr	Eff. Dt of contract (LOA)	Sch (Likely/ Actl)
						<ul style="list-style-type: none"> <li>Consultancy contract was awarded to M/s RITES. M/s Rites has submitted draft DPR in July'15. TS submitted by M/s Rites on 06.01.2016.</li> <li>Tendered out by RSP on 20.08.2016 with. TOD on 20.09.2016; extended up to 30.09.2016; as only 2 offers received. TOD further extended to 17.10.2016.</li> <li>As insufficient offers received even after extension of TOD to 17.10.16, after taking the view of RITES, RSP has retendered this package on 21.01.17 with TOD on 14.02.17. Bids from ARSS, Bhubaneshwar; Jhaharia Nirman, Bilaspur; Lalkshmi Enterprises, Chakradharpur; S N Sharma, Angul; Suresh Chandra Gupta &amp; Co, Jhansi were received and evaluated. Price bids opened on 06.09.17. TC held and LOA placed 21.02.18 on M/s Laxmi Enterprises at a cost of Rs. 23.798 crores, (net of ITC on GST of Rs.3.55 crores). Work started, track laying for slab yard has been completed and under progress for coil yard (1km balance).</li> <li>Progress is very slow due to COVID 19 outbreak.</li> </ul>
4	Main Package	Consortium of M/s Mitsubishi Corporation, Japan (Leader) and M/s Larsen & Toubro Limited Kolkata	<p><b>Evaluated cost:</b>Rs. 2604.48 Cr. (net of cenvat credit of Rs.294.11 Cr.)</p> <p><b>Total contract price:</b> JPY 10,492.584 million + USD 54.339 million + Euro 32.215 million + Rs.1487.18 cr. (whereas 1 USD= Rs.62.15, 1 JPY=Rs.0.5316, 1Euro=Rs.71.63)</p> <p><b>Break-up of total contract price:</b></p> <ul style="list-style-type: none"> <li>M/s Mitsubishi Corporation, Japan : JPY 10,492.584 million USD 54.339 million Euro 32.215 million</li> <li>M/s L &amp; T : Rs. 1487.18 cr</li> </ul>	3394.55	25.05.15 (27.04.15)	<p>24.04.18 35 months from effective date of contract</p> <p>Contract extended up to <b>20.08.18</b> – Without imposition of LD and up to <b>31.03.20</b> without prejudice to right of recovery of LD</p> <p>Contract extended to <b>Sep'2020</b> without prejudice to right of recovery of LD</p> <p>Contract extended to <b>Jun'2021</b> without prejudice to right of recovery of LD</p> <p><b>Jan'2020 First Coil rolled)</b></p>
	<p><b>STATUS:</b> Site work was suspended from 16.05.16 due to non-receipt EC. EC issued on 15.12.16. Design &amp; Engg, Civil and structural work completed.</p> <p><b>Slab Yard :</b></p> <ul style="list-style-type: none"> <li>All EOT cranes commissioned</li> <li>The tracks for transportation of slabs are ready. RSP has transported slabs to site.</li> </ul> <p>▪ <b><u>Roughing Mill (1 stand) &amp; Finishing mill (7 stand) &amp; Down Coiler:</u></b></p> <ul style="list-style-type: none"> <li>In Roughing Mill, Coupled run of motor and Roll done on 27.11.19.</li> <li>Coupled run of Finishing Mill stands (total 7 nos) started on 02.12.19 and completed on 12.12.19.</li> <li><b>Ghost Rolling started on 16.01.2020</b></li> <li><b>Hot trials started on 29.01.2020.</b></li> <li><b>First coil was successfully rolled on 31.01.2020.</b></li> <li>Statutory clearance of Multi Function Gauge was received on 24.2.2020.</li> <li>Experts are awaited for rolling to resume.</li> </ul> <p>▪ <b><u>Reheating Furnace (RHF) (2 nos):</u></b></p> <ul style="list-style-type: none"> <li>RHF-1 dry out started on 05.11.19. After reaching temperature of 1050 deg C, RHF was under natural cooling and after reaching ambient temperature, inspection done on 21.11.19. Damaged refractory was repaired/ replaced.</li> <li>RHF-1 lighted up on 25.01.2020. After rolling of 1<sup>st</sup> coil, the Furnace is under shutdown. Balance automation jobs are pending due to non-availability of experts.</li> <li>RHF# 2 – Mechanical &amp; refractory job completed. The Furnace was lighted up for dryout on 29.2.2020. After dryout, inspection was done. However, the punch points could not be attended to, due to non-availability of manpower. Automation jobs are to be completed.</li> </ul> <p>▪ <b><u>Roll Shop</u></b></p> <ul style="list-style-type: none"> <li>Erection of all 4 nos. grinders and their testing completed.</li> <li>Erection of autoloader completed.</li> <li><b><u>Balance jobs</u></b> <ul style="list-style-type: none"> <li>Electrical cabling works, trial &amp; testing of auto loader.</li> <li>Commissioning of automatic washing machines for bearing</li> <li>Roll Shop Mangement System loading and linking to MES.</li> </ul> </li> </ul>					

S N	Package	Party	Cost (Party Wise)	Expenditure (2015-19 + 2020-21- up to Sep'2020 Rs. cr	Eff. Dt of contract (LOA)	Sch (Likely/ Actl)
	<ul style="list-style-type: none"> <li>▪ <b><u>Sheet Shearing Line:</u></b> <ul style="list-style-type: none"> <li>➤ Placement done. Alignment, cold trial &amp; testing of Uncoiler, Leveller, Straightner, Stacker etc. to be completed in the presence of commissioning engineers (M/s SarCoil, Spain).</li> </ul> </li> <li>▪ <b><u>Coil Yard</u></b> <ul style="list-style-type: none"> <li>➤ Erection of equipment (coil tilter, coil weighing system etc.) completed. Testing/ commissioning of equipment to be taken up in presence of experts (Indian).</li> </ul> </li> <li>▪ <b><u>Manufacturing Execution System (MES)</u></b> <ul style="list-style-type: none"> <li>➤ Commissioning held up due to non-availability of Chinese experts.</li> </ul> </li> <li>▪ <b><u>Special Instrument</u></b> Foreign experts are awaited in following areas: <ul style="list-style-type: none"> <li>• Commissioning of Multi Function Gauge, experts from UK.</li> <li>• Surface Inspection &amp; Flatness Gauge, experts from Germany.</li> <li>• Commissioning Width gauge, experts from Canada</li> </ul> </li> <li>▪ <b><u>Water System :</u></b> <ul style="list-style-type: none"> <li>➤ Trial &amp; testing of Indirect Cooling Water (ICW) system completed.</li> <li>➤ Direct Cooling Water (DCW) major Mechanical erection completed. Scale pit (part of DCW circuit) trials started.</li> <li>➤ Laminar Cooling Water (LCW) system, water spraying on run out table done. ROT Pump House (part of LCW circuit) - erection of pumps and motors completed. Structural Erection completed.</li> <li>➤ Pumping of input raw water from lagoon pump House - trial run completed. Raw water pump house at Lagoon started Dry run auto sequence trial for Dual Media Filters (DMF) Filtration plant at Water Treatment Plant (WTP) area done and Chiller unit tested successfully. Chiller and compressor are under operation as per requirement.</li> <li>➤ Trial run has been completed for compressor.</li> </ul> </li> <li>▪ <b><u>Electrical</u></b> <ul style="list-style-type: none"> <li>➤ All 90 nos. transformers erected.</li> <li>➤ Two Nos 25 MVA transformers, 4 Nos Dry type transformers, 6.6kV HT board, 2 Nos PCC panels charged at DC ECR.</li> <li>➤ No load trial of Crop Shear was done on 21.11.19. Crop shear motor tripped on over current on 25.11.19. After meggering, the fault was confirmed to be earth fault. Experts from Japan arrived at site on 29.11.2019 and examined the same. The experts had ruled out any repair and committed to replace the same by importing from Japan. The new motor was air lifted from Hitachi, Japan and installed.</li> </ul> </li> <li>▪ <b><u>Power</u></b> <ul style="list-style-type: none"> <li>➤ 25 MW power is available from Nov'18 which is sufficient to take individual testing &amp; trial of any group of equipment.</li> <li>➤ 220 KV Transmission line from Terkera grid charged on 30.10.2019 &amp; power was made available at MSDS-VII of New HSM.</li> <li>➤ 2<sup>nd</sup> 80 MVA transformer connected to 220kV line has been charged on 27.11.19, first transformer was charged earlier.</li> <li>➤ From NSPCL to MSDS -VII, civil work has been completed. Tower erection 37 /39 nos. completed, earlier total 45 nos towers were required, but after rerouting now 39 nos are required. Stringing work 8.065/ 8.7 km completed and balance is under progress.</li> </ul> </li> <li>▪ <b><u>Utility</u></b> <ul style="list-style-type: none"> <li>➤ All the utilities like water, compressed air (for instrumentation), Nitrogen, AC system are available at site.</li> <li>➤ Hook up of mixed gas line with existing mixed gas line was done on 27.09.19 and line has been charged.</li> <li>➤ MOU for spare parts has been signed with M/s Mitsubishi.</li> </ul> </li> </ul> <p>It was planned to restart the Mill in Mar'2020 and subsequently, commissioning was expected in 2<sup>nd</sup> Qtr. of 2020-21. However, due to outbreak of COVID-19, commissioning engineers/experts (Indian/Foreign) left the site.</p> <p>Restricted work at site has resumed slowly since 20.04.2020 with locally available manpower of M/s L&amp;T, however foreign/ Indian commissioning engineers/ experts are still not available at site.</p> <p>Equipment/systems like greasing system, water system, AC &amp; Ventilation system, Electrical installations etc. are being run with the help of L&amp;T manpower for preservation. Systems like Hydraulics, Lubrication, etc. which require engineers from M/s Mitsubishi for running, are being run for preservation of equipment as per the signed operational schedule received from the Consortium on 30.07.2020.</p> <p>To discuss various issues regarding resumption of next phase of operation of the Mill, a meeting through Video Conference was held on 15.09.2020. The meeting was chaired by CEO, RSP and attended by Minister (Economics &amp; Commerce), Embassy of India at Tokyo, Japan along with officials of RSP and Consortium members.</p> <p>The issues related to individual trial runs/Cold trial/Ghost Rolling of the equipment were discussed. The consortium agreed for the operation and suggested step by step action for resumption of cold trial. The protocol sent by RSP on 05.09.2020 is being examined by the consortium. The procedure for checking the interlocks, sensors and procedure of drives/motors will be taken up first.</p> <p>Further, the consortium partner M/s L&amp;T was advised to start deputing their Indian vendors at site to start completion of the installed facilities supplied by them.</p>					

#### 6.CONSTRAINTS FACED:

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>• State Pollution Control Board (SPCB), Odisha has directed RSP on 18.04.16 to stop construction activity due to non-availability of</li> </ul>	<ul style="list-style-type: none"> <li>• ED-Works &amp; ED-Proj discussed the issue with Member-Secretary, State Pollution Control Board (SPCC).</li> </ul>

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
Environmental Clearance. In view of above, work at site has been suspended from 16.05.16 and RSP has given suspension notice to the party, M/s Mitsubishi & Consortium.	<ul style="list-style-type: none"> <li>Public hearing was held earlier on 30.10.15 but the process could not be completed due to issues raised by two groups which had no connection with the proposed new Projects.</li> <li>Public Hearing towards EC was successfully conducted at Rourkela again on 16.06.16 and MoEF &amp; CC's meeting for considering grant of EC was held on 27-29.07.16. EC issued on 15.12.16.</li> <li>Further, Consent To Establish was received on 28.08.16. Material import could be started in Mar'17.</li> </ul>
<p><u>Scale pit &amp; ROT Pump house</u></p> <ul style="list-style-type: none"> <li>Scale Pit &amp; ROT pump house area water logged from 22.07.2017 to 02.10.2017.</li> <li>Incessant rain at site had hampered the progress as rain water ingressed into Scale pit. Work stopped at (-) 17.7 mtr level due to flooding since 5th Aug'18.</li> </ul>	<ul style="list-style-type: none"> <li>Additional dewatering pump of Total 907 HP were installed for dewatering.</li> <li>8 X 60 HP Dewatering pumps were placed in Scale Pit for dewatering. Water taken out. Cleaning work started in scale pit since 29.9.18 to start shuttering and concreting activities.</li> <li>90 HP pumps were installed in Flume Tunnel for dewatering of Reheating furnace &amp; dewatering completed.</li> </ul>
<ul style="list-style-type: none"> <li>On 08.01.2018, no. of cracks (vertical &amp; horizontal) were noticed in the grouting surface in the housing stands. So further erection was suspended.</li> </ul>	<ul style="list-style-type: none"> <li>SAIL, RSP approached IIT, Delhi to examine the cause of such cracks and to recommend further action in this regard. IIT Delhi submitted report stating design issue and foundation to be dismantled. But, the Consortium was not agreeing for the above design issue.</li> <li>In the meantime, inhouse consultant CET was also appointed to study the defect.</li> <li>CET had accepted the repair methodology suggested by M/s Mitsubishi Corporation. Clearance was given to M/s Mitsubishi Corporation for going ahead with erection of Mill stand. Erection completed. Cracks repaired.</li> </ul>
<ul style="list-style-type: none"> <li>Transmission Line issue</li> </ul>	<ul style="list-style-type: none"> <li>From NSPCL to New HSM site, total 7 km overhead transmission line/cable to be laid as per contract. However, around 1.7 km overhead transmission line is not possible and cable to be laid. The change order was issued.</li> </ul>
<ul style="list-style-type: none"> <li>Five Stein issue Legal dispute in Fives Stein India (Order passed by NCLT), sub agency of L&amp;T has resulted delay in supplies of skids and stack materials for Reheating Furnace. This caused stoppage of furnace Stack fabrication work. The supply of furnace skids was also affected.</li> </ul>	<ul style="list-style-type: none"> <li>M/s Five Stein is a sub-vendor of consortium for Reheating Furnace.</li> <li>Matter was taken up with Fives Stein (India) directly to resolve the issue. Skids for 1st furnace were delivered at site on 15.10.18 and erected. Skid material of second furnace received at site on 25.1.2019 and erected.</li> </ul>
<ul style="list-style-type: none"> <li>To expedite the project completion, L&amp;T proposed to start testing of individual equipment once the same is ready for testing. M/s MC did not agree to such testing and proposed to start the testing and trial of equipment after all the equipments are erected.</li> </ul>	<ul style="list-style-type: none"> <li>After interventions from SAIL/ RSP, MC agreed for taking up individual trial &amp; testing of equipment. Accordingly individual equipment started with available 33kV GIS charged.</li> </ul>
<ul style="list-style-type: none"> <li>Supply issue of sleepers for Incoming, Outgoing (3 nos each ) Railway track line</li> </ul>	<ul style="list-style-type: none"> <li>Sleepers (~20,000 nos/) are ordered on vendors approved by Railways, however, supply was delayed as Railways did not give permission for supply to RSP as it would affect their supply quantity.</li> <li>After intervention of CO with Railways, permission given for supply. Further, meeting held with Principal Chief Engineer SE Railways at Kolkata on 30.04.19 and Railways agreed to supply 2000 sleepers/month.</li> </ul>
<ul style="list-style-type: none"> <li>Absentism of workmen was hampering the job plan and related progress</li> </ul>	<ul style="list-style-type: none"> <li>More Number of Gate Passes were issued by RSP to the agency M/s L&amp;T</li> </ul>
<ul style="list-style-type: none"> <li>Balance FOB supplies from France for Reheating Furnace.</li> </ul>	<ul style="list-style-type: none"> <li>FOB items received.</li> </ul>
<ul style="list-style-type: none"> <li>Refurbishing of Reheating Furnace hydraulic pumps supplied by M/s Yuken (for walking beam mechanism).</li> </ul>	<ul style="list-style-type: none"> <li>Pumps received and installed.</li> </ul>
<ul style="list-style-type: none"> <li>Replacement of defective PLC cards for Mills.</li> </ul>	<ul style="list-style-type: none"> <li>PLC cards received at site on end of Sep'19.</li> </ul>
<ul style="list-style-type: none"> <li>No load trial of Crop Shear was done on 21.11.19. Crop shear motor tripped on over current on 25.11.19. After meggering, the fault was confirmed to be earth fault.</li> </ul>	<ul style="list-style-type: none"> <li>Experts from Japan arrived at site on 29.11.2019 and examined the same. The experts have ruled out any repair and committed to replace the same by importing from Japan. The new motor was air lifted from Hitachi, Japan and installed.</li> </ul>
<ul style="list-style-type: none"> <li>Non availability of Foreign experts and start of Mill again</li> </ul>	<ul style="list-style-type: none"> <li>Matter is being discussed with Consortium and CEO RSP has also written letter to Minister (Economic and Commerce embassy of India, Japan on 16.07.2020.</li> <li>MC through letter dated 31.08.2020 shown its inability to give any dates for commissioning due to reasons beyond their control.</li> </ul>

**7.PROJECT OWNER/ PROJECT CO-ORDINATOR/ PROJECT MANAGER:**

Project Owner	Project Co-ordinator	Project Manager
-	HSM Deptt.	SK Behera, CGM (Proj.)

## **BSL –Replacement of 6 nos. Battery Cyclones with ESPs in Sinter Plant**

1.	<b>PROJECT:</b> Replacement of 6 nos. Battery Cyclones with ESPs in Sinter Plant	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Jul'07 Jul'17 (after RPN)
ii)	Original approved date of commissioning	Aug'10 Dec'19 (after RPN)
iii)	Now anticipated	Dependent on Shutdown Availability
3.	<b>COST (Rs. in crore)</b>	
i)	Original approved	71.40 (net of CENVAT benefit of Rs. 9.20 crore)  62.04 (net of CENVAT benefit of Rs. 7.14 crore)- After RPN for balance work
ii)	Expenditure till Mar'20	64.19 Cr
iii)	Expenditure in 2020-21 (up to Sept'20)	3.26 Cr
0iv)	Cumulative Expenditure up to Sept'20	67.45 Cr

#### 4. **BENEFITS ENVISAGED**

This is a Pollution control scheme to restrict Stack emission below 50 mg/Nm<sup>3</sup> as per the proposed pollution control norms of CPCB. The replacement of 6 Nos. of Battery Cyclones of 720,000 m<sup>3</sup>/hr with 6 nos. of Electrostatic Precipitators of capacity 900,000 m<sup>3</sup>/hr is being carried out in three machines of Sinter Plant for cleaning of sinter process gas to meet the Statutory requirement of emission level of outlet dust.

Battery cyclone No.6 was replaced with ESP No. 6, which was brought into stream in October, 2010 by the earlier contractor (M/s SEPC). Preliminary Acceptance Certificate (PAC) for ESP No.6 with Defect list was issued to the party on 05.07.10.

RPN action taken due to poor performance of the Contractor and fresh Contract signed after tendering. The present contract is for replacement of balance 5 ESPs.

#### 5. **PHYSICAL PROGRESS OF WORK**

- LOA issued to M/s Unicorn & M/s HNCPL on 21.07.17 at Rs. 53.55 Cr. Agreement signed on 17.10.17.
- Kick off held on 31.10.17.
- Site mobilization done.
- General layout approved.
- D&E – All 148 nos submitted.
- Control room: Panel erection done & testing is in progress.
- Revisioning of Building & Technical structures in progress.
- Structural Fabrication completed- 500/550T.
- Equipment Supply: Electrode, ESP internal, Rapping assembly, Gas Distribution screen & slide bearing, Inlet Damper gate, Transformer supplied at site.

##### **ESP#2:**

- Shutdown received on 18.10.19. Work started on 05.12.19 as the contractor had shown their inability to start for need of fund.
- Dismantling of Battery cyclone-2 completed on 02.01.2020.
- Major Piling work completed on 02.02.2020; Balance 01 foundation piling completed on 30.05.2020; Pile cap, bolt fixing job completed on 06.06.2020.
- Erection of Outlet duct completed. Welding of Outlet duct is in progress
- Erection of lower column with bracing at Field no-1 & 2 completed.
- Erection of column at Field no-3 & 4 completed. Erection of suspension frame of field no. 4 completed. Erection of beam supporting to foundation of chain conveyor of field no. 3 is completed
- Erection of upper column with casing completed at Field no.-5. Assembly of suspension frame for field no. 5 completed
- Assembly of bus duct for TR-1 & 2 of ECR#1 completed.
- Erection started from 01.06.2020 . The status is given below:
  - Erection of collecting electrodes (702 /702) in field no. 2, 3, 4 & 5 is completed.
  - Preparatory job for erection of GD screen at outlet cone is completed.
  - Erection of chain conveyor is under progress.
  - Welding of joints of structure in field no. # 2 is under progress.
  - Insulation job is under progress.
  - Transformer ( 02 Nos.) testing completed.
  - Commissioning of ESP#2 along with exhauster#2 is likely by 3rd week of Oct'20 against the earlier schedule of 30.09.2020. The delay was due to cannibalization of exhauster coiler of Exhauster No.2 for Exhauster No.1 as the same was damaged. The new coiler is expected to reach site by 1st week of Oct'20.
- Commissioning of ESP-2 is expected by 17<sup>th</sup> Oct'20.

#### 6. **CONSTRAINTS / ISSUES TO BE TAKEN UP:**

- 5 months S/d for each ESP required
- Availability of shutdown as per plan is critical for completion of this project.
- Non-availability of experts from M/S Unicon, Coimbatore due to lockdown



7. **PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Co-ordinator	Project Manager
GM/SP	-	Sanjay Kumar GM(P) RRMP, SP & AS Zone

**BSL – New Sinter Plant**

1.	<b>PROJECT:</b> New Sinter Plant	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Mar'15
ii)	Original approved date of commissioning	Nov'17
iii)	Now anticipated	Dec' 21
3.	<b>COST</b> (Rs. in Cr.)	
i)	Original approved	Rs.1034.01 Cr (Cenvat benefit Rs 77.23 Cr.) (FE- Rs. 175.13 Cr)
ii)	Expenditure till Mar'20	Rs.462.65 Cr.
iii)	Expenditure in 2020-21 (up to Sep'20)	Rs.19.66 Cr.
iv)	Cumulative expenditure till up to Sep' 20	Rs.482.31 Cr.

4. **BENEFITS ENVISAGED**

New Sinter Plant shall meet Sinter requirement for production of 5.77 Mtpa of Hot Metal after Phase-I Modernisation and Expansion of BSL. Considering 70% burden, about 7.0 Mtpa gross Sinter is required. Sinter production: SP1-4.7 Mtpa; NSP-3.7 Mtpa

No. of Sinter Machine x area : 1 x 360 m<sup>2</sup>  
 Productivity, Rated : 1.3 t/m<sup>2</sup>/h  
 Under-grate suction : 1650 (min) mm WC

5. **PHYSICAL PROGRESS OF WORK**

LOA issued on 11.04.15 to Consortium of M/s Ukrigiprommez, Ukraine BEC, Bhilai Trafalgar, Dubai & Uralmash, Russia for main package; Consortium of M/s HN Singh Construction & TRF Limited for RMHS package; Consortium of M/s MECON & TBEA Zonfa Shanghai High Voltage, China for Power Supply System. LOA placed on 15.02.2016 for lime Plant on consortium of AIFL, Kolkata Ducon Technologies, Mumbai, Societalmpainti, Italy.

S N	Package	Party	Cost (Party Wise) , Rs. Cr	Expenditure, Rs. Cr	Effective date of Contract	Schedule(Likely/ Actual)
1	Main package	Ukrigiprommez, Ukraine Uralmash, Russia BEC, Bhilai Trafalgar, Dubai	NOC : 653.85 (Ukrigiprommez -Euro 2576000 Uralmash -Euro 4648200 BEC-Rs 458.26 Cr Trafalgar Euro 12539500 + INR 38.5 Cr) <u>Gross : 710.54</u> (Ukrigiprommez -Euro 2576000 Uralmash -Euro 4648200 BEC-Rs 513.13 Cr Trafalgar Euro 12539500 + INR 40.32 Cr)	275.49	10.05.15	Oct'17/ Dec'21

**Status:**

Discipline	Schedule Completion	Likely Completion (Under Review)	% completed
Design &Engineering	Jun'17	Nov'21	59
Civil Work	Sep'17	Oct'21	66
Structural Fabrication	Sep'17	Nov'21	25
Structural Erection	Dec'17	Dec'21	21
Equipment supply	Jul'17	Aug'21	18
Equipment erection	Nov'17	Nov'21	NIL

Revised Essentiality certificate received from MOS on 15.01.18 due to error in earlier issued Essentiality certificate.

**Work completed**

- Surveying work completed in May'15 and Soil testing completed in Aug'15.
- Basic Engg- all 161 nos completed
- ER04 Bldg: footings 33/33 nos done.
- Dedusting stack: 70/70 M done erected.
- Proportioning Bin: 29/29 nos Column casting done.
- Waste gas stack-100/100M done
- Civil foundation of following structural building completed: Flux Screening Building, Flux Primary & secondary Crushing Building, Coke Primary and Secondary Crushing Building, Proportioning Bin Building, Sinter Machine Building (Except foundation of staircase), Mixing Building, Sinter Screening Building, Sinter Crushing Building, Electrical spare storage, Area Repair shop
- Structure erection of Electrical spare storage & Area Repair Shop completed.
- All equipment of Uralmash& Trafalgar imported part (40 % of total scope) supplied at site.

<u>Work in progress</u>						
<ul style="list-style-type: none"> <li>Civil work under execution for Sub-station ER01,ER02,ER04,ER05&amp;ER06, Inter shop cable tunnel, Coke storage, Sinter Storage, sinter cooler, Junction house and conveyor gallery, Admin &amp; canteen Building, De-dusting Stack, waste gas stack. <ul style="list-style-type: none"> <li>Sinter storage Building: 2360/3174 m<sup>3</sup> RCC done.</li> <li>Inter shop cable tunnel work under progress (1648/3900 m<sup>3</sup>)</li> <li>Coke Ground storage: Concreting -1134.75/1516 m<sup>3</sup> done.</li> <li>Sinter cooling building: Concreting -1688/2027 m<sup>3</sup> done.</li> <li>Emergency sinter storage- 2836/3239 m<sup>3</sup> done.</li> <li>Flux screening building: Concreting 1119/1669m3 completed</li> <li>Sub Station ER 02: Concreting 4221/4569 m3 completed;</li> <li>Sub Station ER 04: Concreting 1584/1630m3 completed</li> <li>Sub Station ER 05: Concreting 1129/1326 m3 completed; Preparation of slab casting is going on.</li> <li>BEC submitted revised drg. of ESP on 13.07.20 in CET. Under approval.</li> <li>ER-02 (07 Floor Building) Slab Casting of 4th floor completed. Column casting above 4th floor started. Building is in critical path, thrust is being given for completion by May-21</li> </ul> </li> <li>Structural work is under execution: Sinter Machine Building, Electrical spare storage, Sinter Screening Building, Area Repair Shop, Sinter Crushing Building, Proportioning Bin Building: <ul style="list-style-type: none"> <li>Proportioning Bin: Structural erection – 1187/2550T done</li> <li>Sinter M/c building: Technological erection – 1251 T/2500T done; Building erection -1449/4000 T completed</li> <li>Wind main of Sinter Machine Building (53M height) : 300T / 900T erected till date. This is in Critical Path.</li> <li>Sinter crushing building- 240/ 252T erection done.</li> <li>Structural work of Flush secondary crusher in progress.</li> <li>Sinter screening building - Building erection -613/1350 T completed</li> </ul> </li> </ul>						
2	Lime Plant (450 TPD Lime Shaft Kiln-SP-II)	AIFL, Kolkata Ducon Technologies, Mumbai, Societalmpainti, Italy	<u>NOC</u> AIFL - INR 31.86 Cr (contract price) Ducon - INR 30.05 Cr (contract price) Societa - Euro 2808000 (contract price) <u>Gross :</u> AIFL - INR 34.13Cr (contract price) Ducon - INR 32.19 Cr (contract price) Societa - Euro 2808000 (contract price)	53.38	02.04.16	Mar'18/ Mar'21
<u>Status</u>						
<ul style="list-style-type: none"> <li>1<sup>st</sup> Engineering meeting held from 20 - 22.04.16.</li> <li>Site activity started from 02.06.2016. Dismantling of mechanical sheds completed and Scrap removal done.</li> <li>Revised Essentiality certificate received from MOS on 03.11.17 due to error in earlier issued Essentiality certificate.</li> <li><b>Basic engineering completed. Detailed engineering -87%, 79% concreting, 47% Structural Fabrication, 32% Structural erection, 72% equipment supply done.</b></li> <li><b>All imported equipment received at site;</b> Equipment Supply (M/s SIC): 43/43 nos items received at site;</li> <li>Indigenous supply(M/s AIFL): ID fan, Isolator, Blowers, Booster, PDB Panel, Vibrating feeder &amp; Screen, Transformer, Motor Soft starter, Bus Duct and 11 KV HT Panel supplied <ul style="list-style-type: none"> <li>Mech eqpt - 53/132 items supplied &amp;</li> <li>Elect eqpt - 52/162 items supplied at site</li> </ul> </li> <li>ECR Bldg: Finishing work done.</li> <li>Control room (Electrical) – Ground floor finishing work done.</li> <li>Blower house: Structural work is under execution; Shuttering &amp; Reinforcement for roof casting completed. Casting planned by 25.09.2020.</li> <li><b>Civil foundation of Lime reject bunker, Lime stone storage bunker, Dedusting bunker, proper lime kiln, Gas booster house, PCM &amp; FO Tank completed.</b></li> <li>Lime Proper Kiln-Civil foundation is ready and Strl erection (113T) is to start by M/S AIFL on 10.06.2020; Kiln Shell 1-5: Structural erection 140 T done.</li> <li>21T/64 T Erection of De-dusting bunker &amp; Rejected Kiln bunker done.</li> <li>Work stopped by M/s AIFL due to non-payment issue. Engineer's notice issued on 26.02.2020.</li> </ul>						
3	RMHS	HN Singh, TRF	NOC : 148.70 Gross : 160.32	83.21	11.5.15	May'17/ Mar'21
<u>Work completed</u>						
<ul style="list-style-type: none"> <li>General Layout approved in Jun'15</li> <li>Removal of debris from yard completed in Jan'16.</li> <li>Order placed for Stacker, Barrel type Reclaimer, Twin boom Stacker cum Reclaimer. Idler, Idler frame, Stringer &amp; short post, Gear Brake, Motor &amp; Gear coupling supplied at site.</li> </ul>						
<u>Work in progress</u>						
<ul style="list-style-type: none"> <li>Detailed Engineering in progress - 86% done.</li> <li>Civil works in progress - 85% done.</li> <li>Structural fabrication in progress - 94% done and 93%erected.</li> <li>53% equipment supplied and 31%erected.13/17 lots of equipment supplied&amp; erected at site.</li> <li><u>Conveyor (19 nos):</u>Civil foundation of Conveyor- 16/ 19 nos done. Structural work-11/19 nos done.</li> <li>Slab casting completed for LT &amp; HT Sub-station. Brick work is in progress</li> <li><u>Junction House (21 nos):</u></li> <li>Civil foundation of JH -16/21 nos completed.</li> <li>Structural work-12/21 nos done.</li> <li>Electric room work done.</li> <li>Colour coated sheets laid: 24000/40000m<sup>2</sup> ;Translucent sheets laid -2650/3000 m<sup>2</sup></li> </ul>						

<ul style="list-style-type: none"> <li>• Strl ercn at P16C21, P16C2 -90 % done. S/d awaited.</li> <li>• Issue of height of JNA-12 &amp; JNA-13 is under discussion with consultant CET and technology supplier of new Sinter Plant (M/s UKG). Assignment for JNA-12 &amp; JNA-13 submitted by Pkg-1 contractor and handed over to PKG 3 contractor.</li> </ul> <p><u>Issues</u></p> <ul style="list-style-type: none"> <li>• Shutdown for execution work of JNB1, JNB2 &amp; related conveyors required.</li> <li>• Shutdown of Over transmission line is awaited for erecting the trestle (TR-21 &amp; TR-22) conveyor galley P16C1 and P16C2 behind SP-II</li> <li>• Power required for testing of electrical equipment.</li> </ul>						
4	Power Supply	MECON, TBEA Switchgear, China	NOC : 50.50 (MECON – Rs 45.26 Cr; TBEA- USD 860000) Gross: 53.40 (MECON – Rs 48.16 Cr; TBEA- USD 860000)	47.15	09.05.15	Nov'16/ Feb'21
<p><u>Work completed</u></p> <ul style="list-style-type: none"> <li>• Surveying work &amp; Soil testing completed in Jun'15.</li> <li>• Basic &amp; Detail engineering completed - 21/21 nos&amp; 294/294 nos.</li> <li>• Order placed for Power Transformer.</li> <li>• Route survey for underground cable laying completed in Jan'16.</li> <li>• Transmission route finalized in Jan'16</li> <li>• 16 MVA &amp; 80MVA transformer: Auxiliary equipment erection done for 80 MVA done. Alignment &amp; leveling done.</li> <li>• Civil work for 16 &amp; 80MVA transformer done</li> <li>• 80 MVA Transformers: Oil filtration and Bush fitting done</li> <li>• All major eqpt. supplied (like Transformers, HT-Switch Gear) &amp; erected. Balance supply- 132kv EHV cable, 132 KV Transmission line Strs.</li> </ul> <p><u>Work in progress</u></p> <ul style="list-style-type: none"> <li>• Concreting, 2098/2100m<sup>3</sup> done.</li> <li>• Structural fabrication 120/150 T done.</li> <li>• <u>GIS building</u>: Roof casting at 11M done. Internal Brick work done. 11 KV &amp; 6.6 KV Panels are erected. Internal cable trench work is in progress from GIS building to MV switch gear &amp; 80 MVA Transformer. 24/24 relay control panel completed. GIS panel to be erected after completion of EOT crane.</li> <li>• EOT Crane – EOT crane rail erection done. Alignment of rail for both the side completed. Trench cutting &amp; construction of cable trench is in progress.</li> <li>• EHV, Trench cutting &amp; construction is in progress. (500/630 M done).</li> <li>• Civil work for Cable Gallery from MSDS - 10 to 4RP in progress.</li> </ul> <p><u>Issue</u></p> <ul style="list-style-type: none"> <li>• Balance supply- 132kv EHV cable, 132 KV Transmission line Strs.</li> <li>• Order Placed by M/s Mecon to M/s KEC for transmission line work. (Schedule – 7 months). Site Survey work started by M/s KEC in Sept'20.</li> </ul>						

6.

**CONSTRAINTS / ISSUES TO BE TAKEN UP:**

CONSTRAINTS / ISSUES FACED	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>• Site work delayed due to delay in detailed Engineering drawing (mainly by M/s BEC for main package)</li> <li>• Poor progress at site by M/s BEC</li> </ul>	<ul style="list-style-type: none"> <li>• Monthly review meeting being held with the concerned parties</li> <li>• Parties being regularly followed up for expediting submission of drawings and resources at site</li> <li>• Submission of wrong drawings by BEC is also leading to the delays.</li> <li>• In spite of various meetings at the level of Dir (P&amp;BP)/CEO, BSL/ED (Project), BSL progress not improved much.</li> <li>• In the Engineering meeting held on 20.02.2017, BSL &amp; CET suggested BEC to engage a competent agency for Design engineering.</li> <li>• Inadequate deployment of manpower at all fronts by M/s BEC.</li> <li>• 1<sup>st</sup> Engineering notice given on 15.07.17. Further Communication sent on 29.8.17.</li> <li>• Progress reviewed by Chairman, SAIL on 23.10.17. Letter sent to the Consortium Leader from Director (P&amp;BP) on 24.10.17 and from CEO, BSL on 25.10.17.</li> <li>• Progress review meeting held by Director (P&amp;BP) on 26.12.17 through VC with BEC, CET and BSL.</li> <li>• Review meeting by Dir (P&amp;BP) at CET, Ranchi held on 20.01.18.</li> <li>• Meeting was conducted in Ukraine with Contractors, Consultant and BSL for scrutiny of drawings.</li> <li>• The drawing issues are still not resolved. Civil works affected in major areas like – Sinter machine, sinter storage, sinter cooler, coal storage, coke storage etc.</li> <li>• Meeting held with M/s UKG, BEC, Trafalgar on 05.07.18 at BSL and at Ranchi on 06.07.18.</li> <li>• In the above meeting, Consortium leader was specifically told that the performance of Consortium partner M/s BEC is very poor which is adversely affecting the progress of the Project.</li> <li>• It was also informed that the monthly targets for Civil and Structural work are not being achieved. In July' 2018 only 1000 Cum of Concreting done against the target of 2478 Cum and 121.079 MT of Structural erection done against a target of 205 MT.</li> <li>• Citing the above facts, BSL wrote to M/s UKG vide mail dated 31.07.18 that as Consortium leader they should intervene in the above matter and submit plan for completion of M/s BEC's scope of work</li> </ul>

CONSTRAINTS / ISSUES FACED	CORRECTIVE ACTION TAKEN
	<p>within a week otherwise action will be taken according to provisions of the contract.</p> <ul style="list-style-type: none"> <li>• Letter sent by CEO, BSL on 27.12.18 to M/s UKG to submit detailed work plan.</li> <li>• Team of officials from M/s UKG and M/s BEC attended the meeting on 17<sup>th</sup>-18<sup>th</sup>, Jan'19, wherein payment related issues and progress of site works were discussed. Detailed work plan along with list of activities till the month Jun'19 was submitted by them.</li> <li>• Regular meetings are being conducted by BSL &amp; CET with M/s BEC.</li> <li>• Notice of Negligence issued to M/s Ukrgipomez on 24.06.19, regarding persistent and repeated failure of M/s BEC to perform the contract causing considerable delay and advising M/s Ukrgipomez to initiate appropriate action against M/s BEC.</li> <li>• Subsequent to issuance of notice of negligence, M/s UKG have deployed their expert at site to assess the balance jobs and accordingly the meeting of consortium members held on 22.07.2019 at Ukraine to decide the further course of action.</li> <li>• Meeting was held between BSL and consortium members at Bokaro on 06.08.19 wherein M/s UKG assured to submit the concrete plan within 2 days for resolving the issue for future course of action. As M/s UKG had not submitted concrete plan, 2<sup>nd</sup> notice of negligence dated 14.08.19 was issued to all consortium members.</li> <li>• M/s BEC has been extended interest bearing advance on revolving credit basis for limit of Rs.10 Cr. and also the permission for in-plant Structural fabrication.</li> <li>• Work stopped from 01.07.19 till 25.08.19. Work started in a limited way from 26.08.19.</li> <li>• VC held on 13.09.19 in presence of Dir(P&amp;BP) with all consortium members.</li> <li>• A letter was issued by Dir (P&amp;BP) on 1.10.2019 to M/s UKG for resolving the issues at the earliest otherwise alternative actions as per provisions of contract, including RPN action shall be taken.</li> <li>• Notice of Contractor's default was issued on 14.11.19 to all consortium members.</li> <li>• A meeting was conducted with consortium members by Chairman SAIL on 18.11.19 to discuss various option for completing the projects within stipulated time including penal action as per contractual terms.</li> <li>• In this regard, a meeting was held between D(P&amp;BP) with Ambassador of Ukraine on 24.11.2019.</li> <li>• Modalities is being finalized to take part of the facilities under M/s BEC's scope by the Employer and get it completed through multiple packages in parallel for expeditious completion of the project.</li> <li>• Expression of Interest for the part of the balance facilities under M/s BEC's scope has been issued on 04.01.2020 and in response to the same; three offers were received. Discussion with the bidders held from 25.02.2020 to 27.02.2020. However, none of the bidders have agreed for the time period of 12 months for completion of balance scope of work under M/s BEC's scope. Further course of action is being under deliberation with consultant-M/s CET.</li> <li>• Meanwhile, a meeting with BEC has been conducted in presence of D (P&amp;BP) on 05.06.2020 for early completion of the project. Subsequently, a detailed action plan has been submitted by M/s BEC for completion of the job by Dec'21 vide letter dated 18.06.20. The same shall be monitored on regular basis to assess whether the progress is in line with their commitment or not. However, they have indicated that the project can be completed by May'22. The party is being impressed upon to complete the project by Dec'21 itself.</li> <li>• BEC had requested BSL to release the interest bearing revolving credit for Rs.10 Crore, partly in Cash (Rs.3 Cr) and partly as steel credit (Rs.7 Cr). BSL had assured to release the credit note for procurement of atleast 2000T steel in the 1st lot and balance shall be released based on the progress of project. As of now, Steel credit of Rs.3 Cr and Rs.3.0 Cr cash has been issued / released to BEC.</li> </ul>
<p>Delay in LC opening for M/s Trafalgar</p>	<ul style="list-style-type: none"> <li>• M/s Trafalgar had earlier requested for opening of transferable LC which could not be agreed.</li> <li>• Tripartite agreement made on 22.11.2016 between BSL, Trafalgar and Primetals, Austria for pellet car, hot sinter breaker and sinter cooler.</li> </ul>
<p>Slow progress of site works for RMHS.</p> <ul style="list-style-type: none"> <li>- Delay due to submission of Assignment drawings of JNA 12, 13 &amp;14 by Pkg-I.</li> <li>- Delay due to submission of mechanical drawings JNB-1 &amp; JNB-2 submitted.</li> <li>- Encroachment of Road</li> </ul>	<p>JNA 12,13 &amp;14 Assignment drawings have been received and approved.</p> <p>Mechanical drawings of JNB-1 &amp; JNB-2 submitted. Under approval by CET.</p> <p>Meeting held with User department for encroachment related issue. MOM signed. Drawings submitted to CET.</p>
<p>Foundation drawings for ER-04 were cleared by CET on 18.4.2017 and the work was started immediately. Now when 11 rafts have been constructed, M/s UKG informs (dated 5.5.2017)</p>	<p>Engineering meeting was held at Ranchi, wherein M/s UKG, CET and BEC were present during 23-25, May'17 and resolved the issue. It was decided to relocate the balance foundations.</p>

CONSTRAINTS / ISSUES FACED	CORRECTIVE ACTION TAKEN
that the co-ordinates for ER-04 are wrong. As a result the balance foundations have been kept on hold. This was also affecting 30 common foundations of Proportioning Buildings and ER-04 which have been approved. M/s. UKG requested to immediately resolve the issue and give clearance for starting the site activities.	
Slow progress of RMHS package	<ul style="list-style-type: none"> <li>Issue of height of JNA-12 &amp; JNA-13 is under discussion with consultant CET and technology supplier of new Sinter Plant (M/s UKG).</li> <li>Assignment for JNA-12 &amp; JNA-13 submitted by Pkg-1 contractor and handed over to PKG 3 contractor.</li> </ul>
Power Supply Package:  Track of Traffic Dept is falling in the route of cable trench which needs to be removed after taking clearance from traffic Dept.  Issue of Change order for 132 KV GIS & Laying of HT Cable-4km. Supply from TBEA, China has been changed to M/s Crompton Greaves (delay -1 year).	<ul style="list-style-type: none"> <li>Laying of hume pipe completed which was falling in track of Traffic Dept route.</li> <li>Placement of order from M/s MECON to M/s KEC regarding the transmission line work.</li> </ul>

7. **PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Co-ordinator	Project Manager
GM/SP	I Majumdar, DGM(M)/SP	Sanjay Kumar, DGM(P) I/C RRMP, SP & AS Zone

**BSL – Modernisation of SMS-I**

1.	<b>PROJECT:</b> Modernization of SMS-I	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	May'15
ii)	Original approved date of commissioning	Nov'17
iii)	Now anticipated	Jun'19 (Converter: 1 <sup>st</sup> heat taken on 22.05.19 / Caster: Oct'20)
3.	<b>COST</b> (Rs. in Cr.)	
i)	Original approved	Rs.1154.18 Cr (Cenvat benefit Rs 99.18 Cr) (FE- Rs. 261.97 Crore)
ii)	Expenditure till Mar'20	Rs.1006.22 Cr
iii)	Expenditure in 2020-21 (up to Sept'20)	Rs.19.56 Cr
iv)	Cumulative expenditure up to Sept'20	Rs.1025.78 Cr

4. **BENEFITS ENVISAGED**

The Project will facilitate Continuous casting of steel by phasing out obsolete Ingot casting route to achieve yield & quality improvement and production of adequate quantity of CC slabs to supplement slab produced at SMS-II for full capacity utilization of existing HSM.

- Replacement of one BOF Converter with heat size of 130t (max.) & 125 t (Avg.) with Tap to Tap time of 50 minutes (approx.).
- Suppressed Combustion system and Gas holder.
- Self propelled transfer car for Slag disposal.
- 1x1 strand Conventional Slab caster, 1.305 Mtpa:
  - Slab thickness : 200 - 250 mm
  - Slab width : 850 - 1650 mm.
  - Length of slab : 7500- 10500 mm.

5. **PHYSICAL PROGRESS OF WORK**

- LOA issued on 05.12.2013 to M/s C.J.R Consultant, Bokaro for Geo-technical Investigations and Survey Works.
- LOA issued on 16.05.2014 to M/s HN Singh Construction, Bokaro for Enabling Works.
- LOA issued on 01.06.15 to M/s Primetals & consortium for Suppressed Combustion System along with replacement of BOF Converter.
- LOA issued on 01.06.15 to M/s Prime metals & consortium for Slab Caster with associated facilities.
- LOA issued on 01.06.15 to M/s Sterling Wilson and consortium for 132/33 kV Power supply System.

SN	Package	Party	Cost (Party Wise), Rs. Cr	Expenditure, Rs. Cr	Eff. Dt of contract	Sch (Likely/ Act)
1	Geo-technical Investigations and Survey Works	C.J.R Consultant	Rs 7.38 lakhs	-	05.12.13	
	The final soil report submitted by contractor in Apr'14.					
2	Enabling Works	HN Singh Construction	NOC : 9.252 Gross : 9.74	10.49	16.05.14	
	Major works Completed in Aug'15. PAC issued on 30.10.15.					

3	Suppressed Combustion System along with replacement of BOF Converter	Primetals and L&T	<u>NOC : 444.70</u> (Primetals - Euro 12,754,574 +INR 131.68Cr L&T - INR 213.00 Cr) <u>Gross : 487.45</u> (Primetals - Euro 12,754,574 +INR 157.70 Cr L&T - INR 229.73 Cr)	420.50	30.06.15	1 <sup>st</sup> Heat taken on 22.05.19.
<ul style="list-style-type: none"> <li>1<sup>st</sup> heat taken on 22.05.19.</li> <li>18 heats taken till 29.05.19, after which Hood got punctured and the Converter is down since then for defect liquidation.</li> <li>Frequent water leakages from the movable Hood and damages occurred due to slopping of Slag from the Converter on 07.06.19.Hood replaced and Converter re-started on 01.10.19.</li> <li>Sudden rupture of Expansion Bellow on 27.09.19 and slag pot on 03.10.19. No- operation of Converter from 03.10.19 till date.</li> <li>Co-ordination with NMDC done for early arrival of Expansion bellow. Bellows supplied &amp; replaced.</li> <li>The preheating started on 25.11.19 and Converter stopped for cold repair of bottom joint from 28.11.19 after 33<sup>rd</sup> Heat.</li> <li>Converter restarted from 12.12.19.</li> <li>A total of 205 heats were taken and convertor was declared down due to poor condition of refractory lining. Presently, Converter is in operation after completion of refractory re-lining.</li> <li>Subsequently, both gear boxes of Slag pot transfer car (SPTC) had failed in the span of 3 days. These were replaced by gear box of SPTC of Converter-1.</li> <li>However, the following issue needs to be resolved:           <ul style="list-style-type: none"> <li>Flame gate has chocked resulting in slow flux addition. This would require change of inclination as suggested by the shop. The same is planned to be taken-up on availability of Shutdown.</li> </ul> </li> </ul> <p><u>Balance Jobs</u></p> <ul style="list-style-type: none"> <li>CO Network Piping from Gas Holder up to Blast furnace - 95% done.</li> <li>Electrical work for Heat track is in progress.</li> <li>Convertor#1 Track work in progress. Likely by 30/9/20.</li> <li>Drainage work in progress.</li> </ul>						
4	Ladle Furnace with associated facilities	M/s SMS India Pvt Ltd	<u>NOC :95.23 Cr</u> (SMS India – Rs. 93.15 Cr ; SMS Group GMBH– Euro 240,000 ) <u>Gross :103.09 Cr</u> (SMS India – Rs. 100.72 Cr ; SMS Group GMBH– Euro 240,000 )	73.21	02.09.16	May'18 / Oct'20
<ul style="list-style-type: none"> <li>Kick off meeting held on 26.09.16. Lay out drawings submitted on 16.05.17. Site mobilization started on 21.08.17</li> <li>Civil work           <ul style="list-style-type: none"> <li>Work for all eqpt area completed. Flooring in progress.</li> <li>Civil work of ID fan &amp; clean gas stack completed.</li> <li>Concreting of Hydraulic Room, AHU Room 2nd slab &amp; Deck slab completed.</li> <li>Civil work of cooling tower, secondary pump house in progress. construction of filler beam, &amp; baffle wall in progress for Cooling tower</li> <li>Balance civil work in Primary Pump house, ECR &amp; Laboratory is in progress.</li> </ul> </li> <li>Erection work           <ul style="list-style-type: none"> <li>LF proper: Mechanical erection done. Balance Piping &amp; electrical work is in progress.</li> <li>Bag House: Erection of Bag house, Drop point structures, Dust silo and clean gas stack, air receiver completed.</li> <li>Erection of ID fan completed.</li> <li>Erection and Alignment of Primary Pump house completed.</li> <li>FAFA : Erection in FAFA building completed Bunker alignment in FAFA building completed.</li> <li>Bunker placement work is in Completed &amp; welding of Bunker No.1, 2, 3,4,13 &amp; 14 Completed.</li> <li>Bunker no 5,6,7,8,9,10,11 &amp;12 welding is in progress.</li> <li>Parts of Fume Exhaust duct supplied at site. Welding work is in progress</li> <li>PQ bay&amp; QR bay: Erection work is in progress. Erection of material handling system in QR bay in progress (Likely by Oct'20). Duct Erection at PQ bay gable end completed.</li> </ul> </li> <li>Electrical work           <ul style="list-style-type: none"> <li>Secondary Pump house - Cable laying &amp; Electrical work is in progress. 500 M /1200M Piping work completed.</li> <li>Panel Erection in MCC Room completed. Transformer Alignment done.</li> <li>HT Room- Civil work &amp; Cable trench completed. Equipment Erection at HT Room &amp; Hydraulic room completed.</li> <li>UPS Battery ,charger for HT panels powered up &amp; testing done.</li> <li>6.6 KV cable &amp; 33 KV cable termination at MSDS-11 in complete.</li> <li>Installation of 33 KVA transformer completed &amp; connections &amp; Oil filtration is in Progress. HT cable laying for 33 KVA transfo.is in progress.</li> <li>Erection of 24 MVA transformer done.</li> <li>Cable laying for server room is in progress.</li> </ul> </li> <li>Lab eqpt. Dust monitoring system supplied at site.</li> <li>Erection of weigh- hopper completed</li> <li>On repetitive request, M/s SMS India has deployed two more additional agencies on 24.05.19.</li> </ul>						
5	Slab Caster with associated facilities	Primetals and L&T	<u>NOC : 475.73 Cr</u> (Primetals - Euro 16,247,000+ INR 80.64Cr and L&T -INR 252 Cr) <u>Gross : 522.76 Cr</u> (Primetals - Euro 16,247,000+ INR 109.21Cr and L&T -INR 270.46 Cr)	491.99	30.06.15	Nov'17/ Oct'20  (subject to Availability of Foreign Experts)

	<ul style="list-style-type: none"> <li>• Mobilization of resource at site started in Sep'15.</li> <li>• Dismantling of building started on 24.12.15.</li> <li>• Shutdown from 08.11.16 to 15.11.16 received from Traffic Dept for track re-routing. Track-300A connected with Track #301 and is under operation.</li> <li>• Piping work completed. (130000 inch-metre done.)</li> <li>• Excavation &amp; Raft casting done. Brick wall for storage and sand filling completed.</li> <li>• Alternate arrangement for propane gas has been made. Propane Line pressure testing completed.</li> <li>• Major equipment erection completed; trials and testing of individual equipment are in progress: <ul style="list-style-type: none"> <li>- No Load Trials of all Pumps &amp; Motors completed</li> <li>- 33kV &amp; 2 MVA Transformers charged and all panels charged,</li> <li>- Load Trial of Ladle turret Completed</li> <li>- Dummy Bar trial completed upto Segment -4</li> <li>- No load Trials for all roller tables completed</li> <li>- Entire Hydraulic System installed and commissioned</li> <li>- Lubrication system installed and commissioned</li> <li>- Tundish Car trials completed</li> <li>- No Load trials of Steam Exhaust System completed</li> <li>- All Maintenance equipment in Segment Repair shop installed and no load test completed</li> <li>- Load trial of cooling towers fans done.</li> <li>- No load trial of COG booster done.</li> <li>- I/O checking for sand filter done</li> <li>- Integrated testing of ICW line done.</li> <li>- Propane Line pressure testing completed.</li> <li>- Nitrogen &amp; Argon line charged.</li> <li>- DCW line integrated testing &amp; COG Line pressure testing done.</li> <li>- Mould line, &amp; Mould for machine pipe flushed.</li> <li>- Slab transfer car trial run in progress.</li> <li>- Trial run of turret with ladle completed.</li> <li>- Tundish drier- testing done &amp; Trial run for eqpt. transfer car done.</li> </ul> </li> <li>• Oxygen line rerouting work completed on 13.02.2020.</li> <li>• Cable laying and termination -90% done.</li> <li>• Connection of utility pipe lines to slab caster shop to be done after dismantling of old utility line. The dismantling job has been completed by L&amp;T. Erection of gable end of PQ bay &amp; associated galleries completed.</li> <li>• EOT Crane 2nd (100/20T) in QR bay: Load testing done.</li> </ul>					
6	132/33 kV Power supply System	Sterling Wilson and Crompton Greaves	NOC :Rs 30.87 Cr Gross : Rs. 35.26 Cr	28.94	06.07.15	Dec'16 /Completed in Dec'19
	<ul style="list-style-type: none"> <li>• Detailed Engg. 269/269 submitted.</li> <li>• Removal of Scrap material from the site completed.</li> <li>• Soil testing completed. Report submitted.</li> <li>• Structural fabrication completed and 68% have been erected</li> <li>• GIS system charged on 11.02.19 from Bay-14 of MSDS-1. System is under observation.</li> <li>• Transformer(50/63 MVA) charged on 15.02.19.</li> <li>• Testing of 33KVA panel for charging completed. Charging done.</li> <li>• Testing of 2nd Transformer done. Charging done on 03.05.19.</li> <li>• Defect liquidation in progress.</li> <li>• 5 days Shutdown required for charging of GIS from feeder no-13 of MSDS-1 which is feeding power to HSM Shutdown received on 25.09.19. Tower erection &amp; stringing of conductor completed.</li> <li>• GIS charging done 30.09.19.</li> </ul>					

6. **CONSTRAINTS / ISSUES TO BE TAKEN UP:**

CONSTRAINTS / ISSUES FACED	CORRECTIVE ACTION TAKEN
<p><b>•Site activities were affected due to Brownfield nature of jobs which include re-routing of High Tension/ Low Tension (HT/LT) cables, pipelines and Railway tracks.</b></p> <p><b>•As a result, dismantling of the BOF Converter could be started only after shutdown given in Oct'15 (about 5months after signing the contract).</b></p>	
Dismantling of buildings falling in the Caster area	Many buildings were operating in the area. Departments were followed-up vigorously to vacate the premises.
Non availability of track shutdown	66 piles were on hold due to non-availability of track shutdown. Alternate track has been laid. Shutdown given on 1 <sup>st</sup> Feb'17. With this, all fronts of Caster area were ready for execution.
There is a requirement for modification of Crane girder of Mould & Segment repair shop and Railway track	Change orders for modification of Crane girder, Mould & segment repair shop (Rs. 36.65 cr) and Railway track (Rs. 13.75 cr) have been issued on M/s L&T on 27.04.2017. Initially, the same were not accepted by the party citing the insufficient extension of the contract (6 months extension given by BSL; L&T is demanding 18 months extension). On 27 <sup>th</sup> May'17, L&T accepted the Change order under protest for extension of time.  Apart from the above, Change order placed for change in Slab thickness i.e, 250 mm to 225 mm based on the HSM requirement. Financial impact is Rs. 18 lakhs.
BSL had requested the party to dispatch shell plate in the 1 <sup>st</sup> lot.	However, the same has not been dispatched by the party in the 1 <sup>st</sup> lot. Issue was taken-up by BSL with the party. Shell plate supplied in Apr'17.
Water logging due to rain and space constraint resulted in slow progress in civil & structural erection.	Progress is being expedited.

CONSTRAINTS / ISSUES FACED	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>Site activities were affected due to Brownfield nature of jobs which include re-routing of High Tension/ Low Tension (HT/LT) cables, pipelines and Railway tracks.</li> <li>As a result, dismantling of the BOF Converter could be started only after shutdown given in Oct'15 (about 5months after signing the contract).</li> </ul>	
1st heat was planned on 31.12.18 without Dedusting system & Gas holder. However due to non-availability of foreign experts for testing and trial run, 1 <sup>st</sup> heat was planned in May'19.	Letter sent to M/s Primetals from CEO BSL on 27.12.18 and Dir (P&BP) on 02.01.19 for deputing required personnel on priority.  A team consisting of two members was at site from 05.02.19. 1 <sup>st</sup> heat taken from BOF Converter on 22.05.19
Propane unit	Go-ahead letter was given for new location in 2nd week of Apr'19.
COVID-19 : Availability of Foreign Experts due to stoppage of International Flights	The 1st heat of the Caster is expected in Oct'20 subject to availability of foreign experts on resumption of International flights. Party has been requested to send the details of Foreign experts and their deployment. Email sent to MOS by Dir (P&BP) on 18.08.20 for their intervention by taking up the matter with the concerned embassies.  Testing of mould, mould oscillator, cutting torch machine, Deburrica & marking machine to be done after arrival of foreign expert from M/s Primetals, Austria.
Connection of utility pipe lines to slab caster shop to be done after dismantling of old utility line.	L&T has completed the dismantling job. Erection of gable end of PQ bay & associated galleries in progress.

7. **PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Co-ordinator	Project Manager
GM/SMS-I	-	KK Pathak, GM(P) Steel & Power zone

**BSL – Re-building of Coke Oven Battery -8**

1.	<b>PROJECT:</b> Rebuilding of Coke Oven Battery- 8	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Nov'16
ii)	Original approved date of commissioning	Jun'19
iii)	Now anticipated	May'21
3.	<b>COST (Rs. in Cr.)</b>	
i)	Original approved	Rs.262.87 Cr (Cenvat benefit of Rs 22.19 Cr)
ii)	Expenditure till Mar'20	Rs.139.32 Cr
iii)	Expenditure in 2020-21 (up to Sept'20)	Rs.22.85 Cr
iv)	Cumulative expenditure up to Sept'20	Rs.162.17 Cr

4. **BENEFITS ENVISAGED**

Rebuilding of Battery no.8 alongwith revamping of common upstream and downstream facilities to meet Coke demand & CO gas shortage and latest Pollution control facilities to comply with Statutory emission levels.

- Specifications : 5 m tall 69 ovens
- Gross coke (dry) : 0.566 Mt/yr.
- B F coke (dry) : 0.500 Mt/yr.

5 **PHYSICAL PROGRESS OF WORK**

Battery Proper

Discipline	Schedule Completion	Likely Completion	% completed
Design & Engineering	Nov'18	Oct'20	90
Civil Work	May'19	Apr'21	45
Structural Fabrication including TOPR	Mar'19	Dec'20	76
Structural Erection	April'19	Jan'21	66
Equipment supply	Mar'19	Jan'21	81
Equipment erection	May'19	May'21	18

- LOA placed on 04.11.2016 on M/s MECON for Battery Proper Package, on M/s OCL for Silica bricks, on BEC for Oven machines.
- Contract Agreement signed with MECON for Battery proper on 02.12.16 and with BEC for Oven machines on 13.12.16. PO placed for Silica bricks on 25.11.16.

SN	Package	Party	Cost (Party Wise) Rs. Cr	Expenditure Rs. Cr	Effective Date of contract	Schedule (Likely/ Actual)
1	Battery Proper	MECON	NOC : 118.60 Gross : 130.53	46.50	01.12.2016	May'21



	<ul style="list-style-type: none"> <li>L-2 network submitted by MECON.</li> <li>Enabling works: LOA placed on 31.01.17 on Udaya Industrial by MECON.</li> <li>Order placed on M/s NP Constructions on 31.10.17 for Civil works.</li> <li>TOPR erection completed in Feb'20.</li> <li>Change order issued on 20.03.19 for repair of Nozzle deck slab civil structure. Repair work of Nozzle deck slab started from 19.04.19.78/78 nos columns rectified for nozzle deck. Ceiling repair work of Nozzle deck Slab done. Cleaning work completed.</li> <li>Pusher car track: 4/4 nos. rails placed</li> <li>Flash plate 140/140 supplied at site.</li> <li>Buck stay tie rod supplied.</li> <li>1st Engineers' Notice issued on 21.09.19. MECON has been asked to deploy additional resources to expedite the jobs.</li> <li>Refractory work is in progress &amp; 2800 T/17082 MT done.</li> <li>Silica brick lining 4P completed. 5P to 6P, 7P-10P, 11P-14P is in progress.</li> <li>CO gas pipe Line 180M shifted to cellar.</li> <li>Saddle work for BF line completed.</li> <li>End bench-14: all 8 columns completed.</li> <li>PLC room casting done.</li> <li>Refractory erection : 17082 /5226 T completed.</li> </ul>					
1A	Coke Oven Doors & Door Frames	Simplex	Rs. 10.80 Cr Net of ITC on GST	4.4	08.05.2018	Sep'20 (Supply completed)
	<ul style="list-style-type: none"> <li>LOA issued to M/s Simplex at Rs. 10.80 Cr Net of ITC on GST on 08.05.18 against Consultants estimate of Rs. 10.40 Cr.</li> <li>Contract signed &amp; Kick off meeting held on 01.08.18.</li> <li>Design &amp; Engineering completed.</li> <li>All 152 nos. of doors &amp; 142 nos. of Doors Frame supplied at site.</li> </ul>					
2	Procurement of Silica bricks and Silica mortar	OCL	NOC :41.48 Gross : 41.49	37.5	25.11.2016	Dec'20
	<ul style="list-style-type: none"> <li>Brick shape album handed over to M/s OCL on 01.04.17.</li> <li>Supply of Fireclay refractory –5540/5540T done.</li> <li>Supply of Silica brick completed– 9720/9720 T done. Silica Mortar 800 T/1220T recd.</li> <li>Refractory Erection started.</li> <li>Delay in supply due to self-life of mortar.</li> </ul>					
4	Oven Machines	BEC 1 pusher, 1 guide cars &1 charging car	NOC : 22.60 Gross : 24.49	17.8	03.12.2016	Nov'20
	<ul style="list-style-type: none"> <li>Contract signing &amp; Kick off meeting held on 13.12.16.</li> <li>Design &amp; Engineering - 162/166 nos submitted.</li> <li>Pusher Car-1 no.; Charging car-1 no.; Guide car-1 no supplied at site.</li> <li><u>Pusher car</u></li> <li>Alignment of trolley line for pusher car-2 done</li> <li>Front for erection for Pusher Car – 1 No. has been given on 25/02/2020.</li> <li>Erection of Pusher car started on 24.03.20. Erection – 155 T / 250T completed. Electrical Cabin, Door extractor, pusher room erection in progress. Erection of electrical cabin completed. Laying of Chequered Plate (Flooring) outside Electrical cabin completed. Erection for Door extractor &amp; Cleaner completed. Erection Door Frame in progress. Erection of electrical panel in progress.</li> </ul>					
3 & 5	<b>Common Packages of COB-7&amp;8</b>					
	LOA issued on M/s MECON for Quenching system on 04.09.15					
	LOA issued on M/s Paul Wurth India for Coal Handling & Coke Sorting plant on 12.06.15					
-	Quenching system	MECON	NOC : 16.73 Gross : 17.73	17.73	01.10.2015	Aug'17 / Jun'18
	<ul style="list-style-type: none"> <li>Quenching system put into use on 28.12.17.</li> <li>PAC issued on 23.01.18.</li> </ul>					
-	Coal Handling & Coke Sorting plant	M/s Paul wurth India Pvt. Ltd & M/s N. P. Construction	NOC : 16.17 Paul wurth -11.26 cr N. P : 4.91 cr Gross : 17.53 Paul wurth -12.23 cr N. P : 5.30 cr	17.53	10.07.2015	Mar'17
	<ul style="list-style-type: none"> <li>All major jobs completed which include Coal tower-4, Crusher area, Wharf area and New PLC room.</li> <li>PAT (Primary acceptance test) done in Mar'17, PAC issued on 17.04.17.</li> <li>CC issued on 06.01.18.</li> </ul>					
6	Geotech Investigation	CEG Test House	8.34 lakh	8.34 lakhs	20.02.15	Aug'15 (Completed)
	Completion: 2 Month. Soil report received on 17.04.15.					

6. **CONSTRAINTS / ISSUES TO BE TAKEN UP:**

CONSTRAINTS / ISSUES FACED	CORRECTIVE ACTION TAKEN
<ul style="list-style-type: none"> <li>- Main package of Civil work for COB #8 – ordering delayed</li> <li>- Starting of Civil works</li> </ul>	<ul style="list-style-type: none"> <li>- Progress reviewed by Chairman, SAIL on 23.10.17.</li> <li>- Letter sent to CMD, MECON from CEO, BSL to expedite the ordering of Civil works for Battery Proper on 25.10.17.</li> <li>- Subsequently, order placed by MECON on M/s N P Constructions on 31.10.17 for Civil works.</li> </ul>
Delay in firming-up of Coke Oven Doors & Door Frames package	<ul style="list-style-type: none"> <li>- Order placed on 08.05.18.</li> </ul>
Slow progress of Temporary Oven Protection Roof (TOPR) erection	<ul style="list-style-type: none"> <li>- Delay in appointing the agency for civil &amp; structural works by main contractor, M/s MECON.</li> <li>- Slow progress of civil jobs and delayed supply of fabricated structures by M/s MECON.</li> <li>- 14 nos. TOPR column and platform brackets have been provided by BSL, on returnable basis, to expedite the TOPR erection jobs.</li> </ul>
Sub-contractor of MECON for Civil works M/s NP Construction is not able to pay to their workers. This is affecting progress.	<ul style="list-style-type: none"> <li>- Site work has been slowed down/stopped by the sub-contractor of MECON ie M/s NP Constructions from 3<sup>rd</sup> week of Dec'18 due to non-payment to its workmen. Issue is being discussed.</li> <li>- Letter sent to CMD, MECON on 02/03/2019 by D (P&amp;BP) regarding expediting the site work at COB-8.</li> <li>- 1<sup>st</sup> Engineer's notice issued on 21.09.19 for slow progress of work. Thereafter, MECON have increased resources at site.</li> <li>- As the progress of work at site is not in tandem with the revised scheduled date of completion, Director (P&amp;BP) vide letter dated 27.02.20 requested CMD, MECON for intervention in the matter to expedite the progress of project. CMD, MECON has reconfirmed completion of project in scheduled time.</li> </ul>
The issue of Additional Repair of Deck Slab civil structure is still pending between the contractor-MECON and consultant-CET.	<ul style="list-style-type: none"> <li>- Go-ahead letter given to MECON on 24.12.2018.</li> <li>- Change order issued on 20.03.19 for repair of Nozzle deck slab civil structure.</li> </ul>
Site works got affected in view of National Lockdown due to COVID-19	<ul style="list-style-type: none"> <li>- Force Majeure clause has been invoked</li> <li>- All site activities were stopped. This may affect the completion of the project. The work has resumed from 13.05.2020.</li> <li>- As the progress of work at site is not in tandem with the revised scheduled date of completion, Director (P&amp;BP) vide letter dated 25.07.20 requested CMD, MECON for intervention in the matter to expedite the progress of project. CMD, MECON vide his letter dt. 30.07.20 has indicated that completion of project likely by i.e Jul'21 against the earlier anticipated schedule of May'21 due to COVID-19 pandemic.</li> </ul>

7. **PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Co-ordinator	Project Manager
GM/CO&BPP	BK Singh DGM(R&R)/CO&BPP	AK Thakur DGM(P) CO&BPP zone

**BSL – Up gradation of 06 nos. of ESP's of Lime kiln**

1.	<b>PROJECT:</b> Up gradation of 06 nos. of ESP's of Lime kiln	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Jan'17
ii)	Original approved date of commissioning	Jun'19
iii)	Now anticipated	Feb'21
3.	<b>COST (Rs. in Cr.)</b>	
i)	Original approved	Rs. 25.56 Cr (Cenvat benefit Rs 2.61 Cr)
ii)	Expenditure till Mar'20	Rs.11.63 Cr
iii)	Expenditure in 2020-21 (up to Sept'20)	Rs.2.74 Cr
iv)	Cumulative expenditure up to Sept'20	Rs.14.37 Cr

4. **BENEFITS ENVISAGED**

The project is to bring down the Stack emission level of Refractory Materials Plant from the present level of 380-1200 mg/Nm<sup>3</sup> to within the Statutory norm of 150 mg/Nm<sup>3</sup> and futuristic norm of 50 mg/Nm<sup>3</sup>.

5. **PHYSICAL PROGRESS OF WORK**

- LOA issued to M/s Thermax Limited on 14.01.17. Agreement signed on 23.03.17.
- Kick-off meeting held on 09.02.17.
- Basic Engineering: 23/24; Design Engineering: 33/46 nos. completed.
- Supply of discharge & collecting received at site.
- Erection of Monorail done.
- ESP 6: Work Completed. Put into operation on 22.03.18.
- ESP1: Exhauster started on 22.1.19. Kiln light up done & put into operation on 01.02.2019. Under stabilization.
- ESP3: Shutdown received on 02.04.19 for 62 days. Kiln no-3 light up done & put into operation on 29.06.19.
- ESP 4: Shutdown for ESP-4 received on 27.08.19 for 62 days. Put into operation on 16.01.2020. Under stabilisation. PAC issued.
- ESP 5: Shutdown received on 03.03.2020. All works completed and put to use in Set'20.
- ESP 2: Preparation for shutdown from 15.12.2020 is under progress.

6. **CONSTRAINTS / ISSUES TO BE TAKEN UP:**
- 1<sup>st</sup>Engineer notice issued on 25.07.18.
  - Availability of Shut down for 60 days.

7. **PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Co-ordinator	Project Manager
GMRMP	S Jayam, DGM/RMP	Sanjay Kumar DGM(P) RRMP, SP & AS Zone

**BSL – Development of Alternate System for Drawal of Raw Water from Damodar River for Bokaro Steel Plant and Township**

1.	<b>PROJECT</b> :Development of Alternate System for Drawal of Raw Water from Damodar River for Bokaro Steel Plant and Township	
2.	<b>SCHEDULE:</b>	
i)	Zero Date	Dec'18
ii)	Original approved date of commissioning	Mar'20
iii)	Now anticipated	Mar'21
3.	<b>COST</b> (Rs. in crore)	
i)	Original approved	98.37 (net of ITC of 9.37 Cr)
ii)	Expenditure till Mar'20	Rs.11.11 Cr.
iii)	Expenditure in 2020-21 (up to Sept'20)	Rs.3.25 Cr.
iv)	Cumulative expenditure up to Sept'20	Rs.14.36 Cr

4. **BENEFITS ENVISAGED**

The Proposal is a technical necessity and is of the nature of insurance scheme to provide an alternate supply system of raw water from Baidhmara Weir in addition to the existing Tenu Canal in order to eliminate dependency on a single source and avoid any production loss in future due to disruption of water supply. On completion of the proposed system, Tenu Canal can be taken up for repair in phases for longer duration.

5. **PHYSICAL PROGRESS OF WORK**

- LOA issued to M/s Zuberi Engg Co. & M/s H N Construction Pvt Ltd on 29.12.18, Contract signed on 16.01.19.
- Survey work started on 16.01.19.
- A set of drawings for laying pipe-line under the Railway tracks has been submitted to concerned division of Railways i.e, Adra and the same has been cleared by the Railways.
- Notice of negligence issued to party on 16.10.19.
- Master drawing list approved on 15/03/19. General Layout drawing approved on 10/04/19.
- Excavation at Pump house started on 08.06.19.
- RCC approach road 500 Cu.m./500 Cu.m. done.
- Excavation work of approach channel started on 01.07.19. Rock was encountered during excavation which requires blasting. Permission for controlled blasting obtained from DC Bokaro on 20.07.2020.
- Land allotted for installation of Batching Plant has been accepted by the party.
- Electrical sub-str: Column concreting completed. Roof slab done. Brick work and finishing are balance.
- Wrapping & coating of pipes is in progress.(470/4160M done).
- Jointing of pipes at site (1400dia & 1000dia both) is in progress. Laying of pipe:170/4160 M don
- The progress of work has been affected by local villagers. A meeting in this regard has been conducted by BSL with SDM (Chas) on 19.05.2020 to resolve IR problem, to enable start of site activities. Assurance has been given by SDM to resolve the IR issues shortly. The contractor has been advised to re-start the job.

**Jack Pushing**

- Signing of Contract agreement for Jack Pushing with S.E Railway held on 16.06.2020. Joint site visit carried out with Railway Engineers and contractors on 25.07.2020 for jack pushing under railways lines.

**Power Supply Package**

- LOA issued to M/s DVC on 08.01.19. Payment (Rs. 7.08 Crs.) on depository basis to M/s DVC made on 31.01.19.
- Meeting with DVC held on 29.01.19 at Kolkata. M/s DVC assured to give power supply by July'20.
- Meeting held on 29/04/19 at DVC, Maithan.
- NIT issued on 03/05/2019 with due date 03/06/19.
- Contract awarded to M/s ABN Tower by M/s DVC.
- Site handed over by M/s DVC on 21.11.19.
- Survey work completed.
- 80T Free issue of material handed over to M/s DVC on 20.02.2020.
- Rail pole shifting and Pit marking completed. Erection of 12/16 four pole done.

6.0 **CONSTRAINTS / ISSUES TO BE TAKEN UP:**

CONSTRAINTS / ISSUES FACED	CORRECTIVE ACTION TAKEN
Rock encountered during excavation for bay.	An agency for blasting of the same has been finalized by the Contractor. A meeting in this regard was conducted by ED (P&A) with SDO, Chas to expedite the clearance of control blasting so that blasting work can be started. Permission received for blasting in Jul'20.

<p>The progress of work has been affected by local villagers.</p>	<p>A meeting in this regard was held with SDO (Chas) on 19.05.20 to resolve IR problem to enable start of site activities. Assurance has been given by SDO to resolve the IR issues shortly. The contractor has been advised to re-start the job. SDM (Chas) visited site on 17.06.2020 and instructed to carry out cadastral survey for determining individual plot no. of villagers. However, when Survey work was commenced on 07.07.2020, local villagers have obstructed the same. SDM (Chas) has been appraised</p> <p>BSL has made a survey plan for proposed pipeline by super-imposing on the available drawings and submitted to Special Land Acquisition Officer. A copy has been given to SDM, Chas and DC, Bokaro</p>
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**7. PROJECT OWNER/ CO-ORDINATOR/ MANAGER:**

Project Owner	Project Co-ordinator	Project Manager
Shri L. Upadhyaya, DGM(WMD)	-	S/Shri A Das / R Ranjan-

## CFP: 4 MW Power Plant

1.	<b>PROJECT:</b> Installation of 4 MW Power Plant	
2.	<b>SCHEDULE:</b>	
	i) Zero Date	Sep'12
	ii) Original date of commissioning	Mar'14 (18 months)
	iii) Now anticipated	Contract terminated in May'19. Tendering for balance work is under progress.
3.	<b>COST</b> (Rs. in Cr.)	
	i. In-prin. approved Cost	Rs.39.19 Cr. (net of cenvat credit of Rs.2.36 Cr.)
	ii. Expenditure till Mar'20	Rs.10.46 Cr.
	Expenditure in 2020-21	-
	Cumulative expenditure up to Sep'2020	Rs.10.46 Cr.

#### 4. BENEFITS ENVISAGED

- For utilizing excess gas generated from 45 MVA SAF as fuel for power generation.
- Generation of 20,670 MWh exportable power.

#### 5. PROGRESS OF WORK:

SN	Package	Party	Cost (Party Wise)	Expenditure (till Jun'20)	Eff. Dt of contract (LOA)	Schedule (Likely/ Actual)
1	4 MW Power Plant	M/s Tecpro Systems Ltd, Chennai <b>RPN was issued to M/s Tecpro on 31.12.13 and contract was terminated on 19.09.14.</b>	<b>Evaluated Cost;</b> Rs.33.47 Cr (net of cenvat)			
	<b>Balance work after RPN</b>	M/s Resurgent Power Projects Ltd, Chennai. <b>RPN was issued on 25.04.19 and Termination notice issued to the contractor 29.05.19</b>	<b>Evaluated cost:</b> Rs.32.73 Cr. (net of Cenvat).	Rs.10.46 Cr	16.10.14	RPN action
<b>STATUS</b>						
<ul style="list-style-type: none"> <li>✓ <b>Name of company changed from M/s ENMAS GB POWER SYSTEMS PROJECTS LTD, CHENNAI TO M/s RESURGENT POWER PROJECTS LIMITED.</b></li> <li>✓ Basic and detail Engineering is in progress. Drawings and data sheets being submitted to CET for approval. Approval/ comments on the drawings are in process by CET.</li> <li>✓ <b>Turbine Building</b>: casting of tie beam at 2.4 mtr. Is in progress. Casting of deck slab completed.</li> <li>✓ <b>Cooling Tower</b>: Casting of wall upto 12 mtr completed.</li> <li>✓ <b>Pump House</b>: Casting of roof completed.</li> <li>✓ <b>Booster House</b>: Construction of Booster house completed. Flooring work is under progress.</li> <li>✓ All Gas Pipeline structure foundations from furnace to new Booster house and from new booster house to old Booster house completed.</li> <li>✓ <b>Gas Pipeline structures</b>: Pipeline structure erection from Furnace to new Booster house and from new Booster House to old Booster house is under progress. Approximately 66 MT of structural erection completed at site. Fabrication and erection of gas pipeline structural is under progress.</li> <li>✓ <b>Gas Pipeline</b>: 600 NB Gas pipeline erections from Furnace to Old Booster House is under progress. Approximately 350 mtrs of pipeline laying from Furnace Building completed. One Booster fan gas pipeline connections and 600 NB valves erection completed. U seal water pipeline and nitrogen pipeline work is under progress.</li> <li>✓ Very Poor work progress by M/s Resurgent Power Projects Ltd due to pending payment issues with sub-contractors and suppliers. Party has also stopped work at site since April 2018.</li> <li>✓ Although Work at Site has been restarted by Contractor from 4<sup>th</sup> June 2018, the work progress at site was slow due to pending payment issues with suppliers and Contractors.</li> <li>✓ Alternate plan was worked out with CET for RPN against Resurgent. CET was assigned work for preparation of TS of the balance work. The sub vendors of M/s Resurgent for important materials like Turbine, Boiler etc were contacted directly and the readiness of material was assessed. The list and status of the same was submitted to CET for preparation of TS for pending work and supplies of the Power plant.</li> <li>✓ Draft TS for RPN was received from CET on 31<sup>st</sup> August 2018 and the same was reviewed at CFP.</li> <li>✓ A meeting was held at CFP along with Directors of M/s Resurgent wherein they had committed to release funds amounting to Rs.10 lakhs for site work immediately but the funds of Rs.2 lakhs was only released.</li> <li>✓ Cable tray laying work started by Contractor.</li> <li>✓ Validity of the Contract has expired on 12<sup>th</sup> October 2018. M/s Resurgent Power Project Ltd has completely stopped work at site from that date.</li> <li>✓ Risk Purchase action taken and Termination notice issued to the contractor vide letter 29.05.19.</li> <li>✓ Contractor submitted request for interim stay on the action being taken by CFP before Hon'ble Principal District Court, Chandrapur. Court summon was received on 26.08.2019. Preliminary reply submitted from SAIL-CFP end on 29.08.19.</li> <li>✓ Reply to application of contractor before court for interim stay was submitted on 09.09.19. Further, request for extending date of submission of reply placed before Hon. Court placed on 07.10.19.</li> <li>✓ Reply submitted before Hon. Court on 25.11.19 and Case was heard on 16.12.19</li> <li>✓ Further, Case was heard on 27.01.2020 and next date is on 13.04.2020, however, it is likely to be extended in view of present lockdown due to COVID-19 crisis.</li> <li>✓ <b>Approval to separate out scope of SAF Gas booster house from main (4 MW PP) contract for completion of balance jobs of booster house accorded. TS and cost estimate for balance work of SAF Gas booster House has been received from CET.</b></li> <li>✓ <b>NIT for balance work of SAF Gas booster House issued on 08.07.2020 with TOD of 25.08.2020 which was extended</b></li> </ul>						

SN	Package	Party	Cost (Party Wise)	Expenditure (till Jun'20)	Eff. Dt of contract (LOA)	Schedule (Likely/ Actual)
upto 07.09.2020 & further upto 13.10.2020.						

#### 6. CONSTRAINTS FACED:

CONSTRAINTS / ISSUES FACED:	CORRECTIVE ACTION TAKEN
Poor progress by M/s Tecpro.	Alternate agency engaged after RPN.
<ul style="list-style-type: none"> <li>✓ Very Poor work progress by M/s Resurgent Power Projects Ltd due to pending payment issues with sub-contractors and suppliers. Party has also stopped work at site since April 2018.</li> <li>✓ Work restarted by Contractor from 4<sup>th</sup> June 2018 but there was no work progress at site due to payment issues with sub-contractors.</li> <li>✓ Contractor has requested CFP to release direct payments to their sub-Contractors/ sub vendors but further payment not released by Finance deptt.</li> <li>✓ Validity of contract has expired in Oct'18.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Discussions carried out with directors of M/s Resurgent for starting the site work and release of funds from their side.</li> <li>✓ Direct payment had been also released to their sub-contractors and suppliers.</li> <li>✓ Party was called for discussion on 11.02.19. Party has not attended the meeting.</li> <li>✓ Risk Purchase Notice has been issued to M/s Resurgent Power Project Ltd. On 25.04.19 and the party was advised to mobilize all the resources at site and complete the project within 15 days from the issuance of the notice.</li> <li>✓ Termination notice issued to the contractor vide letter dt. 29.05.19.</li> </ul>

#### 7.PROJECT OWNER/ CO-ORDINATOR/ MANAGER:

Project Owner	Project Co-ord.-cum-Project Mgr.	Overall Project I/c
-	Shri JP Mahto, GM (Power Plant)	Shri D.D.Bhattachar, GM (Proj)

## Assam- Hot Dip Galvanising Project at Dagaon

1.	<b>PROJECT:</b> Formation of Joint Venture for Hot Dip Galv. Line Project, Dagaon, Assam	
2.	<b>SCHEDULE</b>	
i)	Zero Date	Jan'97
ii)	Original approved date of commissioning	Jan'99 (24 months)
iii)	Now anticipated	Under Joint Venture (12M after commencement of site work)
3.	<b>COST (Rs. in Cr.)</b>	
i)	Original approved	Rs.42.85 Cr.
ii)	Anticipated	-----
iii)	Expenditure till Mar'19	Rs.15.90 Cr.
iv)	Expenditure in 2019-20 up to Sep, 2020	Nil
v)	Cumulative expenditure up to Sep, 2020	Rs.15.90 Cr.

#### 4. PHYSICAL PROGRESS OF WORK

The work was awarded to MECON in Jul'97 (completion: 18 months). Civil work was in advance stage of completion and equipment supply had also started. However, due to delay in completion of approach road & the bridge work by Govt. of Assam and stoppage of work due to heavy rains & floods in the area, the project got delayed. In view of the time and cost overrun of the project, M/s IFCI re-appraised the project in Oct'99 and indicated that under the existing conditions and without fiscal incentives (viz. exemption from excise duty & income tax etc.), the project is not financially viable. Accordingly, SAIL Board in Mar'00 decided that project be kept in abeyance and alternate strategies, including identification of suitable party who may be interested in owning and executing the project, may be examined.

The work was suspended in Apr'00, M/s North East Steel (NES), Guwahati were selected as prospective JV partner in Jul'01 on preliminary basis and approval of SAIL Board for formation of JV Company (JVC) and Memorandum of Understanding (MOU) with M/s NE Steel Pvt. Ltd. (NESPL- the newly incorporated company with consortium members of erstwhile NES as its Directors) was obtained in May'02.

After discussion/negotiation with MECON in Jul'2004, SAIL's liabilities were crystallized at Rs.5.16 Cr. (Rs.2.91 Cr. payable to MECON as per Contract Agreement for the work already executed/to be executed and Rs.2.25 Cr. payable as per the negotiated/mutually agreed commercial settlement). Consent of NESPL for additional liability of Rs.2.25 Cr. on the proposed JVC was received in Jul'04 and approval of Chairman was obtained in Aug'04 for the above liability.

The modified MOU with NESPL and Tripartite Agreement with MECON & NESPL were signed in Mar'05. The JVA, along with the MoA & AoA, was signed with NESPL in Nov'05. JVC named M/s NE Steel & Galvanising Pvt. Ltd. (NESGPL) has been incorporated in Dec'05. Rs.3.07 Cr. was deposited by NESPL with NESGPL in Apr'06 and Rs.2.25 Cr. has been paid by NESGPL to MECON on May'06. Subsequently, the Deed of Transfer has been signed in Jun'06 amongst MECON, SAIL and NESGPL for transfer of the turnkey contract of MECON from SAIL to NESGPL.

De-reservation of HDGL land was approved by GoA in Sep'07 and the land records have been corrected. For further actions of payment of land revenue tax from 1997 to 2007 and issuance of 'Patta' for this land in SAIL's favour (so that SAIL's rights on the land can be transferred to NESGPL), SAIL's follow-up with state Govt. since Oct'07 has not borne any fruit. As the HDGL land has not yet been transferred to NESGPL, no further action could be taken by them on resuming the site work.

In the meantime, the Committee constituted at CO had recommended closure of NESGPL and the report was submitted to D (T) in Jul'10. For initiating the legal process for closure of the JVC, BSC note was processed in Jul'13 but kept on hold to have discussions with NESPL to have a smooth closure of the JVC. Since discussions with NESPL proved futile, the BSC note was processed again in Oct'14.

After receipt of opinion of Corporate Law Dept. in Mar'16, proposal for winding-up the JV company was put-up to the BSC for JVs & SAs in their meeting held on 27.06.16.

As desired by BSC, before initiating process for winding up of the JVC, a letter dtd. 06.07.16, 23.01.17 and on 01.08.17 has been written to Principal Secretary (PS), Govt. of Assam for getting a formal opinion. HDGL issues are being followed up with PS, Assam and reply are awaited; matter was also informed and followed up with the Chief Secretary (CS), Assam vide email Dtd. 15.09.16 but no information has been received from CS office. Also, as desired by the BSC, information regarding SAIL's intention for winding up of the JVC was communicated to JVC partners on 23.01.17. Parallely, techno-economics has been updated by CET to 3<sup>rd</sup> Qtr 2016 and according to that, project is not economically viable.

As already one year lapsed and no formal opinion received from Govt. of Assam, again proposal for windingup of the project was considered by the Board Sub-Committee on Strategic Alliances and Joint Ventures in its meeting held on 10.08.17. As decided by BSC, for fast track winding-up, the documents have been forwarded to Business Planning. In this regard, consultant has been appointed by Business Planning and draft report submitted by the consultant in Jan'18.

For taking up the stock of the equipments lying at site, comprehensive list has been prepared by SAIL, HDGL personnel. A committee to accomplish various tasks involved in reconciliation of material and facilitate in shifting it to BSL (by CMO, Guwahati) as well as the activities to be taken up thereafter formed and its first meeting held at Guwahati on 9-10.05.18.

The Committee has recommended that as a first step, the equipment and other materials identified by them which are lying at the site be shifted to Bokaro Steel Plant, (as originally HDGL Project was linked to BSL).

SAIL Board in its meeting on 20.09.18, has approved the proposal for winding-up of M/s NE Steel and Galvanising Pvt. Ltd (NESGPL), Assam. The Board authorized CEO, BSL to take/approve actions as deemed necessary for shifting of materials lying at Dagaon site of NESGPL, Guwahati, Assam to BSL for further utilization/disposal.

Subsequent to the Board approval on 20.09.18, a committee has been constituted by BSL, comprising of representatives from BSL and BSO, Guwahati to take actions, as deemed necessary for shifting of materials lying at Dagaon site of NESGPL to BSL for utilization/disposal. Committee has visited NESGPL site at Dagaon from 3rd – 4th Jan'19 and identified equipments for shifting/disposal and decided that :

- out of 99 items, 25 items were identified as useful
- another set of 5 items as partly useful.
- balance 69 items of equipment were not found suitable for use at BSL and to be disposed off on as is where is basis.
- fabricated structures (not erected) as well as erected structures may be disposed off on as is where is basis.

Accordingly, actions for shifting the material to BSL were initiated and transporters along with truck and crane reached the project site. However, villagers/ local people gathered and did not allow them to shift any material, inspite of discussing the matter with them several times.

Commissioner & Secretary (Department of Industries & Commerce) Govt. of Assam vide letter dated 14.2.2020, requested for handover of allotted land to Govt. of Assam. In reply to the above, D(P&BP), SAIL, vide letter dated 18.3.2020 sought administrative support for shifting of material.

In response, Secretary to the Govt. of Assam, Industries Commerce Department vide letter dated 06.05.2020 assured to provide all administrative assistance for shifting of material from project site at Dagaon to Bokaro Steel Plant.

Tender for shifting of material was issued on 16.05.2020 with TOD on 26.05.2020, as no offers received, CMO again issued tender on 27.05.2020 with TOD 06.06.2020. Three bids were received and order has been placed on M/s Logistics Transport of India Ltd. It was planned to transport the identified material to BSL on 22.06.2020, however due to rain same could not be materialised. Thereafter, efforts were again made on 13.08.2020 (although administrative support was not available due to Independence Day celebration) job could not be started as local people did not allow the same. CMO is discussing the matter with authorities and the next date along with administrative support shall be decided shortly.

Dir (P &BP) has written a letter to Secretary to the Govt. of Assam, Industries & Commerce Deptt on 25.09.2020 regarding the same.



**“Development and Operation” of 14  
MTPA Iron Ore Mines at Rowghat**

## **Development and Operation” of 14 MTPA Iron Ore Mines at Rowghat”**

<b>1.</b>	<b>PROJECT:</b> “Development and Operation” of 14 MTPA Iron Ore Mines at Rowghat	
<b>2.</b>	<b>SCHEDULE:</b>	
i)	Zero Date	Sep'17
ii)	Original approved date of commissioning	30 years (including 5 years of Construction and 25 years of Commercial Production)
iii)	Original approved mining fee	Rs.440/- ton of unscreened ore

### **3. BENEFITS ENVISAGED**

To ensure timely availability of quality raw materials to Bhilai Steel Plant. Balance iron ore reserves in Dalli-Rajhara mines is presently assessed to be around 70 Million tonnes and the major mineable portion of the same is likely to get exhausted in 5 to 6 years. It is, therefore, of critical importance that alternate sources of iron ore are tapped in the vicinity of the Steel Plant. Rowghat Hills is a suitable source for feeding the future ore requirement of BSP.

### **4. PHYSICAL PROGRESS OF WORK**

SN	Package	Party	Mining fee	Eff. Dt of contract	Schedule (Likely/ Actual)
1	“Development and Operation” of 14 MTPA Iron Ore Mines at Rowghat	Consortium of M/s ACB (India) Ltd. and M/s Sainik Mining and Allied Services Ltd.	Rs.440/- ton of unscreened ore.	25.09.17	30 years (including 5 years of Construction and 25 years of Commercial Production)
<b>STATUS</b>					
<ul style="list-style-type: none"> <li>• Final approval accorded by SAIL, Board in its 443<sup>rd</sup> meeting held on 30.06.2017.</li> <li>• Sanction letter issued on 31.07.2017.</li> <li>• LOA issued to Consortium of M/s ACB (India) Ltd. and M/s Sainik Mining and Allied Services Ltd.on 01.08.2017.</li> <li>• Contract signed on 25.09.2017.</li> </ul>					

### **5. STATUS:**

- Site visit done by the party on 09.10.17.
- Bank Guarantee of requisite amount submitted by Party on 10.10.17.
- Letter issued to party (dt.17.10.17 & 09.12.17) to deploy equipment for maintenance of approach road to Rowghat Mines and submit L-2 network as per the contract agreement but no action was taken by the party.
- A reminder letter issued to Project Head of M/s ACB on 22.12.17, again mentioning to submit all the statutory information as per the contract agreement. However, there was no response from the party.
- A warning letter issued to GM (Business Development) and Project Head (Rowghat Project) M/s ACB on 05.02.2018, to commence the work and submit the work plan at the earliest, failing which it will be assumed that M/s ACB is not interested to fulfill agreement obligations as per the contract and management shall proceed as deemed fit.

### **6. CORRECTIVE ACTION TAKEN:**

1. Vide letter dt.20.02.2018 M/s ACB informed that Machine (1 Nos Dozer) along with operator has been deployed at Rowghat site for maintenance of approach road to Rowghat Mines.
2. Meeting held with M/s ACB (India)Ltd. on 19/03/2018 at Bhilai. M/s ACB (India) Ltd was asked to urgently appoint the consultant for DPR preparation and mines development.
3. L-2 Network submitted by M/s ACB (India) Ltd. on 27/04/2018.
4. Expression of Interest (EOI) issued by M/s ACB (India) for DPR preparation.
5. Six person (1Dy Manager (HR), 1Mining Mate,1 Geologist,1 Mining Engg & 2 Mechanical Engg) were appointed & posted at Rowghat by M/s ACB (India).
6. Office building allotted by SAIL/BSP at Bhilai to M/s ACB (India) Ltd, has been operational from 1<sup>st</sup> June 2018.
7. Float ore Sample collected by M/s ACB from Block-A, Rowghat on 5th June 2018.
8. Vide letter Dt 09.06.2018, draft L-2 network returned back to M/s ACB (India) for revision as per comments of CET.
9. SAIL/BSP deposited amount for tree enumeration of Rowghat Mining area on 15.06.2018. Vide letter dt.16.06.2018 & 06.07.2018, M/s ACB was instructed to facilitate tree enumeration work as per the contract agreement.
10. Tree enumeration work of Rowghat Mining area commenced from 09.07.18 onwards.
11. It was informed by M/s ACB Mining that LOI had been issued on 29.09.2018 to M/s ELITECH EARTH SCIENCE PVT LTD for DPR preparation.
12. Differential Global Positioning System (DGPS) work along with pillar installation (Block-A, Foot Hill, Dump A, & Hill Top) completed by BSP.
13. Security camp at Khorgaon established on 16.01.2019.
14. Sample collection work (manually) done by M/s ACB from 28.01.2019. Sample collected from 12 locations.
15. Equipments deployed by M/s ACB from 13.03.19 to 22.04.19 for maintenance of road.
16. DPR preparation under progress.
17. MDO has deployed equipments for preparation of road from JALTOP to BLOCK-A. Work done till 28<sup>th</sup> March, 2020.

### **Status of progress made by M/s Elitech (Consultant DPR Rowghat-as informed by MDO):**

1. Computerized Graphic logs of all the bore holes have been prepared for the further interpretation and development of cross sections. However, final report will be submitted after final verification on field.
2. Work on Geological Report has been started. It needs to be prepared afresh as the cut-off has been changed from 55%Fe to 45%Fe.
3. Geological Cross Sections of Raodongri block is completed. Cross sections of Tarhur, Anjrel Blocks is completed.
4. Drone Survey work completed.
5. Review of all the available data is completed.
6. Area has been earmarked for borehole drilling for collecting core sample (4.11.2019).
7. Appointed a party for drilling of boreholes for core samples.
8. Area has been surveyed for security camp establishment at Block – A.
9. Proposals for Infrastructure facilities such a power, water supply and road connectivity for the proposed camp site have been initiated.
10. ACB mining has appointed agency for construction of approach Road to proposed security camp site. The agency worked till 28<sup>th</sup> March 2020.
11. **Exploration drilling to be commenced by M/s ACB after establishment of camp at Block-A.**
12. **Physical establishment of camp is under progress; Camp establishment at Block-A tentatively by Oct/ Nov'2020.**

# **PROJECTS UNDER RPN & ARBITRATION**

**Arbitration cases in Capital Projects**

Plant / Unit : Bhilai Steel Plant

**On-going Cases**

Sl. No.	Name of the package & Pkg. No.	Name of the party	Claim of the Party	Claim of Plant/Unit	Claimant Initiated by (Party / SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reason for Arbitration	Present Status
1	2	3	4	5	6	7	8	9	10	11
1.	External Water System for SMS-III (Pkg.077-01)	M/s Aireff Detox Pvt. Ltd., Thane, M/s Himgiri Cooling Tower Thane & M/s. Model Infra Corpn. Pvt. Ltd., Bangalore	Nil	Rs.194.02 Crs [net of BG encashed]	SAIL-BSP (Dealt by Corporate Law)	D K Pouriya, GM (Projects)	Yet to be appointed	Scope	Contract Terminated due to Party's default	<p><b>Contract Terminated on 03.03.2016.</b></p> <p><b>Date of Award of Contract for balance work - 15.12.16</b> (Awarded to L&amp;T)</p> <ul style="list-style-type: none"> <li>• Conciliation has failed.</li> <li>• Relevant documents have been forwarded to corporate law for initiation of arbitration proceedings.</li> <li>• A meeting held on 12.12.18 between BSP and advocates at Delhi for preparation of claim.</li> <li>• Projs-Utility Zone forwarded the Prayer Paragraph, affidavit and vakalatnama, duly seal &amp; signed to Corp. law through post in March 2019 for filing Arbitration.</li> <li>• Lawyer (DSK legal) on 06.05.19 filed Statement of Claim on behalf of SAIL before the SCOPE Forum.</li> <li>• As informed by Lawyer (DSK Legal) Copy of SOC not received by Party as office is found closed twice and further "SHIFTED "to unknown place.</li> <li>• Lawyer (DSK Legal) is exploring to claim with Consortium members.</li> <li>• Vide e-mail 30.11.2019 Corporate Law ,SAIL informed that one of the consortium partner M/s HIMGIRI Cooling Tower has submitted SOD.</li> <li>• SCOPE has sent a Demand Note to Deposit required Arbitration fees at the earliest.</li> <li>• Arbitration fees deposited by SAIL, BSP and further course of action is awaited.</li> <li>• Arbitral panel is yet to be formed by SCOPE.</li> </ul> <p><b>Amount Recovered:</b></p> <ul style="list-style-type: none"> <li>• Mobilization BG: Rs.3.07 crs &amp; Performance BG: Rs.5.89 crs encashed on 05.03.16.</li> </ul>

Sl. No.	Name of the package & Pkg. No.	Name of the party	Claim of the Party	Claim of Plant/Unit	Claimant Initiated by (Party / SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reason for Arbitration	Present Status
1	2	3	4	5	6	7	8	9	10	11
2.	Fire protection system for BRM & URM (Pkg.126-02)	M/s Agnice Fire Protection Ltd. Kolkata	Nil	Rs 7.67 Cr [net of BG encashed]	BSP	M T Rao, GM (Projects)	-	-	Party proposing changes in contract & demanding extra price	<p><b>Contract Termination - 22.10.2016</b>  <b>Date of Award of Contract for balance work - 12.01.17</b>  (Awarded to Thermosystems)</p> <p><b>Amount Recovered:</b>  Performance BG: Rs 81.04 lakhs has been encashed on 17.10.2016.</p> <ul style="list-style-type: none"> <li>• Conciliation has failed.</li> <li>• Relevant documents have been forwarded to corporate law for initiation of arbitration proceedings on 01.10.18.</li> <li>• CO Law informed vide email 08.01.19 that Advocate has been appointed in the matter. The documents have been handed over to handling Advocate and being followed up for preparation of statement of Claim.</li> <li>• Vide email dt 26.03.2019, CO Law submitted draft SOC for observation to Proj Zone for necessary comments. Proj Zone vide email dt 13.04.2019 forwarded observation on draft SoC to CO.</li> <li>• Proj Zone vide email dt 30.07.19 forwarded revised observation on SoC to CO.</li> <li>• Meeting held during 01.08.19-02.08.19 with Advocate at Noida,</li> <li>• Revised SOC submitted to Advocate/Corporate Law on 21.08.2019.</li> <li>• Reminders sent to Corporate Law on 21.09.19 &amp; 21.10.19 regarding updated status. Corporate Law has not finalized Final SOC so far.</li> <li>• Final SOC sent by Advocate on 24.12.2019 and sent to Corporate Law by Projects, BSP on 08.02.2020.</li> <li>• Corrections done and Final SOC sent by BSP on 06.03.2020. Awaiting the Final papers from Corporate Law for further necessary action.</li> <li>• Final SOC (arbitration SAIL and Agnice Fire ) has been submitted on 13.3.2020 to Corporate Law/Advocate duly signed and notarized by BSP.</li> <li>• Reminder given to Corporate Law for updatoin of status on 30.04.2020.</li> <li>• The matter has been discussed with dealing advocate Mr. Sharat Kapoor on 06.06.20. and asked to expedite the case for filing of SOC.</li> <li>• Payment for registration fee (Rs. 35,400/-) for filing arbitration case in ICA, New Delhi approved on 13.07.20.</li> <li>• As informed by Corp. Office Law arbitration case filed in ICA.</li> <li>• Corporate Law have filled SOC and notice for invocation of Arbitration Corporate Law have filled SOC and notice for invocation of Arbitration as information received through e mail dtd. 10.08.2020.</li> </ul>

Sl. No.	Name of the package & Pkg. No.	Name of the party	Claim of the Party	Claim of Plant/Unit	Claimant Initiated by (Party / SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reason for Arbitration	Present Status
1	2	3	4	5	6	7	8	9	10	11
3.	Air Drying Plant for URM and Air Drying & Filtration plant for BRM (Pkg.114A)	M/s Summits Hygronics Pvt. Ltd., Coimbatore	Nil	Rs.0.62 Cr.	SAIL, BSP	Sudhir Kumar Vaid, Mgr. (Projects)	Shri R.K. Nehru, Ex. ED (MM), BSP	Sole Arbitrator	Party proposing changes in contract & demanding extra price.	<p><b>Contract Termination - 31.03.2015</b>  <b>Date of Award of Contract for balance work - 31.03.15</b>(Awarded to M/s Mellcon Engineers Pvt Ltd, N. Delhi)  <b>Amount Recovered:</b>  PBG not submitted. EMD exempted as party has submitted NSIC.</p> <ul style="list-style-type: none"> <li>• Conciliation has failed.</li> <li>• Management on 05.12.18 accorded approval to initiate arbitration proceedings and has appointed Shri R. K. Nehru, Ex-ED (MM) as the Arbitrator. Letter issued to Shri R K Nehru on 10.12.18to initiate Arbitration proceeding.</li> <li>• First hearing held on 06.03.2019. Party did not attend.</li> <li>• Second hearing held on 27.03.2019.Party did not attend.</li> <li>• Third hearing held on 20.04.2019. Party did not attend. BSP has submitted its statement of claim.</li> <li>• Fourth hearing held on 29.05.19. Party did not attend but intimated through e-mail, dt 15.05.2019 that they will be able to visit BSP in 1<sup>st</sup> week of June'19.</li> <li>• Respondent has not filed statement of defense and/or counter claim till date.</li> <li>• Fifth hearing held on 11<sup>th</sup> June'19.Party did not attend. Affidavit on evidence to be submitted by claimant, before 26<sup>th</sup> June'19.</li> <li>• Sixth hearing held on 28<sup>th</sup> June'19.Party did not attend. Next hearing held on 23<sup>rd</sup> July'19.</li> <li>• Seventh hearing held on 23<sup>rd</sup> July'18 in which the representative of M/s Summits was present. Party has submitted a petition along with affidavit. The reply of petition has been sent to M/s Summits by BSP on 31.07.19. Next hearing will be held on 9<sup>th</sup> Aug'19.</li> <li>• Eighth hearing held on 9<sup>th</sup> Aug'19. No one was present from the respondent site. Next hearing will be held on 10<sup>th</sup> Sept.19.</li> <li>• Ninth hearing held on 10<sup>th</sup> Sept'19. No one was present from the respondent site. On 1<sup>st</sup> Oct'19, hearing held for FINAL argument, in which the party was not present. Now the case is reserved for award.</li> <li>• Tribunal has awarded on 12.12.19 and asked M/s Summit Hygronics Pvt. Ltd. to pay Rs. 55, 79, 052 + Rs. 2, 15, 000 + interest amount to BSP.</li> <li>• Award passed.</li> <li>• AOP filed on 03.08.2020 in the court of District Judge, Coimbatore (TN),by M/s Summits Hygronics against award passed by Arbitrator on 12.12.2019.</li> </ul>

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1	2	3	4	5	6	7	8	9	10	11
4.	Augmentation of Make-up Water and Drinking Water System to all new units under Package No.078 of 7.0 MT Expansion project of Bhilai Steel Plant, Bhilai	Consortium of M/s Vishwa Infrastructures and Services Pvt. Ltd, Hyderabad (M/s VISPL) and M/s V Bhogeshwara Rao, Guntur	Nil	Rs.70.31 Cr. [net of BG encashed]	SAIL-BSP	D K Pouriya, GM (Projects)	-	Scope	Contract Terminated due to Party's default	<p><b>Contract Terminated on 11.04.2016</b> Party's default  <b>Date of Award of Contract for balance work - 23.06.17</b> (Awarded to Voltas, Thane)</p> <ul style="list-style-type: none"> <li>• Conciliation has failed.</li> <li>• Management on 27.03.18 accorded approval to initiate arbitration proceedings for recovery of risk &amp; cost amount. Accordingly case sent to Corporate Office on 10.04.18 for further processing.</li> <li>• A meeting held on 14.12.18 between BSP and lawyer at Delhi for preparation of claim.</li> <li>• Claims finalised and to be lodged for initiation of Arbitration.</li> <li>• Corporate Office vide email dt.20.02.19 forwarded the draft Prayer Paragraph, affidavit and vakalatnama. The same, duly sealed &amp; signed sent to Corp. law through post for filing Arbitration, which is received at Delhi on 12.04.19.</li> <li>• M/s Vishwa vide letter dt.25.04.19 informed that Corporate Insolvency Resolution Process started in their firm through NCLT.</li> <li>• SAIL BSP approached IRP through Lawyer Shri Ashish Rana.</li> <li>• SAIL is directed to file their claim directly to IRP (Liquidator) of the case Shri Hemant Sharma, New Delhi. The same will be done by 05.09.2019.</li> <li>• IRP (Liquidator) return the case as being not in his purview and asked to file the matter in NCLT, Hyderabad. Accordingly, Matter is filed on 23.09.2019.</li> <li>• Case was filed with NCLT, Hyderabad to get further direction in the matter. NCLT, Hyderabad directed liquidator on 28.10.2019 to "consider the SAIL's claim on merit". Request letter sent on 31.10.2019.</li> <li>• A meeting with IRP held at New Delhi on 14.11.2019 wherein SAIL, BSP has asked to submit proof of the claims with M/s VISPL, the same is in process.</li> <li>• Documents posted to Liquidator in wrong address caused delay in submission, hence the case rejected by him. Request has been made by BSP on 28.01.2020 to re-consider the documents.</li> <li>• SAIL's request for re-consideration of Claim papers is under process with NCLT, Hyderabad through legal counsel.</li> <li>• Hon'ble NCLT, Hyderabad is requested to consider the case by providing extension of time to submit documents to Liquidator ONLINE on 21.03.2020.</li> <li>• All the related documents are sent to SAIL's Counsel at Hyderabad on 20.05.2020 due to COVID-19 lockdown of Post Offices etc. and same has been received by him recently. The case is under filing with NCLT, Hyderabad.</li> <li>• NCLT, Hyderabad will hear the cases on priority.</li> </ul> <p><b>Amount Recovered:</b></p> <ul style="list-style-type: none"> <li>• Mobilization BG: 1.5 Cr. and -Mobilization BG: 6.35 Cr. Performance BG 4.86 Crs. Encashed in April'2016.</li> </ul>

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1	2	3	4	5	6	7	8	9	10	11
5.	External water system for Mills and fire water pump house (Pkg-77-02)	Consortium of M/s Mcnally Bharat Engineering Company Ltd and M/s Southern Cooling Towers Private Ltd, Kolkata	NIL	Rs.122.67 Cr (net of BG encashed)	BSP	DK Pouriya, GM (Projects)	Shri VK Agrawal appointed by MBECL SAIL's arbitrator not yet appointed	ICA	Contract Terminated due to Party's default	<p><b>Contract Terminated on 20.05.2016</b> due to Party's default  <b>Date of Award of Contract for balance work - 14.09.17</b></p> <ul style="list-style-type: none"> <li>• Conciliation has failed.</li> <li>• Management on 29.11.2017 accorded approval to initiate arbitration proceedings for recovery of risk &amp; cost amount. Accordingly case sent to Corporate Office on 09.01.2018 for further processing.</li> <li>• Vide letter dt.26.06.2018 M/s MBECL sent notice of claimed of Rs.119 Crs.</li> <li>• M/s MBECL vide letter dt.31.07.2018 have refuted our claims towards Risk and Cost and have invoked arbitration and appointed Shri Dr. V K Agarwal, Former Law Secretary, Govt. of India as their Nominee Arbitrator and requested to nominate an arbitrator on behalf of BSP.</li> <li>• Vide email dt.24.09.2018 Corporate law forwarded draft statement of claim for comments. The draft statement of claim is under preparation based on Zone comments dt.19.11.2018.</li> <li>• Vide letter dt.10.10.2018 (received on 22.10.2018) M/s MBECL addressed to Registrar, ICA regarding initiation of Arbitration proceedings. The same forwarded to Corporate Law vide email dt.23.10.18</li> <li>• SAIL's Claims finalised and related documents provided to advocate on 09.02.2019 for initiation of Arbitration.</li> <li>• Queries raised by SAIL's Counsel are replied and further queries received, Reply and desired documents sent through e-mail on 18.04.2019.</li> <li>• SOC filed with ICA on 04.06.2019 for an initial claim amount of INR 192.62 Cr.</li> <li>• ICA has send a Demand Note for submission of fees of Rs. 68.67 Lakh + GST +9.58 lakh stamp duty to be payable by BSP on or before 08.08.2019.</li> <li>• SAIL BSP's share of ICA fees are deposited and claim is being revised by counsel.</li> <li>• Meanwhile, MBECL has filed a case in Hon'ble Delhi High court to obtain status of "Claimant". The case is dealt by CO Law. ICA has sent a demand note to deposit the Arbitral fees for the share of RESPONDENT M/s MBECL &amp; Co. Arbitral fees as above are deposited to ICA for further course of action.</li> <li>• ICA appointed Arbitral panel under Shri T.S. Thakur , ret'd. CJI as Presiding arbitrator and 1st meeting is scheduled on 12.03.2020 at New Delhi.</li> <li>• 1st meeting held and direction of Arbitral tribunal received by both the party, next hearing is scheduled on 06.08.2020.</li> <li>• Respondent MBECL has filed an application with Arbitral Panel and the same is replied on 02.06.2020 by Claimant through Counsel.</li> <li>• Arbitration proceeding held through VC on 07.08.20. Arbitration proceeding has been reschedule with revise date and next date of hearing on 03.12.2020</li> </ul>

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1	2	3	4	5	6	7	8	9	10	11
	External water system for Mills and fire water pump house (Pkg-77-02)									<b>Amount Recovered:</b> PBG of Amount Rs. 6.08 Cr., BG against Mobilization advance of Rs. 8.36 Crs, BG against 1st Interim advance Rs. 5.60 Cr., BG against 2nd Interim advance of Rs. 5.50
6.	Installation of Medium Pressure Oxygen Production Facility of 10,450 Nm <sup>3</sup> / hour (~350 TPD) at OP I, BSP on Monthly Rental Basis	M/s Goyal MG Gases Pvt. Limited, New Delhi	Rs.81,33,06,172/-	Rs. 53.43 Crs	SAIL, BSP	Md Nadeem Khan, GM (Propane)	Hon'ble Arbitral Tribunal	Hon'ble Arbitral Tribunal	Delay in commissioning by party	<ul style="list-style-type: none"> <li>Under Arbitration before Hon'ble Arbitral Tribunal Comprising of: <ul style="list-style-type: none"> <li>i) Sh. Justice D.P. Wadhwa (Retd.) (Presiding Arbitrator)</li> <li>ii) Sh. Justice R.C Chopra (Retd.) (Nominee Arbitrator from M/s Goyal MG Gases)</li> <li>iii) Sh. Justice SATPAL (Retd.) (Nominee Arbitrator from SAIL, BSP).</li> </ul> </li> <li>Arbitration proceedings are pending due to ill health of arbitrators.</li> <li>Next date of hearing is 29.11.2019; it was decided to conduct further hearing on 21.01.2020.</li> <li>Hearing took place on 21.01.2020 in which the Tribunal directed the Claimant to explain the basis of computation of its claim towards damage. Next hearing held on 26.02.2020. Hearing concluded and matter has been reserved for award.</li> </ul>
7.	Construction of Flyover at 3 Locations & Road Network (Pkg.111-01)" of Bhilai Steel Plant, Bhilai	M/s S.P. Singla Construction Pvt. Ltd.	Rs 231.59 Crs	BSP reserved its right for counter claim.	M/s S.P. Singla Construction Pvt. Ltd.	Shri Anupam Swaroop, GM (Projects)	Justice T. S. Doabia (Retd.), Presiding Arbitrator Shri S.S. Agarwal, Shri Ashok Sharma	ICA, New Delhi	To resolve dispute regarding payment	<ul style="list-style-type: none"> <li>SOD filed on 22.03.2019 at ICA, New Delhi.</li> <li>As per Procedural order No. 6 dated 14.05.2019, passed by the tribunal on 14.05.2019, the tribunal would visit the site on 28.06.2019.</li> <li>Site visit held by Tribunal on 28.06.2019, further order passed on 09.07.2019 for next hearing on 05.08.2019.</li> <li>Hearing held on 05.08.2019 and attended by Projects Manager, next hearing will be done during 5th-6th Nov.' 2019.</li> <li>Meanwhile, Arbitral tribunal proceeding held on 19.09.2019, wherein direction given to both the parties to resolve issues related to Advance and further working at site by meeting at Bhilai before next hearing which was held on 05.12.2019.</li> <li>Arbitration Tribunal has put stay regarding termination of contract. Next Hearing held on 18.12.19 in which BSP's lawyer has submitted for revoking of Stay order. Next hearing held on 13.01.20 wherein M/s SPS has submitted the rebuttal for submission by BSP counsel.</li> <li>Next hearing held on 11.02.2020, wherein Tribunal informed to pass the order, Date was confirmed as 25.03.2020.by Tribunal in this regard.</li> <li>Further date has been postponed by Tribunal due to Covid-19.</li> <li>Now on 21.08.2020 by Majority order has made a decision that SAIL-BSP can carry the work at its own risk and cost. Third arbitrator Dr. Ashok Sharma has not agreed to this and given dissent order on 25.08.2020. These findings are for the interim application, main dispute is yet to be decided.</li> </ul>

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1	2	3	4	5	6	7	8	9	10	11
8.	Railway track work for Plant Internal Yard (Pkg-095-B)	ISC Project Pvt. Ltd.Pune	Rs. 22.74 Crs.	Rs. 73.23 Crs. (Rs. 5.83 Crs + Rs 67.4 Crs as Production loss )	ISC Project Pvt. Ltd. Pune	DK Pouriya, GM (Projects)	Justice GP Mathur (Retd.) (Presiding Arbitrator) Justice Ashok Bhan (Retd.) (Nominee Arbitrator from M/s ISC Project) SK Mukhopadhyay (Retd. CLC of India) (Nominee Arbitrator from SAIL, BSP).	Scope	Contract Terminated due to Party's default	<p><b>Contract Termination - 17.10.15</b>  <b>Date of Award of Contract for balance work - 17.10.15</b>  (Awarded to Jhajharia Nirman)</p> <ul style="list-style-type: none"> <li>Initial notice of claim for recovery issued</li> <li>Arbitration invoked by Party. Case is under arbitration in SCOPE</li> <li>Final argument by SAIL's counsel scheduled on 04-05.03.2019 could not hold by Arbitral panel. Next proposed dates are 17-18 July 2019.</li> <li>Hearing post-poned due to lapse of the "Arbitration period" on 30.06.2019. The matter of time extension is under jurisdiction of Delhi High court having date of hearing on 19.07.2019.</li> <li>Further date of hearing is fixed on 18<sup>th</sup> and 19<sup>th</sup> September 2019 for submission of final argument by SAIL.</li> <li>Final argument by SAIL, BSP submitted and now decision by Tribunal is pending.</li> <li>Extension of time of Arbitration granted by Hon'ble Industrial Court, Naya Raipur C.G. for another 03 (Three) months. Award of Arbitration is awaited within 13.03.2020 (extension of Arbitral period)</li> <li>As informed by Corporate Law Award of the case is made in the favour of SAIL, Bhilai Steel Plant and M/s ISC Projects's claims are rejected.</li> <li>Arbitral Panel has awarded in favour of SAIL,BSP on 12.03.2020, as per information received from Corporate Law on 30.06.2020 through an email.</li> <li>Party has challenged Arbitration Award in favour of SAIL, BSP in the Commercial Court ,Nava Raipur CG. The first hearing of the case was on 29.08.2020. Due to Covid 19 Pandemic problems still there the hearing is, postponed to 11.09.2020.</li> </ul> <p><b>Amount Recovered:</b>  PBG of Rs. 2,61,03,340 encashed on 09.11.2015.</p>

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1	2	3	4	5	6	7	8	9	10	11
9.	Structural works for BOF & CCP (Pkg 033B)	M/s ERA Infra Engg. Ltd.	Rs. 108 Crs.	Rs. 90.68 Crs. (Rs. 66.68 Crs. & 24 Crs. Change order)	ERA Infra	Pramod Kumar (GM (Mech.)-SMS-3) / A K Malick (GM – Project NTK)	Justice Jagdish Singh Khehar (Presiding Arbitrator),  Justice Vikramajit Sen (Arbitrator),  Justice Arijit Pasayat (Arbitrator)	ICA	RPN due to non - performance	<p><b>Contract Termination - 21.10.17</b>  <b>Date of Award of Contract for balance work -</b> Awarded in 5 pkgs. on (1 package 09.08.2017 prior to termination of M/s Era as part RPN, and post RPN 3 pkgs on 23.10.17 &amp; 1 pkg on 30.10.17)</p> <ul style="list-style-type: none"> <li>Initial notice of claim for recovery issued</li> <li>Arbitration invoked by Party. Case is under arbitration in ICA.</li> <li>Hearing was on 18.03.2019. No representative of M/s Era was present. Notice has been issued to M/s Era. 2<sup>nd</sup> hearing on 25.04.2019 wherein extension was sought by M/s Era and further next hearing will be held on 10.07.2019.</li> <li>Additional counter claim is to be filed on account of IDS I issued against RPN packages (Pkg 033B2, 033B4, 033B5, 033b6 &amp; 033B7) amounting to Rs <b>12.09 Cr</b> is not been filed till date in arbitration all document being handed over to corporate law and M/s Fox and Mondal (dealing law firm). To be taken up on priority by corporate law.</li> <li>Further additional counter claim shall be filed on account of Change Order which has been proposed against RPN packages (Pkg 033B2, 033B4, 033B5, 033b6) amounting to Rs <b>12.90 Cr</b>. Issuance of Change Order is in progress.</li> <li>Hearing took place on 10.07.19, M/s Era requested to postpone hearing for 03 months due to financial crises and non-availability of lawyer. SAIL has requested for a written submission from M/s Era for such extension. Since M/s Era has been referred to NCLT due to solvency and Bankruptcy, Tribunal have directed both BSP and M/s Era to obtain clearance for sustainability of claim and counterclaim from NCLT for such extension and submit to Tribunal. Filing of application has been done to NCLT. Next hearing scheduled on 19.10.19 but not held. Further Next hearing held on 08.11.19. The NCLT vide order dt. 08.11.2019 allowed the Respondent's application to proceed with the Arbitration and to adjudicate both the Claim and Counter Claim. The Respondent has processed for filing of petition in Delhi HC under section 29(4) &amp; (5) of the Arbitration and Conciliation act seeking an extension to complete the arbitration proceedings. Petition has been filed before HC. Once the same is allowed, Corporate Law office will take further necessary action regarding the same. No hearing has been done during COVID period and Application has been filed by Corporate Law to start the hearing.</li> </ul> <p style="text-align: right;">Cont....</p>
	Structural works for BOF & CCP (Pkg 033B)									<p><b>Amount Recovered:</b>  Performance BG :Rs 4.89 crs.  Additional PBG- Rs. 4.89 crs.  Interim advance BG- Rs. 1.00 crs.  All the 3 BG's encashed on 21.10.2017</p>

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1	2	3	4	5	6	7	8	9	10	11
10.	Cast-in-situ piling works in SMS-III complex (Pkg 033A1)	M/s ERA Infra Engg. Ltd.	Rs. 41.36 Crs.	Rs. 23.45 Crs.	ERA Infra Engg. Ltd.	Aniruddha Bhagwat, AGM (Proj.) Steel / A K Malick (GM – Project NTK)	Sh. Nirmal Singh	Scope	Tenability of Price escalation. Since duration of contract is less than 12 months price escalation not tenable as per contract.	<ul style="list-style-type: none"> <li>Initial notice of claim for recovery issued</li> <li>Arbitration invoked by Party. Case is under arbitration in SCOPE.</li> <li>29th hearing was held on 16.04.2019. The examination-in-chief and cross examination could not take place since the law officer of the claimant (M/s Era) got changed. The new law officer of claimant has been directed by the learned Arbitrator to submit evidence in the form of affidavit and present their witness for examination-in-chief and cross examination. Next hearing date on 09.07.2019. Hearing took place on 09.07.19, M/s Era requested to postpone hearing due to financial crises and non-availability of lawyer. SAIL has requested for a written submission from M/s Era for such extension. Next hearing held on 16.09.2019. Next hearing held on 30.10.19. Next hearing scheduled on 12.12.19, 25.02.2020, 27.07.2020, &amp; 29.08.2020 which could not be held.</li> <li>Due to Covid 19 Pandemic problems still there the hearing is postponed to 30.09.2020.</li> </ul> <p><b>Amount Recovered:</b> Performance BG: Rs 2.97 crs. and Rs 33.93 lakhs encashed.</p>
11.	Installation of 700 TPD ASU-4 with Associated facilities (Pkg-1) in Oxygen Plant-II, BSP	M/s JSC "Cryogenmash", Russia	USD 16623438.8404 plus interest @ 7.75% per annum	-	BSP	Shri G A Sorte, GM (OP-II)	High Court, New Delhi	High Court, New Delhi	Party proposing changes in contract	<p>Arbitration awarded by ICC, Paris against BSP. The award challenged by CO, LAW at Delhi High Court. Application has been accepted for hearing in March 2019. Hon'ble Delhi High Court, New Delhi vide dt 02.04.2019 passed order that "The parties shall make a joint convenience compilation of documents after inspecting the Arbitral Record. The same be filed within a period of twelve weeks from 02.04.2019. Listed on 29.07.2019 Board for hearing and the same has been postponed. Matter is fixed for final argument on 05.11.2019 &amp; herein contractual part has been only discussed. Final hearing scheduled on 25.11.19 &amp; Matter has adjourned to 11.12.2019 for final hearing. Further hearing held on 17.01.2020 wherein BSP's argument has been heard. Next hearing scheduled on 17.02.2020 regarding Cryogenmash's argument.</p> <p>On 12.02.2020, the matter could not be taken up and now Hon'ble High Court has fixed the date of 12.03.2020 regarding hearing of Cryogenmash's argument.</p> <p>On 12.03.2020 the matter has been postponed by the Hon'ble High Court due to COVID -19. Now Hon'ble High Court has fixed the next date of argument on 24.04.2020</p> <p>M/s Cryogenmash argument date deferred from 24.04.2020 to 24.06.2020 further to 19.08.2020 because of COVID -19 situation subject to court functioning being restored normal.</p>

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1	2	3	4	5	6	7	8	9	10	11
12.	Installation of 2 X 1250 TPD High Purity Cryogenic Oxygen Plant on "BOO" basis of M/s Praxair	M/s Praxair India Pvt. Ltd., Bangalore	Rs.10,85,97,403 Plus 12% interest	-	BSP	Shri G A Sorte, GM (OP-II)	Commercial Court, Naya Raipur	Commercial Court, Naya Raipur	Dispute in contract operation.	<ul style="list-style-type: none"> <li>Arbitration panel- Presiding Arbitrator Justice Sh. S.B. Sinha, Mr. Justice P.S. Narayana, Mr. Justice H.N. Nagmohan Das (Retd.). The arbitration has been awarded against BSP on 24.12.2018. On 19.03.2019, the case has been filed at Commercial Court, Naya Raipur under section-34.</li> <li>Hearing listed on 16.05.2019 and 03.05.2019. Hearing done on 26.06.19.</li> <li>Next hearing date scheduled on 27.07.19 for final argument. Counter claim of petitioner (BSP) filed by Advocate. Next hearing date will be decided shortly.</li> <li>Hearing done on 31.08.2019 and reserve for Order.</li> <li>Objection against award has been dismissed by Commercial Court, Naya Raipur and now we are considering of filing of appeal in section 37 in Bilaspur High court against the order passed by Commercial Court, Naya Raipur.</li> <li>Appeal under Section 37 is being prepared. Information will be provided to us by Corporate Law.</li> <li>Appeal under Section 37 has been filed at High Court , Bilaspur.</li> <li>Next hearing held at High Court, Bilaspur. on 17.02.2020. Further hearing in due course.</li> </ul>
13.	Civil work for BOF and CCP at BSP (Pkg- 033A)	M/s Ratna Infrastructure Proj. Pvt. Ltd. Hyderabad.	Rs. 56.31 Crs.	Initial notice of claim for recovery issued – Rs. 2.67 Crs.	-	Aniruddha Bhagwat, AGM (Proj.) Steel	-	-	RPN due to slow progress	<ul style="list-style-type: none"> <li>Awarded by SCOPE in favor of BSP and accordingly an amount of Rs. 34437515.27 (Rs. 2,67,17,971.25 + interest of Rs. 74,19,544.02 + Rs.3,00,000 towards the costs of proceedings)</li> </ul> <p><b>Amount Recovered:</b> BGs of total Rs. 16,05,59,922 {Rs. 8,65,11,116/- , 4,99,67,893/- (ISD) &amp; 2,40,80,913/- (PBG)} encashed.</p>
14.	Upgradation of Stove no.4 to HTS design for achieving higher Hot blast temperature	M/s EVO tech- Pvt. Ltd.	Rs. 6.57 Crs.	-	-	-	-	-	-	Arbitration invoked by party. Awarded in favour of party and has been accepted by BSP. Out of Court settlement has been reached with the party.

**Cases heading towards Arbitration**

S. N.	Name of package & Pkg.	Name of the party	Claim of the Party	Claim of Plants/Units	Likely reasons for Arbitration	Present Status
1	Recycling of Waste Water from Outlet-B (Outlet- 8, 9 & 10) (Pkg-I) for WMD of BSP	M/s OTTO Projects Pvt. Ltd., Kolkata		Rs.26,92,658/- [BSP's claim against the contractor, net of BG encashed]	RPN	PBG of RS.31,21,742 encashed.
2	ESP Based Plant De-dusting System under Modern. of SP-2, Pkg.021D	M/s Scintlant Projects India Pvt. Ltd., Kolkata		Rs. 65,79,606/- [BSP's claim against the contractor, net of BG encashed]	RPN-Conciliation	PBG of Rs 42.20 lakhs encashed on 29.12.14
3	Installation of Steam Turbine Generator, Back Pressure Turbine Generator, Cooling Water	M/s Triveni Engineering & Industries Ltd., Bangalore	Rs.4226.33 lakhs	Rs.6083 lakhs	Contractor has invoked conciliation. Case may lead to arbitration. After two meeting held for conciliation at Bhilai. No conclusion could be reached. Party may	PAC issued w.e.f.08.08.2016. Commissioned w.e.f 30.07.2019. PG test completed for 2 area, 1 Test remaining . Delay analysis sent to party, party refuses to accept any

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1	2	3	4	5	6	7	8	9	10	11
	System and Power Evacuation System (excluding enabling works) (Package-011-01B) at Bhilai Steel Plant, Bhilai"						go for arbitration			delay on their part.
4	Installation of 3x225 m3/h DM Water Plant for New PBS, existing PBS & BPTG station, Package No. (011- 01C) at Bhilai Steel Plant, Bhilai"	M/s Technofab Engg. Ltd., New Delhi		Rs.1342.82 lakhs		-	Contractor has appointed Conciliator. Party's Conciliator 1 <sup>st</sup> meeting with BSP is held at Bhilai. Mar'2020. No conclusion reached. BSP has appointed shri P K Ghosh, CGM(TSD) as new conciliator from BSP's side.			Commissioning Certificate issued w.e.f.05.08.2017. PG yet to be done.
5	Design ,Supply, Erecting, Testing and Commissioning of Railway Electrification work of existing /proposed Railway tracks switching post (SSP) including modification of existing 25KV AC, 50 Hz single phase overhead equipment (OHE) at BSP- "Package- 095A-Sch-C"	M/s Bright power Projects (India) Pvt. Ltd., Mumbai		Rs 1883.64 Lakhs	Nil		Contractor has invoked Arbitration as per contract clauses directly due to non-availability of Conciliation. BSP initiated Conciliation proceedings but party is not responding.			Party has stopped execution of works since 01.10.2018 and not responding. <ul style="list-style-type: none"> <li>Party has again put many baseless and unlawful allegations in its letter dated 31.07.2019 and disputed the BSP's contention of Extension of time period of contract.</li> <li>Matter referred to M/s RITES for proper reply and to decide further course of action. Party has terminated contract from their side on 02.10.2019 and claimed an amount of Rs. 22,78,79,939.</li> <li>Party was given opportunity to resolve the dispute by way of 'Conciliation', but party did not attend any such meeting and invoked Arbitration.</li> </ul> As per contract, BSP offered to select Sole Arbitrator from the available panel of Arbitrators, but party challenged the same and filed a case in Delhi high court for getting the arbitration held at New Delhi as per Indian Contract law but not as per Contract agreement signed by them.
6	Installation of Evacuation facilities for new 2x1250 TPD oxygen plant.	M/s Blue Star, Ltd. Kolkata		Rs. 13.50 Cr.		-	Contractor has invoked conciliation. CGM-SMS-2 has been appointed as a common Conciliator.			PG certificate has been issued w.e.f.27.01.2018 & the facility is in operation. <ul style="list-style-type: none"> <li>Party has not agreed with the delay analysis and invoked for conciliation and submitted claim of Rs.13,50,66,410/- on 18.03.2020.</li> <li>BSP has replied to party on 30.04.2020.</li> </ul>

**RPN cases in Capital Projects – Contracts Cases**

SI. No.	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration /litigation	Forum/court in which the case is pending
1	M/s. Aireff Detox Pvt. Ltd., Thane, M/s. Himgiri Cooling Tower Thane & M/s.Model Infra Corpn. Pvt. Ltd., Bangalore	External Water System for SMS-III (Pkg.077-01)	03.03.16	15.12.16	Mobilization BG: Rs 3.07 cr & Performance BG: Rs 5.89 cr encashed on 05.03.16.	Rs.194.02 Cr [net of BG encashed]	<ul style="list-style-type: none"> <li>• Party vide letter dt.08.11.16 requested to submit the Rs.194.02 Crs.</li> <li>• Vide letter dt.14.12.2016. Party informed about conciliation.</li> <li>• Vide email dt.29.12.16 Fin- Proj requested to do needful for recovery of RPN Cost.</li> <li>• RM Mumbai requested to handing over of above letters.</li> <li>• RM Mumbai vide email dt.03.02.2017 informed that office of Party was found closed and different notices were found pasted on the office.</li> <li>• Conciliation has failed.</li> <li>• Relevant documents have been forwarded to corporate law for initiation of arbitration proceedings.</li> <li>• A meeting held on 12.12.18 between BSP and advocates at Delhi for preparation of claim.</li> <li>• Projs-Utility Zone forwarded the Prayer Paragraph, affidavit and vakalatnama, duly seal &amp; signed to Corp. law through post in March 2019 for filling Arbitration.</li> <li>• Lawyer (DSK legal) on 06.05.19 filed Statement of Claim on behalf of SAIL before the SCOPE Forum.</li> <li>• As informed by Lawyer (DSK Legal) Copy of SOC not received by Party as office is found closed twice and further "SHIFTED "to unknown place.</li> <li>• Lawyer (DSK Legal) is exploring to claim with Consortium members.</li> <li>• Vide e-mail 30.11.2019 Corporate Law, SAIL informed that one of the consortium partner M/s HIMGIRI Cooling Tower has submitted SOD.</li> <li>• SCOPE has sent a Demand Note to Deposit required Arbitration fees at the earliest.</li> <li>• Arbitration fees deposited by SAIL,BSP and further course of action is awaited.</li> <li>• Arbitral panel is yet to be formed by SCOPE</li> </ul>
2	M/s Agnice Fire Protection Ltd. Kolkata	Fire protection system for For BRM & URM (Pkg.126-02)	22.10.16	12.01.17	Performance BG: Rs 0.81 cr. has been encashed on 17.10.16.	Rs.7.68 Cr. [net of BG encashed]	<ul style="list-style-type: none"> <li>• BSP has initiated action to recover the balance RPN amount of Rs.7,67,58,178/-from the pending/ future bills of M/s Agnice Fire Protection Ltd., Kolkata. Vide letter dt 05.12.2016 Fin- Proj requested to do needful for recovery of RPN Cost.</li> <li>• Conciliation has failed.</li> <li>• Relevant documents have been forwarded to corporate law for initiation of arbitration proceedings on 01.10.18.</li> <li>• CO Law informed vide email 08.01.19 that Advocate has been appointed in the matter. The documents have been handed over to handling Advocate and being followed up for preparation of statement of Claim.</li> <li>• Vide email dt 26.03.2019, CO Law submitted draft SOC for</li> </ul>

## Annexure-I

### RPN cases in Capital Projects – Contracts Cases

SI. No.	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration /litigation	Forum/court in which the case is pending
							<p>observation to Proj Zone for necessary comments. Proj Zone vide email dt 13.04.2019 forwarded observation on draft SoC to CO.</p> <ul style="list-style-type: none"> <li>• Proj Zone vide email dt 30.07.19 forwarded revised observation on SoC to CO.</li> <li>• Meeting held during 01.08.19-02.08.19 with Advocate at Noida,</li> <li>• Revised SOC submitted to Advocate/Corporate Law on 21.08.2019.</li> <li>• Reminders sent to Corporate Law on 21.09.19 &amp; 21.10.19 regarding updated status. Corporate Law has not finalized Final SOC so far. Final SOC sent by Advocate on 24.12.2019 and sent to Corporate Law by Projects, BSP on 08.02.2020.</li> <li>• Corrections done and Final SOC sent by BSP on 06.03.2020. Awaiting the Final papers from Corporate Law for further necessary action.</li> <li>• Final SOC (arbitration SAIL and Agnice Fire ) has been submitted on 13.3.2020 to Corporate Law/Advocate duly signed and notarized by BSP.</li> <li>• Reminder given to Corporate Law for updatoin of status on 30.04.2020.</li> <li>• The matter has been discussed with dealing advocate Mr. Sharad Kapoor on 06.06.20. and asked to expedite the case for filing of SOC.</li> <li>• Payment for registration fee (Rs. 35,400/-) for filing arbitration case in ICA, New Delhi approved on 13.07.2020.</li> <li>• As informed by Corp. Office Law arbitration case filed in ICA</li> </ul>
3	M/s Summits Hygronics Pvt. Ltd. COIMBATORE	Air Drying Plant for URM and Air Drying & Filtration plant for BRM(Pkg.114A)	31.03.15	31.03.15	PBG not submitted. EMD exempted as party has submitted NSIC.	Rs.0.62 Cr.	<ul style="list-style-type: none"> <li>• Letters issued on 31.03.15, 25.04.16, 09.05.16, 26.07.16 &amp; 03.09.16</li> <li>• Vide letter dt 03.12.16 Fin- Proj requested to do the needful for recovery of RPN Cost.</li> <li>• Conciliation has failed.</li> <li>• Management on 05.12.18 accorded approval to initiate arbitration proceedings and has appointed Shri R. K. Nehru, Ex-ED (MM) as the Arbitrator. Letter issued to Shri R K Nehru on 10.12.18to initiate Arbitration proceeding.</li> <li>• First hearing held on 06.03.2019. Party did not attend.</li> <li>• Second hearing held on 27.03.2019.Party did not attend.</li> <li>• Third hearing held on 20.04.2019. Party did not attend. BSP has submitted its statement of claim.</li> <li>• Fourth hearing held on 29.05.19. Party did not attend but intimated through e-mail, dt 15.05.2019 that they will be able to visit BSP in 1st week of June'19.</li> <li>• Respondent has not filed statement of defense and/or counter</li> </ul>



**RPN cases in Capital Projects – Contracts Cases**

SI. No.	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration /litigation	Forum/court in which the case is pending
							<p>claim till date.</p> <ul style="list-style-type: none"> <li>Fifth hearing held on 11th June'19. Party did not attend. Affidavit on evidence to be submitted by claimant, before 26th June'19.</li> <li>Sixth hearing held on 28th June'19. Party did not attend. Next hearing held on 23rd July'19.</li> <li>Seventh hearing held on 23rd July'18 in which the representative of M/s Summits was present. Party has submitted a petition along with affidavit. The reply of petition has been sent to M/s Summits by BSP on 31.07.19. Next hearing will be held on 9th Aug'19.</li> <li>Eighth hearing held on 9th Aug'19. No one was present from the respondent site. Next hearing will be held on 10th Sept.19.</li> <li>Ninth hearing held on 10th Sept'19. No one was present from the respondent site. On 1st Oct'19, hearing held for FINAL argument, in which the party was not present. Now the case is reserved for award.</li> <li>Tribunal has awarded on 12.12.19 and asked M/s Summit Hygronics Pvt. Ltd. to pay Rs. 55, 79, 052 + Rs. 2, 15, 000 + interest amount to BSP.</li> <li>Award passed.</li> </ul>
4	Consortium of M/s KG Cranes, Korea and M/s Impression System & Engg. Pvt. Ltd., Pune	EOT Cranes for BOF & CCP of SMS-III (Pkg 029B1)	01.06.15	19.06.15	PBG not submitted, however EMD-BG of USD 300,000 forfeited in Feb'15.	Rs.0.43 Cr.	<ul style="list-style-type: none"> <li>Recovery notice issued to the party for depositing risk &amp; cost amount on 01.06.15, 05.08.15. Reminders sent on 12.11.15, 06.02.16, 23.04.16, 02.09.16.</li> <li>Contract awarded to M/s Mukand on dtd. 19.06.2015 at Rs 157.55 Crs with completion period 18.12.16.</li> </ul>
5	Consortium of M/s Vishwa Infrastructures and Services Pvt. Ltd, Hyderabad (M/s VISPL) and M/s V Bhogeshwara Rao, Guntur	Augmentation of Make-up Water and Drinking Water System at all new units (Pkg. No.078)	11.04.16	22.05.17	Mobilization BG: Rs.1.5 Cr. and -Mobilization BG: Rs.6.35 Cr. Performance BG Rs.4.86 Crs. encashed in April'16.	Rs.70.31 Cr. [net of BG encashed]	<ul style="list-style-type: none"> <li>Conciliation has failed.</li> <li>Management on 27.03.18 accorded approval to initiate arbitration proceedings for recovery of risk &amp; cost amount. Accordingly case sent to Corporate Office on 10.04.18 for further processing.</li> <li>A meeting held on 14.12.18 between BSP and lawyer at Delhi for preparation of claim.</li> <li>Claims finalised and to be lodged for initiation of Arbitration.</li> <li>Corporate Office vide email dt.20.02.19 forwarded the draft Prayer Paragraph, affidavit and vakalatnama. The same, duly sealed &amp; signed sent to Corp. law through post for filing Arbitration, which is received at Delhi on 12.04.19.</li> <li>M/s Vishwa vide letter dt.25.04.19 informed that Corporate Insolvency Resolution Process started in their firm through NCLT.</li> <li>SAIL BSP approached IRP through Lawyer Shri Ashish Rana.</li> <li>SAIL is directed to file their claim directly to IRP (Liquidator) of</li> </ul>

**RPN cases in Capital Projects – Contracts Cases**

SI. No.	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration /litigation	Forum/court in which the case is pending
							<p>the case Shri Hemant Sharma, New Delhi. The same will be done by 05.09.2019.</p> <ul style="list-style-type: none"> <li>• IRP (Liquidator) return the case as being not in his purview and asked to file the matter in NCLT, Hyderabad. Accordingly, Matter is filed on 23.09.2019.</li> <li>• Case was filed with NCLT, Hyderabad to get further direction in the matter. NCLT, Hyderabad directed liquidator on 28.10.2019 to “consider the SAIL’s claim on merit”. Request letter sent on 31.10.2019.</li> <li>• A meeting with IRP held at New Delhi on 14.11.2019 wherein SAIL, BSP has asked to submit proof of the claims with M/s VISPL. Documents posted to Liquidator in wrong address caused delay in submission, hence the case rejected by him. Request has been made by BSP on 28.01.2020 to re-consider the documents.</li> <li>• SAIL’s request for re-consideration of Claim papers is under process with NCLT, Hyderabad through legal counsel.</li> <li>• Hon’ble NCLT ,Hyderabad is requested to consider the case by providing extension of time to submit documents to Liquidator ONLINE on 21.03.2020</li> <li>• All the related documents are sent to SAIL’s Counsel at Hyderabad on 20.05.2020 due to COVID-19 lockdown of Post Offices etc. and same has been received by him recently. The case is under filing with NCLT, Hyderabad.</li> </ul>
6	Consortium of M/s McNally Bharat Engineering Company Ltd and M/s Southern Cooling Towers Private Ltd, Kolkata	External water system for Mills and fire water pump house (Pkg – 077-02)	20.05.16	14.09.17	PBG of Amount Rs. 6.08 Cr., BG against Mobilization advance of Rs. 8.36 Cr, BG against 1 <sup>st</sup> Interim advance Rs. 5.60 Cr. and BG against 2 <sup>nd</sup> Interim advance of Rs. 5.50 Cr. Encashed in May’16.	Rs.122.67 Cr (net of BG encashed)	<ul style="list-style-type: none"> <li>• Conciliation has failed.</li> <li>• Management on 29.11.2017 accorded approval to initiate arbitration proceedings for recovery of risk &amp; cost amount. Accordingly case sent to Corporate Office on 09.01.2018 for further processing.</li> <li>• Vide letter dt.26.06.2018 M/s MBECL sent notice of claimed of Rs.119 Crs.</li> <li>• M/s MBECL vide letter dt.31.07.2018 have refuted our claims towards Risk and Cost and have invoked arbitration and appointed Shri Dr. V K Agarwal, Former Law Secretary, Govt. of India as their Nominee Arbitrator and requested to nominate an arbitrator on behalf of BSP.</li> <li>• Vide email dt.24.09.2018 Corporate law forwarded draft statement of claim for comments. The draft statement of claim is under preparation based on Zone comments dt.19.11.2018.</li> <li>• Vide letter dt.10.10.2018 (received on 22.10.2018) M/s MBECL addressed to Registrar, ICA regarding initiation of Arbitration proceedings. The same forwarded to Corporate Law vide email dt.23.10.18</li> <li>• SAIL’s Claims finalised and related documents provided to</li> </ul>

**RPN cases in Capital Projects – Contracts Cases**

Sl. No.	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration /litigation	Forum/court in which the case is pending
							<p>advocate on 09.02.2019 for initiation of Arbitration.</p> <ul style="list-style-type: none"> <li>• Queries raised by SAIL's Counsel are replied and further queries received, Reply and desired documents sent through e-mail on 18.04.2019.</li> <li>• SOC filed with ICA on 04.06.2019 for an initial claim amount of INR 192.62 Cr.</li> <li>• ICA has send a Demand Note for submission of fees of Rs. 68.67 Lakh + GST +9.58 lakh stamp duty to be payable by BSP on or before 08.08.2019.</li> <li>• SAIL BSP's share of ICA fees are deposited and claim is being revised by counsel.</li> <li>• Meanwhile, MBECL has filed a case in Hon'ble Delhi High court to obtain status of "Claimant". The case is dealt by CO Law.</li> <li>• ICA has sent a demand note to deposit the Arbitral fees for the share of RESPONDENT M/s MBECL &amp; Co.</li> <li>• Arbitral fees as above are deposited to ICA for further course of action.</li> <li>• ICA appointed Arbitral panel under Shri T.S. Thakur, ret'd. CJI as Presiding arbitrator and 1<sup>st</sup> meeting is scheduled on 12.03.2020 at New Delhi.</li> <li>• 1<sup>st</sup> meeting held and direction of Arbitral tribunal received by both the party ,next hearing is scheduled on 06.08.2020</li> <li>• Respondent MBECL has filed an application with Arbitral Panel and the same is replied on 02.06.2020 by Claimant through Counsel.</li> <li>• Arbitration proceeding held through VC on 07.08.20. Arbitration proceeding has been reschedule with revise date and next date of hearing on 03.12.2020</li> </ul>
7	ISP Project Pvt. Ltd. Pune	Railway track work for Plant Internal Yard (Pkg – 095 B)	17.10.15	17.10.15	PBG of Rs. 2.61 Cr. encashed on 09.11.2015.	Rs. 73.23 Crs. (Rs. 5.83 Crs + Rs 67.4 Crs as Production loss )	<ul style="list-style-type: none"> <li>• Initial notice of claim for recovery issued</li> <li>• Arbitration invoked by Party. Case is under arbitration in SCOPE</li> <li>• Final argument by SAIL's counsel scheduled on 04-05.03.2019 could not hold by Arbitral panel. Next proposed dates are 17-18 July 2019.</li> <li>• Hearing post-poned due to lapse of the "Arbitration period" on 30.06.2019. The matter of time extension is under jurisdiction of Delhi High court having date of hearing on 19.07.2019.</li> <li>• Further date of hearing is fixed on 18<sup>th</sup> and 19<sup>th</sup> September 2019 for submission of final argument by SAIL.</li> <li>• Final argument by SAIL, BSP submitted and now decision by Tribunal is pending.</li> <li>• Extension of time of Arbitration granted by Hon'ble Industrial Court , Naya Raipur C.G. for another 03(Three) months. Award</li> </ul>

**RPN cases in Capital Projects – Contracts Cases**

SI. No.	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration /litigation	Forum/court in which the case is pending
							<p>of Arbitration is awaited within 13.03.2020 (extension of Arbitral period)</p> <ul style="list-style-type: none"><li>• As informed by Corporate Law Award of the case is made in the favour of SAIL, Bhilai Steel Plant and M/s ISC Projects's claims are rejected.</li><li>• Arbitral Panel has awarded in favour of SAIL,BSP on 12.03.2020, an email from Corporate Law is received on 30.06.2020 as an information.</li></ul>

**RPN cases in Capital Projects – Contracts Cases**

**Details of RPN cases in BSP other than the list mentioned above:-**

Sl. No.	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration /litigation	Forum/court in which the case is pending
8	M/s S.P. Singla Construction Pvt. Ltd.	Construction of Flyover at 3 Locations & Road Network (Pkg.111-01)" of Bhilai Steel Plant, Bhilai	30.11.17	Work of part RPN has been awarded at a contract price of Rs 1.78 Crs	-	-	<ul style="list-style-type: none"> <li>• SOD filed on 22.03.2019 at ICA, New Delhi.</li> <li>• As per Procedural order No. 6 dated 14.05.2019, passed by the tribunal on 14.05.2019, the tribunal would visit the site on 28.06.2019.</li> <li>• Site visit held by Tribunal on 28.06.2019, further order passed on 09.07.2019 for next hearing on 05.08.2019.</li> <li>• Hearing held on 05.08.2019 and attended by Projects Manager; next hearing will be done during 5th–6th Nov.' 2019.</li> <li>• Meanwhile, Arbitral tribunal proceeding held on 19.09.2019, wherein direction given to both the parties to resolve issues related to Advance and further working at site by meeting at Bhilai before next hearing which was held on 05.12.2019.</li> <li>• Arbitration Tribunal has put stay regarding termination of contract. Hearing held on 18.12.19 in which BSP's lawyer has submitted for revoking of Stay order. Next hearing held on 13.01.20 wherein M/s SPS has submitted the rebuttal for submission by BSP counsel.</li> <li>• Next hearing held on 11.02.2020, wherein Tribunal has informed to pass the order. Date was confirmed as 25.03.2020. by Tribunal in this regard.</li> <li>• Further date has been postponed by Tribunal due to Covid-19.</li> </ul>
9	M/s ERA Infra Engg. Ltd.	Structural works for BOF & CCP (Pkg 033B)	21.10.17	Awarded in 5 pkgs. on (1 package awarded on 09.08.2017 prior to termination of M/s Era as part RPN, and 3 pkgs awarded as post RPN on 23.10.17 & 1 pkg awarded on 30.10.17)	Performance BG: Rs 4.89 crs. Additional PBG: Rs. 4.89 crs. Interim advance BG:Rs. 1.00 crs. All the 3 BG's encashed on 21.10.2017.	Rs. 90.68 Crs. (Rs. 66.68 Crs. & 24 Crs. Change order)	<ul style="list-style-type: none"> <li>• Initial notice of claim for recovery issued.</li> <li>• Arbitration invoked by Party. Case is under arbitration in ICA.</li> <li>• Hearing was on 18.03.2019. No representative of M/s Era was present. Notice has been issued to M/s Era. 2<sup>nd</sup> hearing on 25.04.2019 wherein extension was sought by M/s Era and further next hearing will be held on 10.07.2019.</li> <li>• Additional counter claim is to be filed on account of IDS I issued against RPN packages (Pkg 033B2, 033B4, 033B5, 033b6 &amp; 033B7) amounting to Rs 12.09 Cr is not been filed till date in arbitration all document being handed over to corporate law and M/s Fox and Mondal (dealing law firm). To be taken up on priority by corporate law.</li> <li>• Further additional counter claim shall be filed on account of Change Order which has been proposed</li> </ul>

**RPN cases in Capital Projects – Contracts Cases**

							against RPN packages (Pkg 033B2, 033B4, 033B5, 033B6) amounting to Rs 12.90 Cr. Issuance of Change Order is in progress. Hearing took place on 10.07.19, M/s Era requested to postpone hearing for 03 months due to financial crises and non-availability of lawyer. SAIL has requested for a written submission from M/s Era for such extension. Since M/s Era has been referred to NCLT due to solvency and Bankruptcy, Tribunal have directed both BSP and M/s Era to obtain clearance for sustainability of claim and counterclaim from NCLT for such extension and submit to Tribunal. Filing of application has been done to NCLT. Next hearing scheduled on 19.10.19 but not held. Further Next hearing held on 08.11.19. The NCLT vide order dt. 08.11.19 allowed the Respondent's application to proceed with the Arbitration and to adjudicate both the Claim and Counter Claim. The Respondent has processed for filing of petition in Delhi HC under section 29(4) & (5) of the Arbitration and Conciliation act seeking an extension to complete the arbitration proceedings. Petition has been filed before HC. Once the same is allowed, Corporate Law office will take further necessary action regarding the same.
10	M/s Ratna Infrastructure Proj. Pvt. Ltd. Hyderabad.	Civil work for BOF and CCP at BSP (Pkg- 033A)	15.12.10	21.02.2011	BG 's encashed of Rs. 8.65 Crs	Rs.2.66 Crs	<ul style="list-style-type: none"> <li>Awarded by SCOPE in favor of BSP and accordingly an amount of Rs. 2,67,17,971.25 + interest of Rs. 74,19,544.02 + Rs.3,00,000 towards the costs of proceedings is payable to BSP. The same has been forwarded to BSP LAW deptt for further action.</li> </ul>
11	M/s HSCL	Civil work for BOF and CCP at BSP (Pkg- 033A)	09.02.13	28.02.13	Corporate Performance guarantee bond of Rs. 5,56,26,908/- valid upto 21.10.2015 claim period upto 21.12.2015  1.41 Cr (Final RA + Price Escalation)-Hold will be adjusted against RPN recovery	Rs 89.77 Crs	<ul style="list-style-type: none"> <li>During the course of approval, Board Subcommittee held on 04.10.2012 observed that considering the impact on other works being carried out by HSCL in BSP and other plants and units the modality for recovery of additional amount required to be paid to alternate agency will be finalized after completion of work.</li> </ul>
12	M/s Scintllant Projects India Pvt. Ltd., Kolkata	ESP Based Plant De-dusting System under Modern. of SP-2, Pkg.021D	08.06.2017	<b>26.07.17</b> Contract awarded to M/s Consortium of M/s Enviropol Engineers P. Ltd, Noida and M/s Enviro care Filtration & system, Kolkata at a cost of Rs 2.789	PBG of Rs 42.20 lakhs encashed on 29.12.14	Rs. 65,79,606/-	<ul style="list-style-type: none"> <li>Conciliator appointed vide approval dtd.17.11.17. As desired by Conciliator, BSP submitted their claim statement to the Conciliator on 07.02.2018.</li> <li>Conciliation proceedings have not yet started.</li> </ul>

**RPN cases in Capital Projects – Contracts Cases**

				Crs with completion period of 4 months			
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**DSP-RPN cases in Capital Projects (Contracts Cases)**

SI	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Date of Issue of Recovery Notice	Recovered amount if any (BG Amount) (Rs. Cr.)	RPN Amount Recoverable / Amount involved in Arbitration / litigation (Rs. Cr.)	Forum/court in which the case is pending	Remarks
<b>A</b>	<b>MEP</b>								
1	M/s Jain Infraprojects Ltd.	Civil Works for BRC	20.10.12	20.10.12	04.08.17 (final)	2.57 (BG encashed)	3.44	NA	<ul style="list-style-type: none"> <li>1<sup>st</sup> meeting for amicable settlement held with Jain Infraprojects Ltd on 13.12.19</li> </ul>
2	M/s Jain Infraprojects Ltd.	Civil Works for MSM	05.02.13	05.02.13	05.08.16 (final)	4.04 (BG encashed)	18.17	ICA, New Delhi	<ul style="list-style-type: none"> <li>Under Arbitration</li> <li>Claim statement filed by Jain Infraprojects on 02.05.19.</li> <li>DSP's counter-claim filed on 26.09.19.</li> <li>Counter statement of DSP filed by Corporate Law/SAIL Advocate at Delhi on 23.01.20.</li> </ul>
3	M/s Jain Infraprojects Ltd.	Inter Plant Pipeline for fuel and industrial gases	16.02.13	16.02.13	16.02.13 (provisional)	1.15 (BG encashed)	2.22 (Provisional)	NA	<ul style="list-style-type: none"> <li>Provisional claim lodged.</li> </ul>
4	M/s Tecpro Systems+ M/s Haldia Nirman	De-bottlenecking of RMHP	23.05.14	23.05.14	05.08.17 (final)	4.89 (BG encashed)	17.30	NA	<ul style="list-style-type: none"> <li>Party (Tecpro Systems) was referred to NCLT under IBC. NCLT Order pronounced on 15.05.19.</li> <li>Party was called for Amicable settlement on 28.11.19 and then on 17.12.19.</li> <li>Party's Kolkata address changed; Letters could not be delivered.</li> <li>Letters sent to Delhi, Gurgaon and Chennai addresses of Party asking to attend meeting on 30.01.20.</li> <li>Party attended meeting on 05.02.20.</li> <li>Hon'ble NCLT Principal bench vide its Order dated 16.01.20 has initiated liquidation of Tecpro Systems Ltd. and has appointed Mr Ramachandran Subramanian as Liquidator for Tecpro Systems Ltd.</li> </ul>



Sl	Name of the party	Name of the package & Pkg. No.	Contract Termination Date	Date of Award of Contract for balance work	Date of Issue of Recovery Notice	Recovered amount if any (BG Amount) (Rs. Cr.)	RPN Amount Recoverable / Amount involved in Arbitration / litigation (Rs. Cr.)	Forum/court in which the case is pending	Remarks
									• DSP's claim has been submitted to Liquidator in Feb'20.
5	M/s Jain Infraprojects Ltd.	Compressed Air Station	29.03.13	29.03.13	29.03.13 (provisional)	0.70 (BG encashed)	4.59 (Provisional)	NA	• Provisional claim lodged.
6	M/s Tecpro Systems	Belt Conveyor system for transportation of dolomite	13.03.14	13.03.14	12.05.17 (final)	0.58 (BG encashed)	2.08	NA	• Same as Sl 4 above

### DSP-ARBITRATION CASES IN CAPITAL PROJECTS

#### 1. ONGOING CASES

Sl. No.	Name of the Package & Pkg. No.	Name of the Party	Claim of the Party	DSP's claim	Initiated by	Dealing officer in Law Deptt.	Name of the Arbitrator	Pending at Forum	Reason for dispute	Present Status
1	Civil Works for Medium Structural Mill at DSP [Contract no. DSP/PROJ-PUR/EXP/MSM-02CRT2/169 dated 04.11.2010]	Jain Infraprojects Ltd.	Rs 98.06 Crore	Rs. 18.17 Crore	Party	DGM (Law), DSP	Tribunal of 3 Arbitrators to be appointed by ICA	ICA, New Delhi	Termination of Contract, resulting in claims & counter-claims	1. Claim statement filed by Jain Infraprojects on 02.05.19. 2. DSP's counter-claim filed on 26.09.19. 3. Counter statement of DSP filed by Corporate Law/SAIL Advocate at Delhi on 23.01.20.
2	Medium Structural Mill - Main Package at DSP [Contract no. DSP/PROJ-PUR/EXP/MSM-01/14 dated 11.05.2010]	Primetals Technologies India Pvt Ltd.	Rs 14.75 Crore	Party's claim is not tenable.	Party	DGM (Law), DSP	Mr Charles Monzini	ICC, Hongkong	Demurrage & Detention costs incurred by Party at Kolkata Port for import consignments	1. Claim statement filed by Primetals India on 02.09.19. 2. Counter statement of DSP filed on 16.10.19. 3. Witness statement of one witness filed by Primetals on 21.01.20 and Witness statements of two witnesses filed by DSP on 23.01.20 and third witness filed on 06.02.2020. 4. Supplementary witness statements filed on 16/17.02.20.

3	Gas Mixing and Boosting Station at DSP [Contract no. DSP/PROJ-PUR/EXPN/UTIL-01/194 dtd 08.12.2011]	TLT Engineering India Pvt Ltd	Rs 2.58 Crore	---	Party	DGM (Law), DSP	To be decided by ICA	ICA, New Delhi	Non-release of Bank Guarantee submitted towards Performance Guarantee payment, Liquidated Damages issue, Extra claims, Balance payments	<ol style="list-style-type: none"> <li>1. Claim statement filed by TLT Engineering on 07.12.18.</li> <li>2. Vide Letter dated 02.09.19, DSP's Lawyer had requested ICA to keep the Arbitration in abeyance for the time being during the pendency of Conciliation and also to grant time upto 07.10.19 to DSP to file reply to ICA's letter dated 01.08.19.</li> <li>3. Counter statement of DSP under preparation for filing.</li> </ol>
4	Ammonia Column for Revamping of Ammonium Sulphate Plant in DSP [Work Order no. DSP/PROJ-PUR/EXPN/BPP-01/SS-11/187/WO dated 30.05.2011]	ISGEC Heavy Engineering Ltd	Rs 1.44 Crore	---	Party	DGM (Law), DSP	Shri M Akhouri, Durgapur	Sole Arbitrator at Durgapur	Non-release of balance payment	<ol style="list-style-type: none"> <li>1. 1st Arbitral sitting held on 18.10.19.</li> <li>2. Claim statement sent by ISGEC Heavy Engineering on 24.10.19.</li> <li>3. Counter statement of DSP under preparation.</li> </ol>

**Arbitration cases in Capital Projects**

**Plant / Unit: RSP**

**(A) On-going Arbitration cases:**

Sl. No.	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by (Party/SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
1	Installation of BF#5 & Contract No. P/PROJ/643(10)/79001 /08049126 dated 02.10.2008	Danieli Corus B.V	Euro 8.1 million* (Total Rs 62.55 Crores)	--	Party	Officer Associated with Arbitration: A.K.Behera, Jhumur Padhi, S S Roychoudhury  Corporate Law:  Project manager: D Prasad	Arbitration Tribunal by ICC, Paris	ICC, New Delhi	Dispute in breach of copy right and confidentiality clause.	<ol style="list-style-type: none"> <li>1. Cross examination of witnesses completed in December'2018.</li> <li>2. Oral submission made on 27-28 Jan 2019 in ICC at New Delhi. Arbitral award waited.</li> <li>3. Award declared on 15.10.2019.</li> <li>4. IP Rights claims not admitted. However, violation of confidentiality clause admitted.</li> <li>5. Award has been given in favor of the party.</li> <li>6. Award amt Rs. 24 cr, interest @ 2.23% Rs. 0.97 cr., legal charges- Rs. 3 cr. Total= Rs. 28 cr to be paid in EURO.</li> <li>7. Approval note has been sent for challenging the award in High Court.</li> <li>8. The case is being handled by Corporate Law.</li> <li>9. Last hearing held on 17.03.2020.</li> <li>10. Next date of hearing is 08.12.2020.</li> </ol>
2	Installation of BF#5 & Contract No. P/PROJ/643(10)/79001 /08049126 dated 02.10.2008	Consortium of Danieli Corus B.V & Tata Projects Ltd	INR 26.61 Crores and Euro 1.87 million* (Total Rs 41.05 crores)	--	Party	Officer Associated with Arbitration: A.K.Behera, D Prasad, M K Mohanty  Corporate Law  Project manager: D Prasad	Arbitration Tribunal by ICC, Paris	ICC, New Delhi	Dispute in non issue of FAC and non release of FAC payment.	<ol style="list-style-type: none"> <li>1. Statement of Defense filed by SAIL/RSP before Arbitration Tribunal. Case under progress.</li> <li>2. Witness Affidavits filed on 31.01.2019.</li> <li>3. Final argument held on 29-30 April, 2019.</li> <li>4. Award declared on 20.11.2019.</li> <li>5. Award has been given in favor of the party.</li> <li>6. FAC amount-Rs.41.60 cr., Interest- Rs. 11.60 cr. and arbitration cost &amp; legal charges Rs. 3.80 cr. Total= Rs. 57 cr. to be paid.</li> <li>7. Award is being challenged in High Court.</li> <li>8. The case is being handled by Corporate Law. The next date is 14.10.2020.</li> </ol>
3	Up-gradation of Existing CCD: Knock-Out Pots, Condensate Seal Pot, Gas Mixing Tank, Inter-connected Gas Pipes, Valves, receipt & storage of Sulphuric Acid.	IMECO	--	INR 6.46 crore	RSP	Officer Associated with Arbitration: Lalit Bari/ G.Mishra  Project m Manager: K B Das	Not appointed	SFCA, New Delhi	RPN- cost recovery Affidavit dated 26/3/12	<ol style="list-style-type: none"> <li>1. SCOPE to appoint a new arbitral tribunal as the earlier arbitrator rescued himself as an arbitrator.</li> <li>2. SCOPE proposed revised arbitration fee structures which need to be paid by both the parties (IMECO &amp; SAIL, RSP) to proceed with arbitration.</li> <li>3. However the party has not shown any interest in moving ahead with the case.</li> </ol>

Sl. No.	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by (Party/SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
	Contract No. P/Proj/641/79001-3/08049140 dated 01.11.2008									4. As advised by arbitrator additional fee forwarded to SCOPE on 01.07.19 by registered post (DD for Rs6,05,125/-). 5. M/s IMECO vide letter no. IM/S/N/00164/623 dated 24.07.19 has proposed to RSP to settle the matter mutually. Same is being examined at RSP. 6. Mutual discussion held on 18-19 Nov'19. 7. Party vide letter dated 23.12.19 requested SCOPE for more time as they are under discussion with RSP for mutual settlement. 8. Another round of discussion for mutual with the party took place on 04.03.2020. 9. SCOPE has been asked to go ahead with the arbitration proceedings
4	KCS vs MECON Rebuilding of coke oven battery #4  Contract No. P4/740/07049045 dtd 01.06.2007 Principal contractor: MECON Sub-Contractor engaged by MECON:- KCS Pvt. Ltd.	KCS Pvt. Ltd.	17.08 Lakhs + 7.82 Lakhs + 0.60 Lakhs+ 0.97 Lakhs	--	Party	Officer Associated with Arbitration: Lalit Bari  Project Manager: K B Das	Justice Tapan Sen	Jharkhand consumer disputes redressal commission , Ranchi	KCS vs MECON  RSP has been made 2nd party to the case (on the basis that RSP is the principal contractor of MECON).	1. RSP has petitioned not to be made a party on 19.03.2019. 2. Another notice received on 11.04.2019 and the same is being handled by RSP law.
5	New OBBP and Base Blending Facilities Contract No.- P/Proj/641/79001-3/08049107 Dated-12.08.2008	Shapoorji Pallonji and Company Private Limited	INR 252 Cr. + interest	-	Party	-	-	Pending at SCOPE FORUM	1. Dispute in delay analysis 2. Extra Claim	Counter Claim under finalization
	<b>Total</b> (if RSP is 2nd party, amount not considered)		<b>Rs. 355.60 Crores (approx.)</b>	<b>Rs. 6.46 crores</b>						

\*Exchange Rate of EURO is as on 27.09.2019

**(B) On-going court cases:**

Sl. No.	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by (Party/SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
6.	Structural works for extension of Mould and Segment Repair Shop of SMS-II.  Pkg.027B1 A/T No.	Pioneer Industries	INR 2.14 Crores	--	Party	Officer Associated with Arbitration: G. Mishra	Sri N.C. Sahoo, Sole Arbitrator, Rourkela	District Court, Sundergarh	Recovery against RPN action	1. SAIL, RSP made a counter claim to the claim made by the party before the arbitrator. 2. Arbitral awarded in favour of RSP, INR 3.24 Lakhs to be paid by party to RSP. 3. Party has been intimated to pay the

Sl. No.	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by (Party/S AIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
	PROJ/MM/TN (P)/589(027B1-Structural)/212/10049187 Dtd.30.11.2010					Project Manager: Subrat Sen				amount. But the party has not shown any interest.. Therefore RSP filed a case in District court, Sundergarh on 14.05.2019 for execution of arbitral award. 4. First hearing on 26.06.2019. 5. Hearing held on 22.10.2019. 6. Hearing held on 14.02.2020. 7. Hearing held on 13.07.2020 8. Next Hearing scheduled on 23.11.2020 9. Case under progress.
7.	Supply of PSC Sleepers Pkg.001B A/T No. P/ Proj/697 (001B)/79204/10049153 dtd.24.08.2010	Orissa Concrete & Allied Industries	INR 14.74 lakhs	--	Party	Officer Associated with Arbitration: G Mishra RSP Law:- S K Raju  Project Manager: D K Sahoo	Sri G.C.Mohapatra , Sole Arbitrator, Rourkela	District Court, Sundergarh	Dispute in deduction of LD	1. Party has claimed Rs14.74 lakhs from RSP. 2. In arbitration- No amount is to be paid by any party(M/s Orissa Concrete & Allied Industries/RSP 3. Award of Sole Arbitrator challenged at District court, Sundergarh by M/s Orissa Concrete & Allied Industries on 18.11.2016. 4. Hearing held on 18.03.2020. 5. Hearing held on 07.05.2020. 6. Hearing held on 09.07.2020 7. Hearing held on 04.09.2020 8. Next Hearing scheduled on 21.10.2020 9. Case under progress.
8.	Installation of BF#5 Pkg.10 Contract No. P/PROJ/643(10)/79001/0 8049126 dated 02.10.2008	Consortium of Danieli Corus B.V & Tata Projects Ltd	Euro 16.70 million* + interest + 325crores + interest = approx. 619 crore in INR excluding post award interest	--	Party	Officer Associated with Arbitration: A.K. Behera, Sunil Kumar (Retd.), Gautam Das (Retd.), Samir Ray, Ravi Banjare. Project manager: D Prasad	Arbitration Tribunal by ICC, Paris	Delhi High Court	1. Dispute in delay analysis 2. Deduction of LD 3. Payment for extra work and balance quantity	1. Rs 619 crore approx. including interest up to award (additional post award interest) in favor of the agency as per ICC tribunal award. 2. Counter claim of INR 211.79 crore by RSP not admitted. 3. Tribunal award challenged in Delhi High Court by Corporate Law Deptt. Case under progress. 4. No hearing took place on 19.08.2019 5. No hearing took place on 19.11.2019. 6. Hearing held on 20 & 24.01.2020 7. Hearing held on 12.02.2020. 8. Hearing was scheduled on 28.02.2020. As the senior learned counsel was unavailable on this date, the matter was listed for hearing on 03.03.2020. 9. Hearing held on 03.03.2020. 10. List for hearing on 13.03.2020. 11. Hearing held on 13.03.2020. 12. Hearing on 03.04.2020 not taken up due to COVID-19. 13. Hearing held on 25.08.2020 14. Next hearing scheduled on 08.12.2020 15. Case under progress.
9.	SAIL vs M/s Psyteme, Gmbh & oth	M/s Psyteme,	-	-	SAIL		Justice Prathiba M.	High Court, Delhi	Dispute in breach of	1. Indian Council Of Arbitration's award dated 04.09.2013 directed SAIL to pay

Sl. No.	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by (Party/S AIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
	Width Measurement System in Hot Strip Mill A/T No. P4/654/09201 dated 28.08.2002	Germany					Singh		contract terms.	<p>Euro 30,690 to M/s Psyteme, Germany and Rs. 11,09,619/- to M/s Shridhar Mantri (Other claimant) with interest.</p> <ol style="list-style-type: none"> <li>Case filed against the above said award in Hon'ble High Court, Delhi.</li> <li>Hon'ble High Court rejected claim of party and claim of SAIL on 26th Aug'19.</li> <li>Appeal filed against the order at Division Bench of Hon'ble High Court, Delhi by Corporate Law.</li> <li>Hearing on 16.04.2020 not taken up due to COVID-19.</li> <li>Hearing held on 07.08.2020</li> <li>Hearing held on to 14.09.2020</li> <li>Next hearing scheduled on 08.10.2020</li> </ol>
10	SAIL vs M/s EPI Reheating Furnace in Hot Strip Mill & Plate Mill	M/s EPI	Rs. 20.61 Cr.		SAIL	-	-	Supreme Court	Dispute in non-payment.	<ol style="list-style-type: none"> <li>On the basis of Settlement Agreement/ MoM dt-01-02.02.2001, SAIL agreed to pay Rs.847.87Lakh to EPI.</li> <li>SAIL paid Rs400Lakh on 28.06.2002 as per PMA Arbitrator interim order dtd 30.05.2002.</li> <li>Appellate authority vide order dated 17.02.2011 upheld PMA arbitrator award of Rs849.63Lakhs and directed SAIL to pay Rs.2061.3Lakhs to EPI (balance payment including interest payment.)</li> <li>SAIL has filed WP 7970/2012 &amp; LPA 98/2015 in High Court, Delhi, which were dismissed.</li> <li>SAIL has filed case in Honourable Supreme Court vide SLP(C) 13936-2018.Matter is subjudice at Hon'ble Supreme Court</li> <li>Next Hearing scheduled on26.10.2020</li> <li>Case under progress.</li> </ol>
11	SAIL vs M/s Simplex Engineering & Foundry Works (Sinter Plant-2)	M/s Simplex	Rs 13.41 Cr.		SAIL	-	-	High Court, Cuttack	<ol style="list-style-type: none"> <li>Balance Payment for FAC &amp; Cooler Roof</li> <li>Escalation for Building &amp; Technological Structures, Plant &amp; Equipments and Erection of Plant &amp; Equipments</li> </ol>	<ol style="list-style-type: none"> <li>Award of Sole arbitrator challenged at High Court, Cuttack on 19.02.2018</li> <li>Case under progress.</li> </ol>

Sl. No.	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by (Party/SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
12	Procurement of P-way Fittings for rail track of New HSM Contract no.- 042/697/1692000033/01/00/18049006 dtd. 17.01.18  Reg No. 7/2019 Case No.: ARBP-07 of 2019	M/s Bridge Track & Tower Pvt. Ltd.	-	-	M/s Bridge Track & Tower Pvt. Ltd.	G. Mishra	-	District Court, Sundergarh	Against the RPN recovery action taken by RSP.	1. Order dtd. 27.11.19 received from Registrar District Judge, Sundergarh. 2. Ld. District Judge has given stay order for recovery action initiated by RSP. 3. Hearing held on 17.01.2020. 4. Hearing held on 12.03.2020. 5. Hearing held on 22.04.2020. 6. Hearing held on 17.08.2020 7. Next hearing scheduled on 19.10.2020
	<b>Total</b> (if RSP 2 <sup>nd</sup> party amount not considered)		<b>Rs. 758.91 Crores (approx.)</b>	-						

\*Exchange Rate of EURO is as on 27.09.2019

**(C) On-going cases (MSME)**

Sl. No	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by (Party/SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
13.	Rebuilding of coke oven battery #4  Contract No. P4/740/07049045 dtd 01.06.2007  Principal contractor: MECON Sub-Contractor engaged by MECON:- KCS Pvt. Ltd.	KCS Pvt. Ltd.	17.08 Lakhs + 7.82 Lakhs + 0.60 Lakhs+ 0.97 Lakhs = Rs.26.47 Lakhs	--	Party	Officer Associated with Arbitration: L.K.Bari  RSP Law:- S K Raju  Project Manager: K.B.Das	--	MSEFC, Cuttack  MSME CASE No.- 28/2018, 29/2018, 30/2018 & 31/2018	KCS vs MECON  RSP has been made 2nd party to the case (on the basis that RSP is the principal contractor of MECON).  Delay in payment/ Non payment by MECON.	1. KCS (Subcontractor of MECON) has filed 4 no. of cases against 4 work orders issued by MECON. 2. RSP has petitioned before MSEFC, Cuttack not to be made party on 15.03.2019. 3. Hearing held on 16.07.2019. Case under progress. 4. Case taken up by RSP, Law deptt.
14.	Upgradation of CCD  Contract No. P/Proj/641/79001-3/08049140 dated 01.11.2008  Principal contractor: IMECO Sub-Contractor engaged by IMECO:- KCS Pvt. Ltd.	KCS Pvt. Ltd.	29.09 Lakhs	--	Party  KCS vs IMECO	Officer Associated with Arbitration: L.K.Bari  RSP Law:- S K Raju  Project Manager: K B Das	--	MSEFC, Cuttack  MSME CASE No.- 27/2018	KCS vs IMECO  RSP has been made 2nd party to the case (on the basis that RSP is the principal contractor of IMECO).  Delay in payment/ Non payment by IMECO. RSP has been made a party.	1. KCS (Subcontractor of IMECO) has filed case against IMECO. 2. Further the order for IMECO has been cancelled after RPN issued to them by RSP for breach of Contract. The issue between IMECO and RSP is pending arbitration in SCOPE.(Ref. SI No. 6) 3. RSP has petitioned before MSEFC, Cuttack not to be made party on 15.03.2019. 4. Case taken up by RSP, Law deptt.

Sl. No	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by (Party/SAIL)	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
15.	Structural work for BOF complex at SMS-II (Pkg-30B1)  Contract No. P/Proj/619(30B/1)/Strl./08049097 dtd 05.08.2008	KCS Pvt Ltd	76.83 lakh	--	Party	Officer Associated with Arbitration: M.Sethi  RSP Law:- S K Raju  Project Manager: S.Sen	--	District Court, Sundergarh	Non payment, Delay in payment, Recovery against non SAIL steel, LD on price variation, Service tax claims.	<ol style="list-style-type: none"> <li>Counter claim of Rs3.55 Crore has been filed by RSP before MSEFC, Cuttack on 17.07.2019.</li> <li>Case taken up by RSP, Law.</li> <li>Letter received from Law on 30.08.2019 stating that the party has denied all the allegations made in RSP's counter statement. Comments on statement filed by the party made &amp; sent to Law deptt.</li> <li>Sitting held on 20.09.19 at MSEFC, Cuttack.</li> <li>Award of MSEFC have been given on 20.09.2019. SAIL has to pay amt of Rs.63.34 Lakhs + Rs 1.18cr. interest upto 30.11.18.</li> <li>The same has been challenged at High Court Odisha on 19.12.2019 and District Court, Sundergarh on 18.01.2020.</li> <li>Hearing held on 26.03.2020, 30.06.2020 &amp; 03.09.2020 at District Court, Sundergarh.</li> <li>Next hearing scheduled on 20.10.2020</li> </ol>
16.	Structural work for BOF complex at SMS-II (Pkg-30B1)  Contract No. P/Proj/619(30B/1)/Strl./08049097 dtd 05.08.2008	Vedvyas Engg Work	73.01 Lakhs	--	Party	Officer Associated with Arbitration: M.Sethi  RSP Law:- S K Raju Project Mgr: S.Sen	--	District Court, Sundergarh	Non- payment, Delay in payment, Recovery against non SAIL steel, LD on price variation, Service tax claims	<ol style="list-style-type: none"> <li>Counter claim of Rs3.69 Crore has been filed by RSP before MSEFC, Cuttack on 17.07.2019.</li> <li>Case taken up by RSP, Law.</li> <li>Letter received from Law deptt. on 30.08.2019 stating that the party has denied all the allegations made in RSP's counter statement. Comments on statement filed by the party made &amp; sent to Law deptt.</li> <li>Sitting held on 20.09.19 at MSEFC, Cuttack.</li> <li>Award of MSEFC have been given on 20.09.2019. SAIL has to pay amt of Rs.49.90 Lakhs + Rs77.98 lakhs. interest upto 31.12.18.</li> <li>The same has been challenged at High Court Odisha on 19.12.2019 and District Court, Sundergarh on 18.01.2020.</li> <li>Hearing held on 26.03.2020 &amp; 22.06.2020 &amp; 24.07.2020 at District Court, Sundergarh,</li> <li>Next hearing scheduled on 08.10.2020.</li> </ol>
	<b>Total Claims (if RSP made a 2nd party amt not considered)</b>		<b>Rs. 1.50 Cr.</b>							



**Summary:**

- (A) Arbitration Cases : 5 (Parties Claim = Rs. 355.60 Crores)  
(RSP's Claim = Rs. 6.46 Crores)
- (B) Court Cases : 7 (Claim by parties = Rs. 758.91 Crores)
- (C) MSME cases : 4 (Claim by parties = Rs. 1.50 Crores)
- (D) Total cases : 16 (Total Claim value = Rs. 1116.01 Crores)

## Annexure-I

### RPN cases in Capital Projects – Contracts Cases

Sl. No.	Name of the party	Name of the package & Pkg. No.	Name of Work	Contract Termination Date	Date of Award of Contract for balance work	RPN Amount Recoverable	Recovered amount if any (BG Amount)	Outstanding RPN amount	Forum/court in which the case is pending
1	HEC/SPCL	New OBBP & Base Blending Facilities (Pkg.090)	Automatic roll Grinding system for Roll Crusher for Turning Crusher roll	23.12.2016	28.03.17	Rs.5.34 Cr	Rs.5.34 Cr	NIL	--
2			Installing remote programming facilities and anti-collision system for Stacker cum Reclaimer	28.04.2018	05.06.2018	Rs.0.47 Cr	Rs.0.47 Cr	NIL	--
3			General Civil Works Maintenance Access to Raw Material Yard on OBBP	23.04.2016	23.04.2016	Rs.0.86 Cr.	Rs.0.86 Cr.	NIL	--
4			Supply of 36 sets of Tapered roller	Part	10.04.2013	Rs. 0.50 Cr.	Rs. 0.50 Cr.	NIL	--
5			Removal of Spillage Materials	Part	17.01.2013	Rs. 0.04 Cr.	Rs. 0.04 Cr.	NIL	--
6			Replacement of bearing of support roller of Barrel Reclaimer	Part	29.06.2013	Rs. 0.05 Cr.	Rs. 0.05 Cr.	NIL	--
7			HT Motor for Flux Crusher# 5 of OBBP	Part	18.10.2013	Rs. 0.02 Cr.	Rs. 0.02 Cr.	NIL	--
8			Civil works for foundation of jacking pads	23.12.2016	15.02.2019	Rs. 0.67 Cr.	Rs. 0.67 Cr.	NIL	--
9	UB Engg. Ltd.	Slab Caster (Pkg.035)	Erection, Assistance during Testing & Commissioning of Plant & Equipment of 3 <sup>rd</sup> BOF Converter and Caster for SMS-II	20.08.2015	28.09.2015	Rs. 1.65 Cr.	Rs. 1.25 Cr.	Rs. 0.40 Cr.	Demand was sent to NCLT for recovery. BG encashed 16.09.2017.
10	UB Engg. Ltd.	Interplant piping for fuel & gas (Pkg.076)	EMS for Interplant Gas pipeline- RPN 1	21.04.2016	02.12.2016	Rs. 20.05 Cr.	NIL	Rs. 20.05 Cr.	Notice for conciliation sent to M/s U.B Engg on 05.10.2016. Since there was no response from the agency demand was sent to NCLT for recovery.
11			Balance Job of Interplant Gas pipeline- RPN 2	21.04.2016	03.05.2016		NIL		
12			Painting work for Structural and pipelines	21.04.2016	14.05.2016		NIL		
13			Painting work for Structural and pipelines	21.04.2016	14.05.2016		NIL		
14			Furnace Oil Pipeline from CP I- CPP II	21.04.2016	18.11.2016		NIL		
15			Supply of Balance Item for Energy Monitoring System	21.04.2016	06.11.2018		NIL		

## Annexure-I

### RPN cases in Capital Projects – Contracts Cases

Sl. No.	Name of the party	Name of the package & Pkg. No.	Name of Work	Contract Termination Date	Date of Award of Contract for balance work	RPN Amount Recoverable	Recovered amount if any (BG Amount)	Outstanding RPN amount	Forum/court in which the case is pending
16	Shriram EPC Ltd.	New by product plant for COB#6 (Pkg. CET-06)	Procurement of Citric Acid	25.09.2014	25.09.2014	Rs. 0.017 Cr.	Rs. 0.017 Cr.	NIL	--
17			Procurement of Disulphonic Acid	28.10.2014	28.10.2014	Rs. 0.51 Cr.	Rs. 0.51 Cr.	NIL	--
18			Procurement of Sodium Ammonium Vanadate	19.11.2014	19.11.2014	Rs. 0.26 Cr.	Rs. 0.26 Cr.	NIL	--
19			Procurement of Sol-R Oil	20.03.2014	20.03.2014	Rs. 2.68 Cr.	Rs. 2.68 Cr.	NIL	--
20			Procurement of Sodium Carbonate	05.08.2014	05.08.2014	Rs. 0.416 Cr.	Rs. 0.416 Cr.	NIL	--
21	Simplex Infrastructure	SMS-II (Pkg.030A)	Civil works for BOF & CCP	20.12.2013	26.12.2013	Rs. 0.316 Cr.	Rs. 0.316 Cr.	NIL	--
22	Pioneer Engg., Rourkela	SMS-II (Pkg.027B2)	Structural Works for Mould & Segment Repair Shop	15.05.2014	22.03.2014	Rs. 0.031 Cr.	NIL	Rs. 0.031 Cr.	Arbitration award in RSP favour. Party has been intimated to pay the amount. But the party has not shown any interest. Therefore RSP filed a case in District court, Sundergarh on 14.05.2019 for execution of arbitral award. Hearing held on 14.02.2020. & 13.07.2020. Next hearing on 23.11.2020. Case under progress.
23	IMECO, Bhilai	CCD Upgradation	Upgradation of Existing CCD: Knock-Out Pots, Condensate Seal Pot, Gas Mixing Tank, Inter-connected Gas Pipes, Valves, receipt & storage of Sulphuric Acid	20.12.2011	14.12.2011	Rs. 4.26 Cr.	NIL	Rs. 4.26 Cr.	Under arbitration at SCOPE
24	Trans Tech Turnkey Pvt Ltd	New Plate Mill (Pkg. 241)	Air-conditioning System for New Plate Mill	Not Terminated.	27.12.2018	Rs. 4.69 Cr.	NIL	Rs. 4.69 Cr.	BG encashed for Rs90,90,000/- on 03.08.2019.

## Annexure-I

### RPN cases in Capital Projects – Contracts Cases

Sl. No.	Name of the party	Name of the package & Pkg. No.	Name of Work	Contract Termination Date	Date of Award of Contract for balance work	RPN Amount Recoverable	Recovered amount if any (BG Amount)	Outstanding RPN amount	Forum/court in which the case is pending
									Demand for recovery was forwarded to F&A (Proj.) on 09.03.2019. Demand sent to F&A Estt for circulation to all SAIL Plant
25	ARSS Infra Projects Ltd., Bhubaneswar	Railway infrastructure (Pkg. 103)	Construction & upgradation of railway track works for RSP yard & in plant new lines / Loco Escape Line in NCCY Area	Part	23.08.2013	Rs. 0.27 Cr.	Rs. 0.27 Cr.	NIL	--
26	Hindustan Steelworks Construction Ltd.	New HSM (Pkg.-IIB)	Site Preparation Work for New HSM	29.08.2018	07.09.2018	Rs. 0.39 Cr.	Rs. 0.39 Cr.	NIL	--
27	Technisys Engg Pvt Ltd	New HSM (Pkg.-IIE)	Re-routing Cable for New HSM	17.12.2018	31.12.2018	Rs. 0.56 Cr.	NIL	Rs. 0.56 Cr.	Demand raised across SAIL. No recovery done as on date.
28	Sharmila Enterprise		Balance supply, erection, testing & commissioning of street lighting system few roads in expansion area (Pkg 126/RPN-01)	17.04.2017	05.10.2019	Rs. 0.057 Cr.	Rs. 0.057 Cr.	NIL	PBG encashed 06.01.2020
29	Bridge Track & Tower Pvt. Ltd.	Railway Package for New HSM (Pkg. III)	Procurement of P-Way fittings for rail track of New Hot Strip mill	18.03.2019	23.03.2019	Rs. 0.32 Cr.	Rs. 0.04 Cr.	Rs. 0.28 Cr.	PBG ENCASHED ON 22.05.2019 Rs 3.97.427.00 Ld. District Judge has given stay order for recovery action initiated by RSP Hearing held on 17.01.2020, 12.03.2020,

## Annexure-I

### RPN cases in Capital Projects – Contracts Cases

Sl. No.	Name of the party	Name of the package & Pkg. No.	Name of Work	Contract Termination Date	Date of Award of Contract for balance work	RPN Amount Recoverable	Recovered amount if any (BG Amount)	Outstanding RPN amount	Forum/court in which the case is pending
									22.04.2020& 17.08.2020 Next hearing scheduled on 19.10.2020
30	Patil Rail Infra Pvt Ltd, Hyderabad	Railway Package for New HSM	Procurement of PSC sleepers for rail track of New Hot Strip mill						NIT issued against the RPN. One offer recvd. Party not suitable. Case under consideration at RITES.
31	M/s Suresh Chand Gupta	Railway Package	Construction and Upgradation of Balance Railway Track Work at SAIL/RSP, Rourkela		30.05.2020	0.01		0.01	Note sent to (F&A) Proj. for recovery on 30.05.2020.

**Arbitration cases in Capital Projects as on 10.10.2020**

**Plant: Bokaro Steel Plant**

Sl. No.	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
<b>Zone: Steel &amp; Power</b>										
1.	Ladle Drier and cooler for SMS II (Pkg. No.-28)	M/s Wellman Wacoma Limited, Kolkata	Rs 1.39 Crs.		Party			West Bengal Micro and Small Enterprises Facilitation Council, West Bengal	Interest, Prolong Cost, Ideal Labour charge, Watch & Ward, Cost of Extended BG & Insurance	Conciliator has decided to terminate the process of conciliation and shifted the case for arbitration as per Section 18(3) of MSMEFC Act 2006.
<b>Zone: SP, RMHP &amp; Aux</b>										
2.	Replacement of battery cyclones by 06 nos ESPs in Sintering Plant at BSL.	M/s Hamon Research Cottrell, USA & Shriram EPC, Kolkata	Rs 18 Crs	Rs 60 Crs.	Party	DGM(P)	Honorable Retd. Justice Late SB Sinha	ICC, Paris	<ul style="list-style-type: none"> <li>• Extended stay after completion of ESP#6.</li> <li>• Cost of materials laying in vendors premises.</li> <li>• Retention amount.</li> <li>• Price variation amount.</li> <li>• Outstanding amount.</li> </ul>	Evidence of Claimant's and Respondent's witness had been done in scope complex at New Delhi from 04/07/18 to 12/07/18. Hearing completed in Dec'18 and

Sl. No .	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
										decision awaited. Initial arbitrator died in 2019 before award of decision of arbitration. New arbitrator appointed and hearing is scheduled on 19/20.10.2020 through video conference.
3.	Construction of New Tracks & Signalling work & Rehabilitation of existing tracks in Rolling Mill Yard (Pkg 51A).	M/s ARSS Infrastructure Projects Limited, Bhubaneswar	Rs 13.25 Crs		Party	DGM(P)	Not Appointed	SCOPE, Delhi	<ul style="list-style-type: none"> <li>• Final bill</li> <li>• Price variation amount</li> <li>• SD&amp; En-cashed BG amount</li> <li>• Idle charge of plant &amp; machineries.</li> <li>• Loss of profit</li> <li>• Wrongful recoveries.</li> </ul>	Statement of claim has been submitted by party. In process of appointment of Arbitrator by SCOPE.
4.	Rehabilitation & Up gradation of existing tracks inside the plant	M/s ARSS Infrastructure Projects Limited,	Rs 72.60 Crs		Party	DGM(P)	Not Appointed	SCOPE, Delhi	<ul style="list-style-type: none"> <li>• Final bill</li> <li>• Price variation amount</li> </ul>	Statement of claim has been submitted by party. In process

Sl. No.	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status
	(Pkg 053).	Bhubaneswar							<ul style="list-style-type: none"> <li>• SD &amp; Encashed BG amount</li> <li>• Idle charge of plant &amp; machineries.</li> <li>• Loss of profit</li> <li>• Wrongful recoveries</li> </ul>	of appointment of Arbitrator by SCOPE.
5.	PKG.01: PLC based automation system for RMHP	M/s Paradigm Engineers		Rs 1.52 cr	BSL	DGM(P)	Not Appointed	Not decided	<ul style="list-style-type: none"> <li>• Initial cost difference. As under RPN order was placed on M/s Adarsha for Rs 3.07cr</li> </ul>	Approval of appointment of arbitrator in process by Project Division.
6.	Alternate Gas Network Inside Plant	M/s Tata Proj. Ltd	Rs 81.66 Cr		Party	DGM(P)	Justice V,K. Bali.	New Delhi	<ul style="list-style-type: none"> <li>• Escalation</li> <li>• Price variation to the contract.</li> <li>• Over stay cost of Project Management</li> </ul>	Nomination of arbitrator from Agency side completed. However, Nomination of arbitrator from BSL side not completed.



Sl. No .	Name of the package & Pkg. No.	Name of the Party	Claim of the Party	Claim of Plants/ Units	Initiated by	Dealing officer	Name of the Arbitrator	Pending at Forum	Reasons for Arbitration	Present Status	
	<b>Zone: Mills</b>										
7.	PLTCM (Pkg026)	M/s PTFR	Rs 15.13 crs.		M/s PTIN	DGM (Project Finance)	Mr. Justice Amitava Roy	Arbitrational Tribunal	<ul style="list-style-type: none"> <li>• Recovery of shortfall of minimum cenvat guarantee</li> <li>• Reimbursement of CST.</li> <li>• Payment of CC</li> </ul>	Case is being dealt by Finance Deptt. May be going for appeal to high court against decision.	
8.	Compressed Air Station for CRM III	Inox Air Products Ltd., Pune		Rs.4.43 Crs		CGM(P) Commercial	<b>Mrs. Justice (Retd.) Jaya Roy</b>	Arbitrational Tribunal, Ranchi	<p><b>Contract Termination – 27.11.10</b></p> <p><b>Date of Award of Contract for balance work – 07.07.11</b></p> <p><b>Amount Recovered:</b></p>	<ul style="list-style-type: none"> <li>• At present, the matter is still under arbitration and cross examination of representative of BSL(Claimant) concluded on 12.05.2017. Cross examination of respondent (M/s Inox AP) still pending for extension of mandate. <b>Recent status may be obtained from T&amp;C.</b></li> </ul>	
9.	Civil Works of CRM 3 (Pkg)	M/s L&T	INR 69.16	NA	Party	NA	<b>To be appointed</b>	SCOPE	<ul style="list-style-type: none"> <li>• Shortfall of guaranteed VAT</li> </ul>	Letter given for conciliation on	

	037A)		Crore						• Prolongation Cost	14/02/2020. Moving towards amicable settlement with M/s L& T. 02 nos of virtual meetings have been held between SAIL/BSL & M/s L&T.
<b>Zone: Blast Furnace</b>										
10.	CHSGP for BF#4 (Pkg.-3)	Geetanjali Enterprises	Rs 5.5 crs.	NA	Party	Sri A K Paswan, Sr Mgr (P)/ IZ	<b>Dr. M.K. Laik</b>	Arbitrational Tribunal, Ranchi	<b>Height of the conveyor gallery K-10 changed from 5100m to 7000mm</b>	Arbitrator mandate expired on 28/02/2019. A petition to be filed by claimant for extension of mandate
11.	Replacement of pipelines feeding to BFs from PH-1	Geetanjali Enterprises	Rs 2.0 crs.	NA	Party	Sri A K Paswan, Sr Mgr (P)/ IZ	<b>Dr. M.K. Laik</b>	Arbitrational Tribunal, Ranchi	<b>Closure of contract with imposition of LD.</b>	Arbitrator mandate expired on 28/02/2019. A petition to be filed by claimant for extension of mandate
12.	DFDS system for BF-2	F. Harley	Rs. 2.0 crs.	NA	Party	Sri A K Paswan, Sr Mgr (P)/ IZ		Pending at MSME, Kolkata	<b>Non-payment/ delayed payment by BSL</b>	Appointment of Arbitrator is pending.
<b>Zone: CO&amp;BPP</b>										
13.	CO Gas line in the zone affected	M/s H N Constructio	Rs. 9484161/	NA	Party	Sri A Raza, AGM (P)/	<b>Shri Rajiv</b>	Arbitrational Tribunal,	• Payment against commissioning	PAC was issued on 12.01.2011

	by Phenolic vapour in Coke-oven of Bokaro Steel Plant.	n.	-			CO&BPP	<b>Ranjan Mishra</b>	Ranchi	<ul style="list-style-type: none"> <li>• Payment against PG</li> <li>• Payment against FAC</li> <li>• Cost of extension of BG</li> <li>• Payment of BG recovered</li> <li>• Cost of BG for payment against BG and FAC</li> <li>• Establishment Cost</li> </ul>	<p>w.e.f. 31.05.2010. Project could not be commissioned due to non-availability of shut-down for blanking / de-blanking of the existing CO Gas pipeline.</p> <p>The case was under arbitration. Decision of arbitrator came in favour of M/s H N Construction. The award has been challenged before competent court at Bokaro in the month of September, 2019. <i>The decision of arbitration proceedings was in favour of M/s H N Construction. The award has been challenged</i></p>
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										<p><i>by SAIL/BSL before the Competent Court at Bokaro in the month of September 2019 on ground that the award has been passed without the extended mandate of the Arbitrator and thus it is infructuous in the eyes of the law. The next date of is fixed on 27.08.2020 for service report. But due to pandemic'19 ,the proceedings in the civil matters are kept in abeyance till further orders from Honorable Jharkhand High court.</i></p>
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**RPN cases in Capital Projects – Contracts Cases**

Sl. No	Name of the Original party	Name of the Pkg & Pkg. No.	RPN Date/ Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration/ litigation	Forum/court in which the case is pending
	<b>Zone: SP, RMHP &amp; Aux</b>						
1	<b>M/s Hamon Research Cottrell, USA &amp; Shriram EPC, Kolkata</b>	Replacement of Battery Cyclones with ESPs in Sinter Plant	27.12.2016	21.07.2017	INR 3.68 Crs.	Counter claim against M/s SEPC is INR 59.76 Cr approx. in arbitration against stabilization of ESP#6, Liquidation of defects in upstream, completion of balance job, replacement of defective guides and dust cleaning through other mechanism.	Termination of defaulter party has been approved by the Competent Authority. NIT Issued with TOD 27.05.2016. Pre-Bid meeting held on 23.05.2016. RP Notice served on SEPC has been replied on last date of notice on 26.05.2016. TOD extended to 17.06.2016. Bids received from following bidders were opened and forwarded for evaluation to CET: 1. Tata Projects Ltd. 2. Unicon + HNCPL 3. Clair Engineers 4. Soil Enviro LOA issued on 21.07.2017 to M/s Unicon + HNCPL. Contract signed on 17.10.2017 at Contract price of Rs 52.59 Crs. net of Input tax credit on GST. ESP#2: shutdown work is under progress. Encashment of PBG (2 nos) from the defaulting party has been done.
2	<b>M/s Paradigm Engineers &amp; Consultants Pvt. Ltd., Jamshedpur</b>	Balance work of PLC based Automation System (Phase-I) (Pkg.-01) of Raw Material	22.06.2017	17.08.2018	INR 0.20 Crs.	INR 1.52 Crs.	Balance work under RPN has been awarded to M/s Adarsha Control, Bangalore. Contract signed on 19.09.2018 at contract price Rs 3.07 Cr net of ITC on GST. Work

Sl. No	Name of the Original party	Name of the Pkg & Pkg. No.	RPN Date/ Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration/ litigation	Forum/court in which the case is pending
		Handling Plant					completed on 31.10.2019. Case referred to BSL/LAW for invoking of conciliation and arbitration clause under Article 9 of GCC.
	<b>Zone: Mills</b>						
3	M/s Intricate Engineering	15/3T EOT crane in PH #9 (PKG 3)					RPN action has been initiated. <i>Party submitted drawing which is under approval by CET. Billing Schedule under approval.</i>
4	M/s Maxflow	HT cable Tunnel Ventilation (Pkg-102)					RPN action has been initiated and under approval. Balance work for TS to be submitted by MECON. PPM to expedite from MECON for submission of TS for balance work.
5	M/s UR Engineering	Misc Structural items – Coil, saddles, tackles and Plant Auxiliaries for CRM III (Pkg-046A)					RPN action has been initiated and under approval. Balance work for TS to be submitted by MECON. PPM to expedite from MECON for submission of TS for balance work.
	<b>Zone: Tender &amp; claims</b>						
3	<b>M/s Inox Air Products Ltd., Pune</b>	Compressed Air Station for CRM III (Pkg-010)	27.11.2010	07.07.2011	—	INR 4.43 Crs.	RPN work awarded to M/s BOC on 07.07.2011. Work completed in Sep'2013. Differential amount of Rs. 4.43 Cr. recovered. However, this recovered amount along with additional cost on Interest of Rs 76,86,282/- was refunded back to M/s Inox Air Products Ltd. in compliance to the order

Sl. No	Name of the Original party	Name of the Pkg & Pkg. No.	RPN Date/ Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration/ litigation	Forum/court in which the case is pending
							of the Hon'ble Jharkhand High Court in W. P. © No. 296 of 2013. At present, the matter is still under arbitration and cross examination of representative of BSL (Claimant) concluded on 12.05.2017. Cross examination of respondent (M/s INOX AP) still pending.
4	<b>Roselectroprom Holding, Russia (REP Holding)</b>	Installation of one new Turbo Blower in TB station- Main Package	24.09.2008	—	—	INR 20.68 Crs.	RPN work awarded to M/s NICCO+MES+SBW on 04-06-09. Work completed in Mar'12. RPN case has been referred to CO Law, who in turn sought conformity in regard to existence of the Company i.e. REP Holding, since the Company had not responded to our communications at any point of time. Law had further opined that in case the company ceased to exist, no award can be enforced against them. Even in case, the award be passed by spending substantial money as litigation cost, its execution shall be a complicated issue when SAIL/BSL have no details of assets of the M/s REP Holding as well as their whereabouts. <i>Vide letter dtd 28.09.11 for payment of Risk purchase differential amount was intimated to REP holding amounting to Rs 20.69 crs. Law Dept was requested to intimate the enhanced</i>

Sl. No	Name of the Original party	Name of the Pkg & Pkg. No.	RPN Date/ Contract Termination Date	Date of Award of Contract for balance work	Recovered amount if any (BG Amount)	Amount involved in arbitration/ litigation	Forum/court in which the case is pending
							<i>amount to nominee arbitrator to M/s REP since the matter was under arbitration. Further M/s REP may be asked to appoint their nominee arbitrator at the earliest to settle the issue.</i>
5	<b>M/s Megha Insulations Pvt. Ltd., Bhavnagar, Gujarat</b>	Procurement of Calcium Silicate Insulation Block	03.02.2018	—	—	Under Tendering. Still L-1 price yet to be discovered	NIT issued on 03.02.2018 with extended TOD on 24.04.2018. After several extension of TOD, tender was opened on 18.06.2018 and only one offer of M/s Sharda Insulation & Refractories', Champa received. Offer of M/s Sharda Insulation & Refractories, Champa is found not eligible by consultant CET & BSL. Case retendered. No party participated in RPN.



## List of Conciliation &amp; Arbitration Cases

status as on 05.10.2020

S. No.	Contract	Party name	CLAIM OF THE PARTY	CLAIM OF ISP	Conciliation / Arbitration / Court	Pending at	Reasons for conciliation / arbitration	Present Status
1	Power Distribution, Erection, Civil Work etc. for Electrical Repair Shop (Pkg. No. 42C)	M/s Hindustan Controls & Equipment Pvt. Ltd. & M/s Amiya Commerce & Construction Co. Pvt. Ltd.	-	Rs.5.99Cr.	Arbitration - RPN case	SCOPE	RPN was issued on 07.05.2012. Contract was terminated on 31.12.12. Recovery notice issued to consortium on 09.05.2016 for Rs. 5,98,73,214/-. Due to no response from the consortium after repeated reminders, they were invited for conciliation. The consortium did not respond for Conciliation too. Then ISP approached SCOPE forum for Arbitration proceedings.	ISP had filed the statement of claim before the SCOPE. Reply to counter statement was filed on 18.06.2018. SCOPE has not yet initiated the arbitration proceedings. SCOPE on 02.11.2018 & 11.12.2018 was again requested to initiate the arbitration proceedings. Consortium requested further time to submit their defense statement. ISP law department vide letter dated 16.01.2019, requested Scope forum to intimate the developments. M/s Amiya Commerce refused to pay arbitration fee. ISP requested vide letter dated 25.03.2019 to SCOPE to ask M/s Hindustan Control for fee payment. ISP has shortclosed another contract in which M/s Hindustan Control was also a party and Rs.38.53 lakh is payable to them. The same amount shall be adjusted from ISP's claim of Rs. 5.99 Cr. in this case.
2	Railway OHE, Hirapur (Package No. RLY04)	M/s Master Engineering	-	Rs.0.49Cr.	Arbitration - RPN case	SCOPE	RPN was issued on 16.11.2013. Contract was terminated on 25.12.2013. Recovery notice was issued to consortium on 17.11.2015 for Rs. 82,94,900/-. Due to no response from party, Party was called for amicable settlement. Due to failure of amicable settlement, party was invited for conciliation proceedings. Party did not respond for Conciliation. Then ISP approached SCOPE forum for Arbitration proceedings.	ARBITRATION HAS NOT YET COMMENCED.Claim has been reduced to Rs. 0.49 Cr. Notice of arbitration along with Statement of Claim was submitted on 11.12.2018 to SCOPE forum for initiation of arbitration proceedings. SCOPE sought certain clarification vide letter dated 18.12.2018 for which comments were also submitted to SCOPE forum on 28.12.2018 and SCOPE was once again requested to initiate the arbitration proceedings.
3	Structural Works for BOF, CCP, Lime & Dolo Plant (Pkg. 48A2) & Structural Works for Rolling mills Reheating Furnace(Pkg. 48B2)	M/s NCCL	Rs.6.51Cr. Plus interest	-	Court case	Calcutta HIGH COURT	Issue raised by M/s NCCL against deduction of amount from bills towards cess. a) Ld. Sole Arbitrator on 16.10.2015 directed SAIL-ISP to pay Rs.6,50,92,271/- with additional interest @9% from the date of filing of petition till date of award and thereafter @15% per annum till actual recovery. Arbitrator further directed to pay Rs.2,00,000/- as cost of proceedings. b) Both ISP & NCCL has challenged this award. c) Later on 27.09.2016, NCCL requested to pay 75% of arbitral award amount as per NITI AAYOG's memorandum dated 05.09.2015. d) A letter from ED (Law) & PLO dated 09.06.2017 was received wherein it has been clarified that in case of arbitration pertaining to construction sector where the award has been challenged by both the parties, the directions for deposition of 75% of the award of amount to the party cannot be enforced.	Hearing Ongoing. Court asked ISP to process refund of Rs 1.29 crores to NCC as amount deducted after passing of the arbitral award on 16.10.2015 and the same has been complied. As per directive of Hon'ble Highcourt a BG of value Rs. 6.50 Cr. has been submitted to Highcourt by ISP.
4	Water System Plant Intake DW+MW (Pkg. 20)	M/s P. K. Thakur	Rs.2.66Cr.	-	Arbitration	Calcutta HIGH COURT	Issue is amount kept on hold on account of shortfall in guaranteed CENVAT/VAT credit. PK Thakur appealed before the Calcutta High Court for appointment of arbitrator. ISP filed SLP before the Supreme Court of India. Supreme Court of India has appointed Ld. Ex Justice Bhaskar Bhattacharya as the Ld Arbitrator in the above matter	Arbitration hearings concluded 12.08.2019. ISP has been awarded the whole minimum guaranteed cervat amount.
	Water System Plant Intake DW+MW (Pkg. 20)	M/s P. K. Thakur	Rs.13.89Cr.	-	Court case	Calcutta HIGH COURT	Issue raised by M/s P. K. Thakur is for extra claim on account of rock cutting & disposal at WTP. MECON recommended that the claim related to rock cutting and its disposal is not admissible as per provisions of contract.	PENDING AT HIGHCOURT.

5	Interplant pipelines including Gas Mixing Stations (Pkg. 24)	M/s Tata Projects Limited	Rs.55.66Cr.	-	Arbitration	Calcutta HIGH COURT	Issue is amount kept on hold on account of shortfall in guaranteed CENVAT/VAT credit. Party has appealed in highcourt for appointment of arbitrator. ISP advised M/s TPL to follow Article 10, and accordingly settlements to be done through first amicable settlement and then conciliation, in case amicable settlement fails.	HIGHCOURT appointed Three bench Arbitrator panel 1. Shri G. N. Roy, presiding arbitrator 2. Shri S. B. Sinha (TPL), 3. Shri Bhaskar Bhattacharya (ISP). First hearing was held on 30.11.2018. As per directive of arbitral panel, Statemnet of claim of Rs. 77Cr. was filed by TPL against ISP, counter claim against TPL's claim has also been submitted by ISP. Last hearing scheduled on 18-19th April 2020 was cancelled. Next date of hearing is yet to be communicated by the arbitrator.
6	Supply and Commissioning of Turboblower at SAIL-ISP Bumpur	M/s SBW China & M/s TLT Engineering	Rs. 1.86 Crs.	Rs.7.03Cr. and USD1760044.50 with interest	Arbitration	ICA new Delhi		Arbitration hearings concluded on 31.08.2019, award reserve.
					Arbitration	Arbitrator appointed by HighCourt Calcutta	Turboblower commissioned in 05.03.2008, could not be operated on sustainable basis, and was put out of operation since 03.02.2009. A number of attempts were made by the consortium to set right the facilities but failed. Final rejection notice was issued by ISP on 03.09.2013. Thereafter attempts were again made by consortium but failed. Last trial was done in 10.01.2014. As per clause 13 of contract, ISP can reject facilities. In the meantime M/s TLT sent a notice of arbitration. ISP tried for conciliation before arbitration but nomination of member for conciliation committee was not given by the consortium. Ultimately ISP also had to invoke arbitration in ICA at New Delhi. TLT approached court for resolution of the matter. The court appointed an Arbitral Tribunal.	The Arbitration was conducted and after conclusion of the proceedings the Arbitral Tribunal had passed an award dated 17.04.2016 granting a sum of Rs. 2.23 Cr. along with interest @ 18% in favor of TLT. Against the said award of Arbitral Tribunal, SAIL-ISP filed an appeal before Alipore Court at Kolkata and thereafter at Calcutta High Court. The appeal application was heard on 04.02.2020 by Calcutta High Court where upon contested hearing by both the parties the Hon'ble Calcutta High Court set aside the Arbitral Award dated 17.04.2016 and gave the liberty to both the parties to have their disputes adjudicated by way of a fresh reference to different Arbitral Tribunal and accordingly in pursuance of the directions of the Hon'ble Court, Ex-Justice Bhaskar Bhattacharya (Retired) was appointed as the Ld. Sole Arbitrator. Fresh arbitration has started Statement of claim has been submitted & statement of defense is under preparation. Last hearing held on 19.09.2020, next date is yet to be communicated.
7	Sewerage Network (Pkg: 81B-1)	M/s Spacotech Equipments Ltd.	Rs. 2.5Cr.	Rs. 6.22Cr.	Arbitration	SCOPE	Inspite of repeated opprtunities given to the party as extension of contract completion time, party did not show any satisfactory progress. Ultimately PBG was sent for encashment with a security deposit (BG) encashment notice to party on 13.02.2012 on account of non-performance by the party. Thereafter, party filed arbitration petition in the matter of illegal and unlawful invocation of PBG and submitted claim of Rs. 2,48,23,986/- under various heads, before the arbitrator. Matter was tried for settlement through conciliation but failed after several conciliation meetings.	Arbitration proceedings are ongoing. Cross examination of respondent's witness is over. Last hearings scheduled on 20.04.2020, 04-05.05.2020 were cancelled and next date of hearing is yet to be communicated by the arbitrator.
8	Sewage Pumping Stations (Package – 81B-2)	M/s Spacotech Equipments Ltd.	Rs.1.1Cr.	Rs. 3.25 Cr.	Arbitration	SCOPE	Commercial notice issued on 16.03.2011 due to unsatisfactory progress of project by the party. Party again did not show any progress and as per terms of contract, PBG was sent for encashment with a security deposit (BG) encashment notice to party on 13.02.2012 on account of non-performance by the party. Thereafter, party filed arbitration petition in the matter of illegal and unlawful invocation of PBG and submitted claim of Rs. 1,09,99,790/- under various heads, before the arbitrator. Matter was tried for settlement through conciliation but failed after several conciliation meetings.	Arbitration proceedings are ongoing. Cross examination of respondent's witness is over. Last hearings scheduled on 20.04.2020, 04-05.05.2020 were cancelled and next date of hearing is yet to be communicated by the arbitrator.

9	Coal Pulverisation & Injection System (Pkg. 08)	M/s CISRI, China & M/s SPCL	Rs.23.75Cr. + revocation of order for imposition of LD + PVC payment for contractual period & extended period + BG extension charges + interest	-	Arbitration	SCOPE	5% LD imposed on party after delay analysis. M/s SPCL did not accept the same and requested ISP to withdraw the LD. As per contract, amicable settlement tried but failed and matter was referred to SCOPE forum on 09.12.2017 by M/s SPCL to resolve through conciliation. ISP submitted the consent for the same. Later on, considering cost involved in conciliation, ISP law suggested to resolve the matter directly through arbitration and accordingly M/s SPCL was communicated on 21.03.2018. On request of M/s SPCL the same was also communicated to SCOPE Forum on 11.04.2018.	SPCL filed statement of claim on 21.06.2018 to SCOPE. Statement of defense against their claim was also filed by ISP. Last hearing held on 29.07.2019. Earlier arbitral panel resigned on 13.09.2019. New arbitral panel has been formed by SCOPE. Hearing commenced through VC on 01.09.2020. Next hearing scheduled on 31.10.2020.
10	Additional Civil Works of Rolling Mills, BOF, CCP Complex including Lime & Dolomite Plant (Package No. 48C-1).	M/s L&T	Rs.33.70 Cr.	-	Arbitration	ICA new Delhi	M/s L&T raised issues related to PVC payment and deduction on account of shortfall in guaranteed taxes and duties. Amicable settlement failed. As per directive of conciliation committee, undisputed amount of Rs. 11.90 Cr. was released as steel credit note to M/s L&T. After various conciliation meetings, resolution through conciliation failed. M/s L&T vide letter dated 26.03.2018 invoked arbitration before ICA and consent for the same submitted by ISP on 13.04.2018.	Hearing concluded on 03.12.2019. Award given against SAIL, under process for preferring appeal before the Delhi High Court.
11	Erection testing & commissioning of plant & equipment including refractory of BOF & CCP	M/s UB Engineering limited	Rs.44.02Cr.	Rs.98.07Cr.	Court case - RPN case	NCLT	RPN was issued to consortium on 19.07.2014 due to unsatisfactory progress of work by the party. Contract was terminated on 01.08.2014 and balance jobs were executed through separate contracts by various agencies. Notice of Recovery of an amount Rs. 98.07 Cr. was issued on 15.06.2017. UBEL also filed claim against ISP and referred the matter for arbitration. UBEL has also filed insolvency to NCLT.	Claim for 98.07 crores was filed by ISP as 'operational creditor' before the Official Liquidator of UBEL but it was rejected. Therefore, an application has been filed on 26.06.2018 before NCLT Bombay for lodging the claim of ISP. Confirmation for acceptance of claim has not been received till date.
12	Top Pressure Recovery Turbine (Pkg. 18)	M/s Beijing Sino Steel Industry & Trade Group Corporation (SSIT), M/s Tangshang Iron and Steel Design and Research Institute Company Ltd., M/s Gillander Arbuthnot and Co. Ltd	Rs. 1.1 Cr	Rs.17.29Cr.	Arbitration - RPN case	ICC	RPN was issued to party on 21.04.2012 due to unsatisfactory progress of work. Ultimately contract was terminated on 30.11.2012 and balance jobs were executed through separate contract. ISP issued a recovery notice to consortium on 26.09.2015 for Rs. 17.29 Cr. Letter was issued to consortium on 21.07.2017 for conciliation. Consortium has agreed for conciliation. Letter was issued on 09.11.2017 to the consortium along with documents demanded by M/s Gillander for assessment of claim of ISP. M/s Gillander later on demanded drawings of Pkg. 18R-01, which were also submitted to them.	Arbitration has not yet commenced. ISP submitted petition letter in ICC for arbitration on 25.09.18. Statement of Claim has been filed to ICC for initiating Arbitration proceedings. ISP once again submitted the request of arbitration in ICC on 07.01.2020. ICC admitted the request. SOC is under preparation.
13	Dust extraction & dry fog system for coal & coke handling plant (Pkg. no. SE-15/6)	M/s F. Harley & Co. Pvt. Ltd.	Rs. 26 lakhs	-	Arbitration	SCOPE	Party has not accepted the LD imposed for delay in completion. Party has also raised issue for held payments due to shortfall in guaranteed CENVAT & VAT.	Arbitration has commenced. Cross examination of claimant's witnesses of both the side completed on 04.09.2019. Last hearing scheduled on 21.03.2020 was cancelled and next date of hearing is yet to be communicated.
14	Wire Rod & Bar Mill (Pkg. 15) - Guaranteed CENVAT	M/s Danieli	Rs. 26.87 Cr.	-	Conciliation	SCOPE	Party has raised issue for held up payments due to shortfall in guaranteed CENVAT & VAT. Party appealed for conciliation before SCOPE forum. ISP issued consent letter to SCOPE on 09.07.2018.	1st conciliation meeting was held on 31.01.2019 in New Delhi under sole conciliator appointed by SCOPE. Statement of defense submitted to conciliator on 28.03.2019. 2nd conciliation meeting was held on 02.04.2019. As per directive of conciliation committee Danieli visited ISP on 02.05.2019 for reconciliation of their payment statement. Last Conciliation meeting held on 18.06.19 and failed to settle the disputes through conciliation proceedings.

15	Structural Works for BOF, CCP, Lime & Dolo Plant (Pkg. 48A2) & Structural Works for Rolling mills Reheating Furnace(Pkg. 48B2)	M/s NCCL	48A2- Rs.101.85Cr. 48B2- Rs.66.01Cr.	-	Arbitration	SCOPE	<p>i. Release of withheld amount against Guaranteed CENVAT</p> <p>ii. Release of withheld amount against Guaranteed VAT</p> <p>iii. Reimbursement of variation in service tax in erection</p> <p>iv. Release of payment against final RA bill</p> <p>v. Reimbursement of insurance premium due to prolongation of contract</p> <p>vi. Release of payment towards price adjustment</p> <p>vii. Payment due towards additional costs or losses suffered due to prolongation of contract</p> <p>viii. Payment due towards adjustment of derived base rate</p> <p>The Conciliation Committee has communicated that conciliation has failed and failure report was sent to SCOPE on 26.11.2018 for initiation of arbitration proceedings.</p>	Arbitration proceedings are ongoing. SOC of NCCL submitted to SCOPE received on 12.03.2019. Statement of defense was filed on 25.10.2019. Rejoinder submitted by SAIL ISP in last hearing held on 18.02.2020 for both the packages. Next date of hearing is not yet finalised.
16	Sinter Plant (pkg. 06) - Guaranteed CENVAT	M/s L&T	Rs. 17.02 Cr.	-	Arbitration	SCOPE	<p>Party has raised issue for held payments due to shortfall in guaranteed CENVAT &amp; VAT.</p>	<p>Party appealed directly for arbitration on 15.06.2018. ISP vide letter dated 07.07.2018 advised L&amp;T to go first for conciliation, as per contract terms &amp; conditions. Consent letter to SCOPE issued on 06.02.2019. Since the contract was awarded to Consortium of M/s L&amp;T &amp; M/s Outotec Germany, SAIL ISP requested SCOPE Forum for inclusion of M/s Outotec in conciliation proceedings. SCOPE forum vide letter dated 05.03.2019 has asked M/s L&amp;T to include M/s Outotec and submit the statement of claim for initiation of conciliation. M/s L&amp;T vide letter dated 11.03.2019 has not agreed for the same and has unilaterally terminated the conciliation proceedings for adjudication through arbitration. SCOPE vide letter dated 02.04.2019 &amp; 12.04.2019 asked L&amp;T to initiate the conciliation procedure for termination but L&amp;T denied for the same vide letter dated 09.04.2019. Party approached ICC for arbitration. ICC vide letter dated 17.04.2019 requested ISP for arbitration. Statement of defense has been submitted to ICC on 04.09.2019. Last hearing scheduled on 05th &amp; 06th May 2020 was cancelled and next hearing scheduled on 05th &amp; 06th October 2020 is postponed but dates are yet to be communicated.</p>
17	HMDS (pkg.11A)	M/s Kuttner GmbH Germany & M/s Somani Kuttner	EURO 160342.32 INR 4.28Cr.	-	Conciliation	SCOPE	<p>Party has raised issue for held payments due to shortfall in guaranteed CENVAT &amp; VAT and other payment related issues.</p>	<p>Party requested for conciliation proceedings in SCOPE forum. Consent letter sent by ISP on 04.10.18 for conciliation. Since various issues have already been settled, Party is likely to withdraw / revise the statement of claim.</p>

19	Base Mix Plant (Pkg. 01C)	L&T	Rs. 45.85Cr.	-	arbitration	Arbitrator appointed by Delhi HighCourt	M/s L&T issued a notice of arbitration dated 27.09.2018 for disputes related to withheld payments (Guaranteed CENVAT, BG-Insurance charges etc.) and informed they will be notifying for arbitration to ICA/SCFA.ISP replied for the same to M/s L&T on 14.11.2018. M/s L&T approached SCOPE forum for conciliation. Consent letter for conciliation was on 21.02.2019.	L&T vide letter dated 15.03.2019 & 20.03.2019, terminated the conciliation and invoked arbitration under ICA. ISP issued consent letter to SCOPE for adjudication of disputes through arbitration vide letter dated 28.03.2019 under SCOPE forum. SCOPE vide letter dated 02.04.2019 & 12.04.2019 asked L&T to initiate the conciliation procedure for termination but L&T denied for the same vide letter dated 09.04.2019. M/s L&T vide letter dated 08.05.2019 (received on 13.05.2019) did not agree for arbitration under SCOPE forum and once again asked ISP to appoint arbitrator. ISP vide letter dated 17.05.2019 once again requested M/s L&T to proceed arbitration in SCOPE forum. Again M/s L&T vide letter dated 06.06.2019 did not agree for arbitration under SCOPE forum. ISP vide letter dated 14.06.2019 once again requested to conduct the arbitration under the SCOPE forum and the applicable rules thereunder. SCOPE vide letter dated 18.06.2019 has also asked L&T to submit the statement of claim. Finally on request of M/s L&T, Dehi HighCourt has appointed arbitrator.Arbitration proceedings are ongoing. Statement of defense by ISP was submitted to arbitrator on 14.11.2019. Last hearing was held on 24.08.2020 for cross examinaion claimint's witness.Next hearing is scheduled on 16th - 17th Oct2020.
20	COB #11 (Pkg.02)	BEC	Rs.20.44Cr.	-	Conciliation	SCOPE	Party requested ISP to release their withheld amount against guaranteed taxes and clause 7.4.3.6 and approached SCOPE for conciliation.	ISP agreed for conciliation proceedings in SCOPE on 25.10.2018 under Sole conciliator. Conciliation meetings were held on 24.07.2019 & 21.08.2019. As per directive of the conciliator, meeting of ISP & BEC also held on 27.08.2019 at ISP Burnpur for reconciliation of statement of claim. Ultimately Conciliation proceedings failed.
21	CDCP (Pkg. 03B)	BEC	Rs.13.45Cr. Plus interest	-	Conciliation	SCOPE	Party requested ISP to release their withheld amount against guaranteed taxes and clause 7.4.3.6 and approached SCOPE for conciliation.	ISP agreed for conciliation proceedings in SCOPE on 25.10.2018 under Sole conciliator. Conciliation meetings were held on 08.07.2019 & 06.08.2019. As per directive of the conciliator, meeting of ISP & BEC also held on 27.08.2019 at ISP Burnpur for reconciliation of statement of claim.Ultimately Conciliation proceedings failed.
22	Ore Handling Plant (Pkg.01A)	MBE	Rs.49.55Cr.	-	Arbitration	ICA/SCOPE	Party has raised issue for held payments due to shortfall in guaranteed CENVAT & VAT.	M/s MBE vide letter dated 17.01.2019 requested ISP to confirm for arbitration proceedings in ICA. ISP law suggested for conciliation/arbitration proceedings in SCOPE forum. Consent Letter for conciliation/ arbitration issued to M/s MBE on 05.02.2019 with approval of competent authority. ISP also gave consent for sole conciliator vide letter dated 16.09.2019. MBE vide letter dated 16.12.2019 unilaterally terminated the conciliation and invoked arbitration under ICA. ISP vide letter dated 04.01.2020 did not agree for the same and asked M/s MBE to initiate conciliation in SCOPE forum first. Section 11 application has been filed by M/s MBE in Calcutta high court. Hearing not yet commenced.
23	Balance Road, Storm Water Drain and Sewerage Network (Pkg. No: 31E)	Tantia Constructions Limited	Rs.39 Cr.	Rs. 24.93 Cr.	Arbitration-RPN case	ICA	RPN was issued to party on 22.01.2018 due to unsatisfactory progress of work. Ultimately, contract was terminated with effect from 26.02.18 and balance jobs are being executed through separate contract. ISP issued a recovery notice to consortium on 15.01.2019 for Rs. 24.93 Cr.	M/s Tantia has approached to ICA for arbitration and filed a ciam of Rs.39 Cr. against SAIL-ISP. ICA has been informed that arbitration can only be invoked on failure of conciliation, subsequent to failure of amicable settlement. Notice of Recovery from ISP has been issued to M/s Tantia Construction on 15.01.2019 for Rs. 24.93Cr.s. and M/s Tantia Construction have been invited for amicable settlement of dispute. Party has refused for such amicable settlement. ICA on 28.01.2019 has also directed ISP to file its statement of defense. Party later on agreed for conciliation and conciliation committee has been formed. 1st conciliation meeting was held on 06.03.2019. Party did not appear in 2nd conciliation meeting which was scheduled on 26.03.2019. Finally 2nd conciliation meeting held on 19.08.2019. As earlier statement of claim was submitted before ICA for arbitration, the conciliation committe asked M/s Tantia to submit fresh statement of claim which was submitted by them on 30.08.2019. The same was under examination by ISP/MECON for preparation of defense statement. M/s Tantia vide letter dated 26.05.2020 unilaterally terminated the conciliation proceedings.
24	BFSHS, BMHS & FAS for BOF (Pkg. 11-12)	M/s TechnoFab	-	-	Conciliation	SCOPE	ISP has not yet received statement of claim of party.	Party has apprched SCOPE forum for conciliation. Consent Letter for conciliation has been issued to SCOPE on 22.02.2019 with approval of competent authority. However SCOPE has been requested to adjudicate the case alongwith all consortium members of M/s TFML. SCOPE vide letter dated 08.03.2019, 15.05.2019 & 18.06.2019 has advised TFML to submit statement of claim and give comments on portion of consortium members.
25	SE 15/12 (COB#10- Structural work for new building and refurbishing of old building structure)	M/s IMECO & M/s Banerjee Enetrprise	Rs. 21.68 lakh	-	Court case	Calcutta High Court	Amount has been kept on hold from FAC payment of M/s IMECO (Consortium leader) due to shortfall in Guaranteed CENVAT by M/s Banerjee Enterprises (Consortium parter).	Party has filed petition in High Court Kolkata claiming unjustified hold of Rs.21.68Lakh from their bill. Details submitted to Law department on 19.02.2019. Party has also submitted a supplementary affidavit and the comments on the same have been submitted to ISP law department. Pending in Calcutta High Court.

26	Civil Work of BOF, CCP & LDPC (Pkg. no. 48A-1)	M/s SPCL	not mentioned	-	Conciliation	ISP	Party has invoked arbitration with an option to ISP to initiate conciliation proceedings vide letter dated 15.03.2019 for various claims (like CENVAT, extra items, BG&Insurance charges etc.).	As per advice of Law Department, before conciliation, party to be invited for amicable settlement. Amicable settlement meetings were held on 11.06.2019 & 19.07.2019. MOM has not yet been signed by M/s SPCL. Conciliation committee formed. 1st Conciliation meeting held on 06.03.2020. SOC by party has been submitted on 24.03.2020. Last conciliation meeting was held on 27.07.2020 via VC, however conciliation failed after detailed discussion.
27	Civil Work for Rolling Mill & Reheating Furnace (Pkg No. 48B-1)	M/s SPCL	not mentioned	-	Conciliation	ISP	Party has invoked arbitration with an option to ISP to initiate conciliation proceedings vide letter dated 22.09.2018 for various claims (like CENVAT, extra items, BG&Insurance charges etc.).	As per advice of law department before conciliation, party to be invited for amicable settlement. Amicable settlement meetings were held on 11.06.2019 & 19.07.2019. MOM has not yet been signed by M/s SPCL. Conciliation committee formed. 1st Conciliation meeting held on 06.03.2020. SOC by party has been submitted by party on 24.03.2020. Last conciliation meeting was held on 27.07.2020 via VC, however conciliation failed after detailed discussion.
28	Coal & Coke Handling Plant and pipe conveyors (Pkg. 01B)	M/s L&T	Rs. 76.78 Cr.	-	Arbitration	Independent Arbitral Tribunal, Delhi HighCourt.	Party has raised issue for held payments due to shortfall in guaranteed CENVAT & VAT.	M/s L&T vide letter dated 31.05.2019 submitted a notice of conciliation. Consent letter has been issued on 05.07.2019. M/s L&T submitted the statement of claim on 17.09.2019. However, Party unilaterally withdrew from conciliation and submitted a letter on 11.12.2019 for arbitration in ICA. ISP rejected the same and requested L&T & SCOPE to conduct conciliation under a sole conciliator appointed by SCOPE. Arbitration has started under an Independent Arbitral Tribunal appointed by Delhi Highcourt, statement of defense is under preparation by ISP.
29	Top pressure recovery turbine (Pkg. 18R-01)	M/sOriental NICCO Projects Pvt. Ltd.	Rs. 0.61 Cr.	-	Conciliation	SCOPE	Party has raised issue for held payments due to shortfall in guaranteed CENVAT & VAT and non-compliance of insurance.	M/s ONPPL vide letter dated 20.05.2019, submitted a notice of conciliation. Letter from SCOPE received on 13.06.2019 for consent of conciliation. Consent of conciliation issued on 09.08.2019. SOC not yet submitted by party in SCOPE.
30	Blast furnace Complex	Consortium of M/s POSCO E&C and M/s NCCL	not yet submitted	-	Conciliation	SCOPE	POSCO has raised issue for held payments due to shortfall in guaranteed CENVAT & VAT, BG extension charges & payment of change order. POSCO has raised issue for held payments due to shortfall in guaranteed CENVAT & VAT, interest on delayed payments and prolongation cost.	M/s POSCO vide letter dated 20.05.2020 & M/s NCCL vide letter dated 26.05.2020 requested for resolution of disputes through conciliation in SCOPE forum. ISP issued consent letter for the same vide letter dated 29.05.2020 to both M/s POSCO E&C & M/s NCCL jointly as a consortium. However, M/s POSCO vide letter dated 11.06.2020 & M/s NCCL vide letter dated 16.06.2020, independently approached SCOPE for initiating conciliation proceedings with ISP in exclusion to the other consortium member. M/s NCCL vide letter dated 15.06.2020 / e-mail dated 16.06.2020 has also asked ISP to give consent for their independent conciliation proceedings under the sole conciliator. ISP vide letter dated 22.06.2020 informed that as per contractual terms & conditions they cannot go independently for conciliation and conciliator proposal will be given by SCOPE as per claim amount. SCOPE vide letter dated 29.06.2020 asked the parties including ISP to mutually decide on joint conciliation or independent conciliation. M/s POSCO vide letter dated 06.07.2020 requested ISP to confirm for independent conciliation with M/s POSCO E&C by 10.07.2020 for which ISP reiterated its views vide letter dated 10.07.2020 regarding joint conciliation with POSCO & NCC in SCOPE forum as per contract agreement. M/s POSCO vide letter dated 15.07.2020, declared conciliation matter failed and they shall further proceed for arbitration.

**SSP -RPN/Arbitration Cases in Capital Projects – Contracts Cases**

Sl. No.	Name of the package & Pkg. No.	Name of the party	Party's claim	SSP's claim	Arbitration type	Initiated by	Pending at Forum/court	Reason for Arbitration	Present Status
1.	20–Hi Sendzimir Mill (Z-Mill-3) Contract No: PU- E782002/01, dated 27.09.2007.	M/s Waterbury Farrel, Canada + M/s Shri Ram EPC, Chennai.	USD 4,66,75,292 + Rs.5.50Cr.	Rs. 25.99 Cr. (net of BG)	RPN- Arbitration	SAIL /SSP	ICA	<p><b>Contract Termination -09.10.2012.</b></p> <p><b>Date of Award of Contract for balance work -15.01.2015</b> (Awarded to various parties)</p> <p><b>Amount Recovered: Nil</b></p>	<ul style="list-style-type: none"> <li>▪ Arbitration at International Court of Arbitration (ICA) forum at Delhi was in progress since 08.10.15</li> <li>▪ The matter was argued at length till October-2018 and awarded by ICA on 28-February-2019 in favour of SAIL / SSP.</li> <li>▪ The following are gist of the Award: <ul style="list-style-type: none"> <li>- M/s WF (First Respondent) and M/s SEPC (second respondent) shall jointly and severally pay Rs.19.52 Crore towards Claim of Risk Purchase.</li> <li>- Rs. 4,01,73,764/- as Pre-Award Simple Interest at the rate of 12% per annum from 12.06.2017 (i.e. Date of Supplementary Statement claim filed by SAIL/SSP) till date (Award date i.e. 28.02.2019).</li> <li>- Post Award interest at the rate of 12% on Rs.23,53,73,764/- (i.e. Rs.19,52,00,000 + Rs. 4,01,73,764) from the date of the Award till date of payment.</li> <li>- Cost of Arbitration to an Extent of 75% of the total Arbitral Costs incurred by SAIL/SSP. [i.e. USD 1,20,000 (ICC Fee) + Rs. 88,24,463/- (Legal fee and expenses) + USD 5,660 (costs towards Transcription services as arranged by SAIL/SSP)].</li> </ul> </li> <li>▪ Consequent upon the Award of Arbitration Tribunal, M/s WF vide notice dated 22.05.2019, had informed to appeal against the Award. Then, M/s WF has filed an application in the court of Principal District Judge, Salem on 10.06.2019 and hearings were held on 08.07.2019, 26.07.2019 and 09.09.2019 at Salem.</li> <li>▪ The Court asked SSP to file a counter by 16.10.2019 to the petition filed by M/s WF.</li> <li>▪ SSP filed the counter on 16.10.2019 at Salem Court and hearings were held on</li> </ul>

Sl. No.	Name of the package & Pkg. No.	Name of the party	Party's claim	SSP's claim	Arbitration type	Initiated by	Pending at Forum/court	Reason for Arbitration	Present Status
									<p>15th&amp;20th-Nov-2019, 05.12.2019, 10.01.2020, 04.02.2020, 27.02.2020 and adjourned to 30.03.2020.</p> <ul style="list-style-type: none"> <li>▪ Due to Covid-19 issue, court adjourned to 22.04.2020, then adjourned to 20.07.2020, 17.8.2020 and to 10.09.2020 and SAIL/SSP is to file rejoinder to the petition.</li> </ul>



**I.) RMD Arbitration Cases in Capital Projects – Ongoing (Status as on 07-10-2020)**

Sl. No.	Name of the package & Pkg. No.	Name of the party	Party's claim (INR)	RMD's claim (INR) (Counterclaim)	Initiated by Party/ SAIL	Dealing Officer	Name of The arbitrator	Pending at Forum/ court	Reason for Arbitration	Present Status
1.	Design and Engineering, manufacture, fabrication, supply, erection, commissioning and handover (after successful completion of performance guarantee test) of the Plant & Equipment including civil works for the Modification of Ore Processing Plant (Package A + Package B) at Barsua Iron Mine. (CA no. Contract/RMD/C/P&D/96-04 dated 27-11-1997)  <b>Cost of Project: INR.50,41,570.00</b>	M/s Indiana Conveyors Pvt. Ltd (ICPL)	10.18 Cr.	11.56 Cr. (Counterclaim)	Party	R K Banga GM (Proj.) RMD, Kolkata	Sri J Kanjilal , Ex-ED, SAIL	Sole Arbitrator	The Performance Guarantee Test (PG) was conducted from 17-03-2000 to 01-04-2000. The contractor failed the PG Test.	Arbitration in progress. Examination of SAIL witness going on. Last sitting was held on 24 & 25 <sup>th</sup> Feb'20. The next sitting was fixed from 21 to 23 <sup>rd</sup> April'20 but postponed due to COVID-2019. They have approached Steel Ministry vide letter dated 27 <sup>th</sup> April for withdrawal of case through arbitration and settle through mutual negotiation. The reply to letter has been forwarded to Corporate law through RMD dated 28-05-2020. Adjourned due to COVID-19. <b>No change in status.</b>
2.	Reclamation of water & Augmentation of facilities at Pump House Package-3 for Enhancement of Production Capacity to 5.5 MTPA of Kiriburu Iron Ore Mines. (CA No. RMD/K/PROJ/ KIOM/1142/CA/05092008 dated 17-12-2009) <b>Cost of Project: INR. 17,84,06,768/-(incl taxes)</b>  CENVAT Credit: INR.87,62,000/-	M/s Techno Fab Engineering Ltd. (TFEL)	4.79 Cr.	----	Party	Sri S S Sidar, GM (Proj), KIOM	Justice Subhro Kamal Mukherjee (Retd.)	<b>ICA</b>	12 months job was completed in more than 5 years.	Arguments from both sides completed (12 <sup>th</sup> sitting) on 08-02-2020 and award is awaited. Company under Insolvency now. As per order by sole arbitrator, arbitration proceedings continued and to be concluded. Adjourned due to COVID-19. Now award pronounced by Arbitrator and submitted to ICA. <b>Award copy not yet received.</b>

**III RMD Arbitration Cases in Capital Projects – Cases heading towards arbitration**

Sl. No	Name of the package & Pkg. No.	Name of the party	Party's claim (INR)	RMD's claim (INR)	Likely reason of arbitration	Present Status
1	Construction of Bachelors & married hostel at Gua vide CA no. RMD/K/PROJ/GOM/CA/14-15/056 dated 14-01-2015.	M/s R K Bajpai	----	1.08 Cr.	The contractor failed to complete the job.	Letter for recovery sent to Party. Reminder sent dated 26-12-2019 but no reply received from party regarding claim. Law department was consulted. Conciliation has failed. Letter sent for arbitration after vetting by Law Department. The letter for invocation of arbitration sent dated 13-07-2020 to M/s Raj Kumar Bajpai with three names of arbitrators. Reply received dated 31-07-2020 seeking contact details of 3 arbitrators to know about their fees. Reply sent dated 06-08-2020 asking to select 1 name and for fees, referring to Fourth Schedule of Conciliation & Arbitration Act 1996. The contractor selected arbitrator vide letter dated 13-08-2020. <b>File sent to Corporate office for the appointment of Arbitrator.</b>
2	Construction of building for auditorium cum training centre at Keonjhar (Pkg TK-2). (CA no. RMD/ K/ PROJ/ BOM/ CA/14-15/58 dated 06-02-2015)	M/s R K Bajpai	14 Cr.	1.40 Cr.	The contractor failed to complete the job.	Letter for recovery sent to M/s R K Bajpai. The party sent notice for conciliation and has counter-claimed INR 14 Crores. Consent for appointment of Conciliator by Dir (RM&L) was sent to party but he refused the proposal citing that name and status of proposed conciliator not mentioned and two conciliators be nominated by each. The conciliation could not be proceeding due to this disagreement hence party was told to deal the matter accordingly. No reply received from the party. Law department was consulted. Process for arbitration initiated and copy of letter of intimation sent to the contractor and SCOPE dated 18-06-2020. We have received response from SCOPE (Standing Conference of Public Enterprises) vide letter dated 29-06-2020. No reply received from contractor. As per advice of Law Department, amount of non-refundable registration fees as advised by SCOPE for registration is being deposited. <b>Matter is being referred to SCOPE Forum of Conciliation and Arbitration (SCFA) for arbitration as per terms &amp; conditions of the contract.</b>
3	Renovation of Road from CISF check gate hilltop to base camp at Kiriburu Iron Ore Mines (LOA no. RMD/K/ PROJ/ KIOM/LOA/17-18/096 dated 13-06-2017)	M/s Kamlesh Kumar Singh	-----	7.89 Lakhs	LOA (BINDING AGREEMENT) accepted but no agreement signed by the party. No work done by party.	Legal notice dated 20-08-2018 received against encashment of bank guarantee of INR 8.08 Lakhs. Reply sent on 18-09-19.  RPN- Recovery of INR 07.89 Lakhs sent followed by final reminder dated 24-12-2019. The party sent their representative for amicable settlement but not responding. Law department consulted for further course of action. Law Dept. has vetted the letter for conciliation. Name of proposed 3 nos conciliators received from Director (RM&L). Letter sent through email on 05-05-2020 to M/s Kamlesh Kumar Singh for invocation of conciliation and for choosing name of conciliator. No reply received.  Hence, Sri D N Mukherjee, Ex- GM (Law), CMO appointed as Sole conciliator by Director (RM&L) vide letter dated 15-07-2020 and communicated to M/s Kamlesh Kumar Singh & conciliator.  The conciliator sent notice to submit written statement of dispute by 09-09-20. Submitted to conciliator on 08-09-2020. <b>The 1<sup>st</sup> conciliation meeting conducted on 25-09-2020. The next meeting fixed on 06-11-</b>

**III] RMD Arbitration Cases in Capital Projects – Cases heading towards arbitration**

Sl. No	Name of the package & Pkg. No.	Name of the party	Party's claim (INR)	RMD's claim (INR)	Likely reason of arbitration	Present Status
						<b>2020.</b>
4	Repair and maintenance of BT road including drains & culverts at township- Ph I at Kiriburu Iron Ore Mines (LOA no. RMD/K/PROJ/KIOM/LOA/17-18/097 dated 27-06-2017)	M/s Kamlesh Kumar Singh	----	27.15 Lakhs	LOA (BINDING AGREEMENT) accepted but no agreement signed by party. No work done by party.	<p>Legal notice dated 20-08-2018 received against encashment of bank guarantee of INR 8.08 Lakhs. Reply sent on 18-09-19.</p> <p>RPN- Recovery of INR 27.15 Lakhs sent followed by final reminder dated 24-12-2019. The party sent their representative for amicable settlement but not responding now. Law department consulted for further course of action. Law Dept. has vetted the letter for conciliation. Name of proposed 3 nos conciliators received from Director (RM&amp;L). Letter sent through email on 05-05-2020 to M/s Kamlesh Kumar Singh for invocation of conciliation and for choosing name of conciliator. No reply received.</p> <p>Hence Sri D N Mukherjee, Ex- GM (Law), CMO appointed as Sole conciliator by Director (RM&amp;L) vide letter dated 15-07-2020 and communicated to M/s Kamlesh Kumar Singh &amp; conciliator.</p> <p>The conciliator sent notice to submit written statement of dispute by 15-09-20. Submitted dated 15-09-2020. <b>The 1<sup>st</sup> conciliation meeting conducted on 25-09-2020. The next meeting fixed on 06-11-2020.</b></p>
5	Crushing, Beneficiation and Pellet Plant at Gua Ore Mines (Pkg 001) RMD/K/PROJ/GOM/LOA/14-15/ 054 Dated 04.04.2014	M/s L&T and Consortium [M/s Metso Minerals (Sweden), AB, as Licensor and M/s Outotec GmbH as Consortium partner]	INR 250.09 Cr. + \$ 4,430,799/- + € 34,686,864/-	----	Notice of termination issued as contract has come to end on 02-10-2018 by efflux of time since no time extension has been granted on 02-10-2018.	<p>Notice of claim received. Proposed meeting postponed due to COVID-2019. Several meetings conducted. Three Meeting conducted with L&amp;T over VC. The process of mutual settlement failed and L&amp;T has intended to go for conciliation vide their letter dated 30-06-2020. No meeting on 03-07-2020. Letter for conciliation with 3 names of conciliators sent to M/s L&amp;T dated 03-08-2020 with option to choose 1 name as conciliator within 15 days. M/s L&amp;T disagreed with the names and proposed to choose among their list of 3 conciliators. Law department consulted and note sent to Dir (Tech) to agree for a conciliator. <b>Director (Tech.) with Addl. Charge of Director (RM&amp;L) advised to send alternate list. M/s L&amp;T declared termination of conciliation but the same was not agreed. M/s L&amp;T was intimated dated 03-10-2020 that there will be conciliation first. Sri S R Sanyal, Ex-ED (F&amp;A), ISP shall be conciliator in the matter.</b></p> <p><b>A brief of the whole development in the case has been sent on 06-10-2020 to Corporate Projects as per advise by Director (Technical, Projects &amp; Raw Materials).</b></p>

**RPN CASES IN CAPITAL PROJECTS (MEP and AMR Schemes) - Status as on 07-10-2020**

Name of the Plant/ Unit: Raw Materials Division (RMD)							
Sl. No.	Name of the Party	Name of the Pkg. no.	Contract Termination Date	Date of Award of Contract for Balance Work (LOA)	Recoverd Amount if Any (BG Amt.) (INR)	Amount involved in Arbitration/ Litigation (INR)	Forum/ court in which the case is pending
1	M/s Tecpro Systems Limited (TSL)	Enhancement of Loading Capacity of Bolani Ores Mines- CA no. RMD/K/GM (P)/CA/1211 dated 11.08.2008	14-08-2014	24 Sub Pkg. (19 sub-pkgs completed)	5.21 Cr. (BG)	18.99 Cr.	Interim claim was lodged with 'Resolution Professional (RP)' based on estimate for some RPN sub-pkgs. The case of admittance of claim was under National Company Law Tribunal (NCLT) through Law Dept., Corporate Office. NCLT advised to go for adjudication process. Notices for conciliation sent vide letter dated 02-01-2020 but no reply received.
2	M/s Tecpro Systems Limited (TSL)	Main Package (Package 1) Enhancement of Production Capacity to 6.5 MTPA of Meghahatuburu Iron Ore Mines- CA no. RMD/K/ PROJ/ MIOM/10-11/003 dated 10-05-2010	16-08-2014	RPN-1 09-10-2015  RPN 2- 30-06-2017	3.60 Cr. (BG)	7.72 Cr. (7.02 + 0.70)	<p>Before we proceed for Arbitration regarding our claim, NCLT has declared M/s Tecpro Systems Limited as 'Liquidated' as per Public Announcement dated 23-01-2020 and asked to submit claim by 14<sup>th</sup> Feb'2020. Claim has been filed with 'Liquidator' for M/s TSL along with Chandrapura Ferro Alloy Plant by Constituted Attorney, SAIL, New Delhi. Delay due to COVID-19 lockdown.</p> <p>Adjudication of claim through arbitration to proceed through Corporate Office, New Delhi as per the contract.</p> <p>Statement of claim for arbitration sent to Law Department. Fresh Power of Attorney awaited. <b>Certain changes suggested in the draft for claim statement of BOM through arbitration at SCOPE.</b></p>
3	M/s Techno Fab Manufacturing Ltd. (TFML, Lead Partner) & M/s Capital Engineering and Research Incorporation (CERI)	Installation/Upgradation of Conveyors and Crushing & Screening Building (Package- 2E) for the Enhancement of Production Capacity to 10 MTPA of Bolani Ores Mines- CA no. RMD/K/PROJ/BOM/CA/11-12/029 dated 18-01-2012 & amendment dated 03-08-2012	22-12-2017	RPN Pkg. 1- 04-01-2018  RPN Pkg 2- Under tendering (A,B,C&D)  RPN Pkg 3- 03-07-2018  RPN Pkg 4- Yet to tender	5.40 Cr. (BG)	51.86 Cr.	<p>Interim claim was lodged with 'Liquidator' based on estimate for 2 out of 4 RPN packages. NCLT in their judgement dated 03-01-2020 directed the Liquidator to consider the claim of the applicant as per rules within 2 weeks without fail. The liquidator has rejected our claim dated 16-01-2020. The issue has been taken up with Law Dept. for further course of action.</p> <p>SAIL RMD has approached NCLT against the rejection of claim by Liquidator of M/s TFML. Delay due to COVID-19 lockdown. <b>SCOPE vide letter dated 20-08-2020 asked M/s TFML to submit specific comment on letters dated 22-03-2019 &amp; 23-10-2019.</b></p>

### On-Going projects (>20 cr.) at a Glance (as on 30.09.2020)

AMR Schemes							
Sl. No.	Scheme	Cost (Including	Cum. Exp. Till	Approval		Approved	Likely/ Actual
		(Rs. Cr.)	( Rs. Cr)	In-Prin.	Final	Schedule	Completion
1	<b>Bhilai Steel Plant</b> Upgradation of Stoves for BF-4	75.95	51.24		Mar'13	Dec'14	Jan'21
2	Development of Rowghat Deposit Permanent Barracks at 21 Locations	188.93	155.43		Apr'14	Apr'15	^^
3	Installation of Cast House Defuming system in Blast Furnace No.7	23.49	17.39	Mar'14	Aug'15	Aug'16	Jan'21
4	Setting up of Static facility for Environmentally Sound Management of PCB	136.37	28.32	May'15	Jul'16	Oct'17##	Dec'20
5	Installation of ESP's as replacement of Multi cyclones for all 4 nos. of Sinter Machine SP-II	50.72	17.14	Jul'14	Aug'16	Sep'18	Feb'21
6	Treatment & Recycling of Waste water of Outlet-C at Bhilai Steel Plant	49.20	33.86	Dec'16	May'19	Aug'20	Dec'20
	<b>Total</b>	<b>524.66</b>	<b>313.18</b>				
	<b>Durgapur Steel Plant</b>						
1	Power Evacuation for 2X20 MW New Power Plant	55.61	49.68	Apr'13	Mar'17	Aug'18	Mar'21 (Linked to NPP)
2	Replacement of Converter shells together with Bottom Stirring System and Installation of Secondary Emission Control in all the three Converters of SMS	304.49	129.90	Dec'16	Dec'18	Sep'20	Sep'20 ###
3	Procurement of One no. Steam Turbine Rotor Assembly for Turbo-Blower Nos. 1-4 in Old Power Plant	27.58	0.00	Oct'16	Feb'19	Jan'20	Dec'20
	<b>Total</b>	<b>360.1</b>	<b>179.58</b>				
	<b>Rourkela Steel Plant</b>						
1	Power evacuation at 220 kV from NSPCL to MSDS-IV	59.5	5.02	Mar'19	Nov'19	May'21	May'21
	<b>Total</b>	<b>59.50</b>	<b>5.02</b>				
	<b>Bokaro Steel Plant</b>						
1	Balance work for Replacement of Battery cyclones with ESPs in Sinter Plant	69.18	67.45	Jan'05 (Original)	Jul'07 Jul'17 (RPN)	Aug'10 Dec'19(RPN)	##
2	New Sinter Plant	1111.24	482.31	Mar'11	Mar'15	Nov'17	Jun'20*
3	Modernization of SMS-I	1253.36	1025.78	May'13	May'15	Nov'17	Jan'20# (caster)
4	Rebuilding of Coke Oven Battery-8	285.06	162.17	Apr'14	Nov'16	Jun'19	Jun'20**
5	Up-gradation of 6 nos of ESPs of Lime Kiln	28.17	14.37	Jul'14	Jan'17	Jun'19	Feb'21
6	Development of alternate system for drawal of raw water from Damodar River from BSL & Township	107.74	14.36	Apr'18	Dec'18	Mar'20	Mar'21
	<b>Total</b>	<b>2854.75</b>	<b>1766.44</b>				
	<b>CFP</b>						
1	4 MW Power Plant	36.25	10.46	Nov'11 (Original)	Sep'12 Oct'14(RPN)	Feb'14 Apr'16(RPN))	\$
	<b>Total</b>	<b>36.25</b>	<b>10.46</b>				
	<b>RMD</b>						
1	Installation of Tertiary Crusher at MIOM	32.35	29.97	Jul'09	Sep'11	Mar'13	Nov'20
<b>&gt; 20 cr. Total</b>		<b>3,867.61</b>	<b>2,299.63</b>				
AMR Projects monitored by MoS, MoSPI & PMO							
\$ Contract terminated in May'19      ## Dependent on shutdown availability							
### Now likely Mar'21 (Under review)							
* Now likely De'21 (Under review)      ** Now likely May'21 (Under review)							
# Converter-First heat taken on 22.05.19; Caster - Now likely Oct'20 (Under review)							
^ Closure of contract initiated; ^^ 17 location completed in Nov'19. Balance 4 locations descope from contractor							
<b>Issued on 08.10.2020</b>							