

सेल SAIL

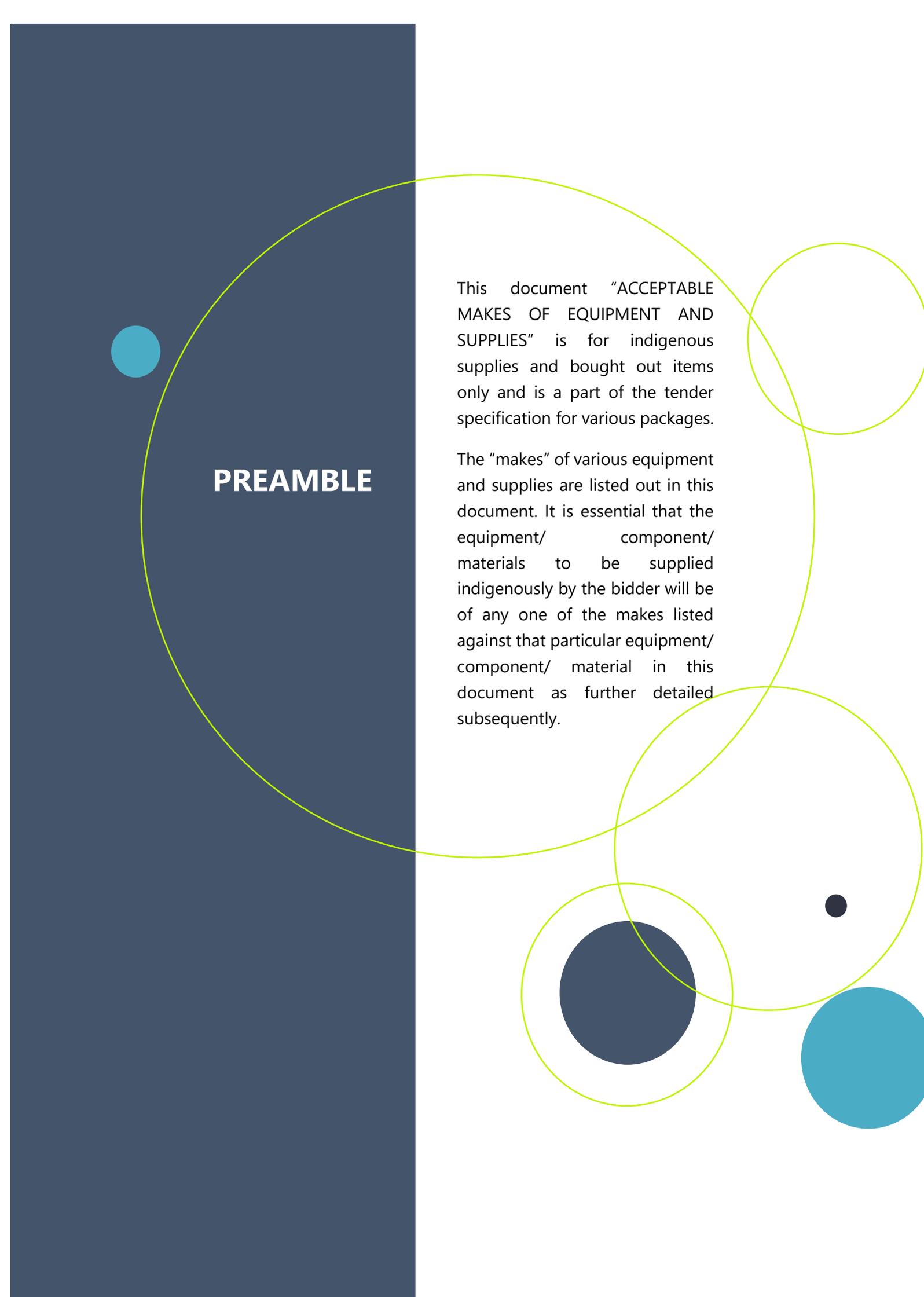
CET

Experience that delivers

LIST OF ACCEPTABLE MAKES OF EQUIPMENT & SUPPLIES

(Indigenous Supplies Only)

FEBRUARY 2026



PREAMBLE

This document "ACCEPTABLE MAKES OF EQUIPMENT AND SUPPLIES" is for indigenous supplies and bought out items only and is a part of the tender specification for various packages.

The "makes" of various equipment and supplies are listed out in this document. It is essential that the equipment/ component/ materials to be supplied indigenously by the bidder will be of any one of the makes listed against that particular equipment/ component/ material in this document as further detailed subsequently.

CATEGORY 'A' ITEMS

These are critical equipment and items. Contractor/ bidder to ensure that items listed under this category shall be supplied only from the makes listed.

In exceptional cases, if two or less makes out of the listed makes for a particular equipment/ item are available to the bidder/ contractor for supply then additional makes can be proposed. However, bidder/ contractor shall establish the non-availability of the listed makes. Additional makes proposed by bidder/ contractor shall be approved subject to fulfilling the acceptance criteria stipulated in next page.



CATEGORY 'B' ITEMS

These are equipment/ items are for general purpose. Bidder may suggest additional makes, if any, during tendering stage with credentials to fulfil the acceptance criteria stipulated in next page.

In case of non-availability of listed makes during implementation, procedure listed under category A will apply.





ACCEPTANCE CRITERIA

- The vendor shall have an established Quality Management System certified as per ISO-9001.
- The vendor should have installed or supplied at least one of the following within the last 7 years for the item(s):
 1. Either at least 2 references in any of the SAIL plants or RINL or NMDC steel (NSP).
 2. Or at least 3 references in any integrated steel plants.
 3. Or at least 3 references in Maharatna Public Sector Undertakings, Navratna Public Sector Undertakings, integrated steel plants, or registered Indian companies (excluding financial institutions) having a turnover more than Rs 7000 crores in the last financial year.
 4. Or at least 3 references satisfying any combination of the above three criteria.

Item-wise copies of purchase orders along with satisfactory performance certificate (minimum one year from the completion/ commissioning) issued by the end user for the above references shall be provided.

For refractory, item-wise copies of purchase orders along with satisfactory performance certificate / inspection certificate (by client or its representative) along with relevant documents giving evidence of supply for the above references shall be provided.

- A self-declaration from the vendor stating that the company is not blacklisted/ banned in any SAIL plants, PSUs or other government enterprises.

INSTRUCTIONS TO THE ENLISTED VENDORS

The enlisted vendors shall abide by following:

1. The newly enlisted* makes to this revision shall be provisional. Validity period of the newly added makes shall be two years from the date of placement of first order. During this period quality of the equipment and supplies shall be assessed based on the feedback from user departments. The continuation of the makes in the next edition of List of acceptable makes shall be dependent on feedback received from users.
2. The vendor shall:
 - Provide Budgetary quotations as and when requested by SAIL.
 - Ensure participation in applicable SAIL tenders or provide justification for non-participation.
 - Follow fair business and ethical practices in case of requirement of collaboration/ integration with other makes.
 - In case of direct bid, agree to the payment/ commercial terms and conditions of SAIL as per SBD.
 - Ensure compliance of delivery schedule.
 - Provide prompt after sales service and support.
 - Ensure that information/ documents provided are authentic.

* Newly enlisted vendors are shown in italics in this document.



Note: *The categorization has been given for ease of project management. However, in exceptional cases, empowered committee of the Plant may approve additional makes.*

DELISTING/ DELETION CRITERIA

Enlisted vendors in the "List of Acceptable Makes of Equipment and Supplies" will be delisted and their enlistment shall not be considered for next two years, in case of the following:

- Any two recorded negative performance/ after sales support incidents communicated from any of SAIL units.

Other Items not listed

Contractor may supply any other item not mentioned in this list from any make.

- One reference as per the acceptance criteria shall be provided.
- Self-declaration from vendor is required that the company is not blacklisted in any SAIL plants or PSUs.



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SECTION-A

**COMPUTERIZATION &
INFORMATION TECHNOLOGY**

**ACCEPTABLE MAKES LIST
SECTION-A**

S No.	ITEMS	CATEGORY	MAKE
1. IT EQUIPMENT			
1.1.	Desktop PC	B	ACER, DELL, HP, LENOVO
1.2.	Industrial PC / Semi-Rugged Laptop	B	ADVANTECH, DELL, PANASONIC, SIEMENS
1.3.	Laptop	B	DELL, HP, LENOVO
1.4.	Server	A	DELL, HPE, FUJITSU, LENOVO/IBM, ORACLE/SUN
1.5.	Network Switch/ Router/ WAP (IT, Office)	A	ALLIED TELESIS, APOLLO INFOWAYS PRIVATE LIMITED, CISCO, DELL, EXTREME, HP/HPE, RUCKUS
1.6.	Network Switch/ Router/ WAP (Industrial)	A	ADVANTECH, ALLIED TELESIS, CISCO, HIRSCHMANN, PHOENIX CONTACT(I) PVT.LTD, ROCKWELL, SCHNEIDER, SIEMENS
1.7.	Cyber Security Solutions (Hardware/ Software)	A	CHECKPOINT, CISCO, FORTINET, JUNIPER, SOPHOS, PALO ALTO
1.8.	Passive network components / accessories	B	DIGILINK/SCHNEIDER, MOLEX, RiT, ROSENBERGER, SYSTIMAX, TYCO (AMP)
1.9.	UTP cable	B	DIGILINK/SCHNEIDER, ELKAY, MOLEX, R&M INDIA PRIVATE LIMITED, RiT, SYSTIMAX, TELELINK, TYCO(AMP), UNIVERSAL
1.10.	FO cable	B	BELDEN, DIGILINK/SCHNEIDER, FINOLEX, LUCENT, MOLEX, RiT, R&M INDIA PRIVATE LIMITED, STARLITE, SYSTIMAX, TYCO(AMP), ROSENBERGER
1.11.	Data storage system	A	DELL/ EMC, FUJITSU, HP/HPE, HITACHI, IBM, NETAPP, ORACLE
2. CCTV SYSTEM			
2.1.	CCTV system	B	BOSCH, CP PLUS, HONEYWELL, PANASONIC, PELCO, PRAMA, SAMSUNG, SEIMENS, SONY, TYCO
2.2.	LED display (40" or more)	B	HITACHI, LG, PANASONIC, SAMSUNG, SONY
2.3.	Video wall	B	DELTA, HITACHI, LG, PANASONIC, SAMSUNG, SONY



SECTION-B

ELECTRICAL

ACCEPTABLE MAKES LIST
SECTION-B

S No.	ITEMS	CATEGORY	MAKE
1. 132 kV & ABOVE EQUIPMENT			
1.1.	132 kV/ 220 kV Gas Insulated Switchgear	A	CG POWER & INDUSTRIAL SOLUTIONS LTD, GE VERNOVA, HITACHI ENERGY INDIA LIMITED, HYOSUNG T&D INDIA PRIVATE LIMITED, SIEMENS, TOSHIBA TRANSMISSION & DISTRIBUTION SYSTEMS (INDIA) PVT LTD.
1.2.	132kV/ 220 kV outdoor Isolator/ Disconnecting Switch	A	CG POWER & INDUSTRIAL SOLUTIONS LTD, GR POWER, HITACHI ENERGY INDIA LIMITED, RAYCHEM, SIEMENS, SWITCHGEAR & STRUCTURALS, ELPRO
1.3.	132kV/ 220 kV outdoor Circuit Breaker	A	BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, GE VERNOVA, HITACHI ENERGY INDIA LIMITED, SIEMENS
1.4.	132kV/ 220 kV outdoor CT/ PT/CVT	A	BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, GE VERNOVA, HITACHI ENERGY INDIA LIMITED, MEHRU, SIEMENS, TELK
1.5.	132kV/ 220 kV outdoor Lightning Arrestor	A	BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, ELPRO, OBLUM, RAYCHEM
1.6.	132kV/ 220 kV cable XLPE	A	CCI (Cable Corporation of India), KEC, KEI, STERLITE POWER TRANSMISSION LIMITED (for 132KV), UNIVERSAL
1.7.	132kV/ 220 kV outdoor Insulator & Bushing	B	ADITYA BIRLA INSULATORS, BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, CJI, JAYSHREE INSULATORS, MODERN, OBLUM, WSI, YASH HIGH VOLTAGE LTD.
1.8.	ACSR Conductor for 132kV/ 220 kV Transmission Line	B	APAR, CABCON, STERLITE
2. 33kV EQUIPMENT			
2.1.	33 kV Indoor Switchgear	A	ABB, SCHNEIDER, SIEMENS

ACCEPTABLE MAKES LIST
SECTION-B

S No.	ITEMS	CATEGORY	MAKE
2.2.	33 kV Gas Insulated Switchgear	A	ABB, BHEL, SCHNEIDER, SIEMENS,
2.3.	33kV outdoor Isolator/ Disconnecting Switch	A	ABB POWER PRODUCTS & SYSTEMS INDIA LIMITED, CG POWER & INDUSTRIAL SOLUTIONS LTD, GR POWER, RAYCHEM, SCHNEIDER, SIEMENS, SWITCHGEAR & STRUCTURALS, ELPRO
2.4.	33kV outdoor Circuit Breaker	A	ABB, BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, SCHNEIDER, SIEMENS
2.5.	33kV outdoor CT/ PT	A	BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, ECS, MEHRU, TELK
2.6.	33kV outdoor Lightning Arrestor	A	BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, ELPRO, OBLUM, RAYCHEM
2.7.	33kV outdoor Insulator & Bushing	B	ADITYA BIRLA INSULATORS, BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, CJI, JAYSHREE INSULATORS, MODERN, OBLUM, WSI, YASH HIGH VOLTAGE LTD.
2.8.	ACSR Conductor for 33kV transmission line	B	APAR, CABCON, STERLITE, GUPTA POWER
3. MEDIUM VOLTAGE – INDOOR (3.3 kV to 11kV)			
3.1.	Switchgear (Circuit Breaker with panels)	A	ABB, BHEL, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, SCHNEIDER, SIEMENS
3.2.	Vacuum Contactor	A	ABB, ANDREW YULE, BHEL, JYOTI, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, SCHNEIDER, SIEMENS
3.3.	CT & PT	B	AEL, JYOTI, KALPA, KAPPA, PRAGATI, PRAYOG, ECS, SCHNEIDER
3.4.	Isolator	B	ABB, A BONDSTRAND, MEGAWIN, PANICKER SWITCH GEAR PVT. LTD,
3.5.	HT Bus duct	B	BHEL, C&S, ECC, STARDRIVE BUSDUCTS LTD.

ACCEPTABLE MAKES LIST
SECTION-B

S No.	ITEMS	CATEGORY	MAKE
4. PROTECTION & METERING			
4.1.	Protective Relays	A	ABB, GE VERNOVA, HITACHI ENERGY INDIA LIMITED, SCHNEIDER, SIEMENS
4.2.	SCADA/ SAS System	A	ABB, ECIL, ETAP, GE VERNOVA, HITACHI ENERGY INDIA LIMITED, HONEYWELL, SCHNEIDER ELECTRIC INFRASTRUCTURE LTD, SIEMENS
5. LT SWITCHGEAR			
5.1.	Intelligent motor controller for IMCC	A	ABB, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, ROCKWELL AUTOMATION, SCHNEIDER, SIEMENS
5.2.	Power Control Centre (PCC)	B	ABB, ADARSHA CONTROL & AUTOMATION PVT LTD, AMICHAND TECHNOLOGICAL PRIVATE LIMITED, APEX MARKETING, BCH, ELECTRO ALLIED PRODUCTS, IEE PROJECTS, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, PCE PROJECTS PVT. LTD., SCHNEIDER, SIEMENS, TECHNOCRAFTS ELECTRIC PVT. LTD., TENCO SYSTEMS AND SWITCH GEARS PVT. LTD., TRAANSRECT INDUSTRIES
5.3.	Motor Control Centre (MCC) up to 1000 Amps and PDB	B	ABB, ADARSHA CONTROL & AUTOMATION PVT LTD, AMICHAND TECHNOLOGICAL PRIVATE LIMITED, APEX MARKETING, BCH, C&S, DIVYA ENGINEERS, ELECTRO ALLIED PRODUCTS, HAVELLS, IEE PROJECTS, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, MARINE ELECTRICAL, MEDITRON, PCE PROJECTS PVT. LTD, SCHNEIDER, SEN & SINGH, SIEMENS, SWITCHING CIRCUITS, TRAANSRECT INDUSTRIES
5.4.	Motor Control Centre (MCC) above 1000 Amps	B	ABB, ADARSHA CONTROL & AUTOMATION PVT LTD, AMICHAND TECHNOLOGICAL PRIVATE LIMITED, APEX MARKETING, BCH,

ACCEPTABLE MAKES LIST
SECTION-B

S No.	ITEMS	CATEGORY	MAKE
			C&S, ELECTRO ALLIED PRODUCTS, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, SCHNEIDER, SIEMENS, TRAANSRECT INDUSTRIES
5.5.	Air circuit breaker (ACB)	B	ABB, BCH ELECTRIC LIMITED, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, SCHNEIDER, SIEMENS
5.6.	Moulded case circuit breaker (MCCB) (with positive isolation)	B	ABB, BCH, C&S, HAVELLS, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, SCHNEIDER, SIEMENS, EATON, ANDREW YULE
5.7.	Motor Protection Circuit Breaker (MPCB)	B	ABB, BCH, C&S, EATON, HAVELLS, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, ROCKWELL AUTOMATION, SCHNEIDER, SIEMENS, SPRECHER & SCHUH
5.8.	Power Contactors, Auxiliary contactors/ Auxiliary relays	B	ABB, ANDREW YULE, BCH, C&S, EATON, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, OEN (AUXILIARY/ CONTROL RELAY ONLY), ROCKWELL AUTOMATION-ALLEN BRADLEY, SCHNEIDER, SIEMENS, SPRECHER & SCHUH
5.9.	Control switches	B	ABB, BCH, EPCC, KAYCEE, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, SCHNEIDER, SIEMENS, SALZER
5.10.	Thermal bimetallic Overload relays	B	ABB, ANDREW YULE, BCH, C&S, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, ROCKWELL AUTOMATION, SCHNEIDER, SIEMENS
5.11.	Electronic over current relay/ Electronic motor protection relay (EOCR/ EMPR)	B	ABB, BCH, C&S, EATON, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, ROCKWELL, SCHNEIDER, SIEMENS, SPRECHER & SCHUH
5.12.	LT bus duct	B	C&S, ECC, IEE PROJECTS PVT. LTD.

ACCEPTABLE MAKES LIST
SECTION-B

S No.	ITEMS	CATEGORY	MAKE
			LOTUS POWER, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, SPEARHEAD, STARDRIVE BUSDUCTS LTD.
6. ILLUMINATION			
6.1.	Lighting fixtures	B	BAJAJ, CENTURY LED LIMITED, CROMPTON GREAVES CONSUMER ELECTRICALS LIMITED, EVEREADY, FORUS ELECTRIC PVT. LTD., GE LIGHTING, HALONIX TECHNOLOGIES PVT. LTD, HAVELLS, ORIENT ELECTRIC LIMITED, PYROTECH ELECTRONICS PRIVATE LIMITED, SIGNIFY, SURYA, SYSKA, TRANSRAIL LIGHTING LIMITED, TURNPOINT TECHNOLOGIES PRIVATE LIMITED, WIPRO
6.2.	High Mast Tower	B	BAJAJ, CROMPTON GREAVES CONSUMER ELECTRICALS LIMITED, ENERGYGREEN TECHNOPOWER PVT. LTD., PHILIPS, SURYA ROSHNI LIMITED, TRANSRAIL, VALMONT, CONSOUL, BP PROJECTS, VENTURA
7. TRANSFORMER			
7.1.	Up to 33 kV (Oil Type)	A	BHARAT BIJLEE, BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, INDCOIL TRANSFORMER (UPTO 2 MVA), ESENNAR TRANSFORMER, HITACHI ENERGY INDIA LIMITED, KIRLOSKAR ELECTRIC COMPANY, PROLEC GE, RAYCHEM-RPG, SAI ELECTRICALS (UPTO 1 MVA), SCHNEIDER, SIEMENS, VOLTAMP TRANSFORMERS LTD, ANDREW YULE, TRANSFORMER & RECTIFIER, KOTSONS (UPTO 630kVA only)
7.2.	Above 33 kV (Oil Type)	A	BHARAT BIJLEE, BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, GE VERNOVA, HITACHI ENERGY INDIA LIMITED, TELK, SCHNEIDER, SIEMENS, TBEA ENERGY (INDIA) PRIVATE LIMITED, TOSHIBA TRANSMISSION &

ACCEPTABLE MAKES LIST
SECTION-B

S No.	ITEMS	CATEGORY	MAKE
			DISTRIBUTION SYSTEMS (INDIA) PVT LTD, TRANSFORMER & RECTIFIER, KIRLOSKAR ELECTRIC COMPANY
7.3.	Dry type	A	BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD, INDCOIL TRANSFORMER (UPTO 2 MVA), ESENNAR TRANSFORMER, HITACHI ENERGY INDIA LIMITED, KIRLOSKAR ELECTRIC COMPANY, RPG-RAYCHEM, VOLTAMP TRANSFORMERS LTD, SUDHIR
8.	MV REACTOR	A	CG POWER & INDUSTRIAL SOLUTIONS LTD, GE T&D, PS ELECTRICALS, QUALITY POWER, SHRIHANS ELECTRICALS PVT. LTD., TRANSFORMER & RECTIFIER, SCHNEIDER
9. DRIVES			
9.1.	Variable frequency drive (VFD)<1.1kV	B	ABB, CG POWER & INDUSTRIAL SOLUTIONS LTD. (for motor upto 30 kW), DANFOSS, DELTA ELECTRONICS INDIA PVT LTD, FUJI, GE VERNOVA, HITACHI-HIREL, MITSUBISHI ELECTRIC INDIA PRIVATE LIMITED, NIDEC INDUSTRIAL AUTOMATION INDIA PRIVATE LIMITED (for motor upto 200 kW), ROCKWELL AUTOMATION, SCHNEIDER, SIEMENS, TMEIC, YASKAWA
9.2.	Thyristor Converter/ DC DRIVE	B	ABB, GE VERNOVA, PARKER, ROCKWELL AUTOMATION, SIEMENS, FUJI
9.3.	Soft starter	B	ABB, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, ROCKWELL AUTOMATION, SIEMENS, SCHNEIDER, DANFOSS
9.4.	FCMA /series reactor type soft starter	B	INNOVATIVE TECHNOMICS, JAYASHREE, SHRIHANS ELECTRICALS PVT. LTD., SCHNEIDER, LECON ENERGETICS PVT LTD

ACCEPTABLE MAKES LIST
SECTION-B

S No.	ITEMS	CATEGORY	MAKE
9.5.	MV Drive	B	ABB, HITACHI HI-REL POWER ELECTRONICS PVT. LTD (Except mill stand), INNOMOTICS INDIA PVT LTD, SCHNEIDER, TMEIC INDUSTRIAL SYSTEMS INDIA PRIVATE LIMITED (Except mill stand)
10. MOTORS			
10.1.	Synchronous Motor	A	ABB, BHEL, INNOMOTICS INDIA PVT LTD, GE VERNOVA
10.2.	HT – AC	A	ABB, BHEL, CG POWER & INDUSTRIAL SOLUTIONS LTD., INNOMOTICS INDIA PVT LTD, KIRLOSKAR ELECTRIC COMPANY, WEG, TMEIC, JEUMONT ELECTRIC INDIA PVT LTD
10.3.	LT – AC	B	ABB, BHARAT BIJLEE, CG POWER & INDUSTRIAL SOLUTIONS LTD., HAVELLS INDIA LTD (UPTO 90 KW), HINDUSTAN ELECTRIC MOTORS (For up-to 22 kW), KIRLOSKAR ELECTRIC COMPANY, LHP, INNOMOTICS, WEG, NGEF, BHEL, NORD
10.4.	DC	B	BHEL, IEC, KIRLOSKAR ELECTRIC COMPANY, CG POWER & INDUSTRIAL SOLUTION
11. CABLES			
11.1.	33kV cable XLPE	A	CCI (Cable Corporation of India), CRYSTAL, GEMSCAB INDUSTRIES LTD, GLOSTER, HAVELLS INDIA LIMITED, KEC, KEI, POLYCAB, UNIVERSAL (MP BIRLA GROUP)
11.2.	HT (up to 11kV) cable XLPE	A	CCI, DYNAMIC CABLES LTD., GEMSCAB INDUSTRIES LTD., GLOSTER, HAVELLS, KEC, KEI, POLYCAB, STERLITE POWER, UNIVERSAL (MP BIRLA GROUP)
11.3.	LT power & control cable	B	BMI CABLES (UPTO 70 SQMM), CCI, CORDS CABLE INDUSTRIES LTD., FINOLEX CABLES, GEMSCAB INDUSTRIES LTD., GLOSTER, HAVELLS, INSUCON, KEC, KEI, POLYCAB,

ACCEPTABLE MAKES LIST
SECTION-B

S No.	ITEMS	CATEGORY	MAKE
			RAVIN, SPECIAL CABLE PVT. LTD., SUYOG ELECTRICALS LIMITED, SVARN INFRATEL PVT. LTD. (for control cable only), THERMO CABLES, UNIVERSAL (MP BIRLA GROUP), LAPP, NANGALWALA INDUSTRIES (P) LTD., TEMPESENS INSTRUMENTS INDIA LIMITED (For Control Cable)
12. MISCELLANEOUS			
12.1.	Battery charger	B	AMARA RAJA POWER SYSTEMS LTD, APLAB, CHLORIDE (EXIDE), CHHABI ELECTRICALS, HITACHI HIREL POWER ELECTRONICS PRIVATE LIMITED, LIVELINE ELECTRONICS, NELCO, HBL POWER SYSTEMS LIMITED, VERTIV ENERGY PRIVATE LIMITED
12.2.	Battery Bank	B	AMARA RAJA, AMCO, EXIDE, FURUKAWA, PANASONIC, HBL POWER SYSTEMS LIMITED,
12.3.	Master controller	B	EATON, ELECTROMAG, EPCC, KAYCEE, LAURITZ KNUDSEN ELECTRICAL & AUTOMATION, SIEMENS, KAKKU, SPHONBUCKART, GESMANN, SCHNEIDER
12.4.	Un-interruptible power supply (UPS):	B	EATON POWER QUALITY PVT. LTD., FUJI ELECTRIC CONSUL NEOWATT P LTD, HITACHI-HIREL, NUMERIC, SCHNEIDER (APC), VERTIV ENERGY PRIVATE LIMITED
12.5.	Nitrogen injection fire protection system	B	CTR, EASUN-MR TAP CHANGERS(P) LTD., TECTONICUS, VENDERE
13.	GENERATOR	B	ABB, BHEL, INNOMOTICS INDIA PVT LTD, TOYO DENKI



SECTION-C

MECHANICAL

ACCEPTABLE MAKES LIST
SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
1. GENERAL			
1.1.	Gearbox (50 kW and above)	A	BONFIGLIOLI, ELECON, ESENPRO POWER TRANSMISSION PVT. LTD., SIEMENS-FLENDER, ROSSI, SUMITOMO, HEC, KIRLOSKAR, NAW, PREMIUM TRANSMISSION, SCHMIEDE AND MASCHINEN PVT. LTD., SHANTHI
	Gearbox (below 50 kW)	B	BONFIGLIOLI, ELECON, SIEMENS-FLENDER, ROSSI, SUMITOMO, ESENPRO POWER TRANSMISSION PVT. LTD., HEC, KIRLOSKAR, NAW, SHANTHI, PREMIUM TRANSMISSION, SAN ENGG. & LOCOMOTIVE COMPANY LTD., SUMI- CYCLO DRIVE INDIA PVT. LTD., TRIVENI, SCHMIEDE AND MASCHINEN
1.2.	Geared Motor (5 kW and above)	A	BONFIGLIOLI, CYCLO TRANSMISSIONS, IC INDIA LTD., INNOMOTICS INDIA PVT. LTD., NORD, POWER BUILD, ROSSI, SEW-EURO DRIVE
	Geared Motor (below 5 kW)	B	BONFIGLIOLI, CYCLO TRANSMISSIONS, ESENPRO POWER TRANSMISSION PVT. LTD., IC INDIA LTD., INNOMOTICS INDIA PVT. LTD., MOTOVARIO GEAR SOLUTIONS PVT. LTD., NORD, POWER BUILD, ROSSI, SEW-EURO DRIVE, SHANTHI, SUMI-CYCLO DRIVE INDIA PVT.LTD., TOP GEAR TRANSMISSIONS
1.3.	Geared Coupling (50 kW and above)	A	ELECON, RATHI (LOVEJOY), SIEMENS-FLENDER, TIMKEN, FENNER
	Geared Coupling (below 50 kW)	B	ELECON, RATHI (LOVEJOY), SIEMENS-FLENDER, TIMKEN, CONCORD STEEL WORKS PVT. LTD., ESCO, GBM, NAW, WELLMAN WACOMA, FENNER, SCHMIEDE AND MASCHINEN
1.4.	Pin Bush/ Bibby Coupling (10kW and above)	A	ELECON, GBM, RATHI (LOVEJOY)
	Pin Bush/ Bibby Coupling (below 10kW)	B	ELECON, GBM, RATHI (LOVEJOY), NAW, FENNER

ACCEPTABLE MAKES LIST
SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
1.5.	Barrel Coupling	A	JAURE, MALMEDIE, RINGFEDER POWER TRANSMISSION
1.6.	Fluid Coupling	A	ELECON, FLUIDOMAT, GHATGE-PATIL INDUSTRIES, PREMIUM TRANSMISSION, VOITH
1.7.	Resilient Coupling	A	ELECON, FENNER, RATHI (LOVEJOY), NAW, TIMKEN, WELLMAN WACOMA
1.8.	Transmission Chain & Sprocket	B	DIAMOND, GOLDEN ENGG & ENTERPRISE, RENOLD, ROLCON, ROLKOBO, ROLON
1.9.	DCEM Shoe Brake	A	BCH ELECTRIC LTD, ELEKTROMAG, KAKKU, KATEEL, SIBRE, SPEED-O-CONTROL, EMCO PRECIMA ENGINEERING PVT LTD. (BUBENZER BREMSEN)
1.10.	DCEM Disc Brake	A	BCH ELECTRIC LTD, ELEKTROMAG, KAKKU, KATEEL, PETHE, SIBRE, SPEED-O-CONTROL, EMCO PRECIMA ENGINEERING PVT LTD. (BUBENZER BREMSEN)
1.11.	Hydraulic thruster brake	A	EMCO PRECIMA ENGINEERING PVT LTD. (BUBENZER BREMSEN), KATEEL, SIBRE
1.12.	Non-metallic Liner	B	KAVERI, TEGA, THEJO
1.13.	Wearing Plates (Metallic)	B	NLMK INDIA, SSAB (HARDOX), QUARD & QUEND
1.14.	Lathe & Shaper	B	BATLIBOI, GUJARAT LATHE MANUFACTURING COMPANY PVT. LTD., HEC, HMT
1.15.	Welding Rectifier/transformer	B	ADVANI, ADOR, ESAB, MOGORA COSMIC, MEMCO
1.16.	Bearing	A	KOYO (JTEKT), NTN, SCHAEFFLER, SKF, TIMKEN
1.17.	Slew Bearing	A	LIEBHERR, ROTHE ERDE (THYSSENKRUPP), SKF
1.18.	Split Bearing	A	COOPER, TIMKEN, SKF

ACCEPTABLE MAKES LIST
SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
1.19.	Passenger cum Goods Elevator (544 kg and above)	A	KONE ELEVATOR, OTIS, THYSSENKRUPP, SCHINDLER
	Passenger cum Goods Elevator (below 544 kg)	B	mitsubishi, OTIS, THYSSENKRUPP, SCHINDLER, ECE, KONE ELEVATOR, OMEGA
1.20.	Hook (up to 10 t)	B	FREE TRADING CORPORATION, SMRITI FORGING & ENGG, MACHINE TOOLS, STEEL FORGINGS & ENGINEERING
1.21.	Hook (above 10t)	A	FREE TRADING CORPORATION, SMRITI FORGING & ENGG, STEEL FORGINGS & ENGINEERING
1.22.	Wire Rope	B	BHARAT WIRE ROPES, BOMBAY WIRE ROPE, ORION ROPES, USHA MARTIN
1.23.	Expansion Joint for Hot Blast system (metallic)	A	FLEXATHERM, FLEXICAN, LONE STAR, MB METALLIC BELLOWS
1.24.	Stove Valves (two lever/ three lever/ double eccentric butterfly valve)	A	FOURESS, JOSHI & JAMPALA, L&T
1.25.	Hot Blast Valve	A	FOURESS, JOSHI & JAMPALA
1.26.	Coil Strapping M/c	B	KOHAN KOGYO CO., SIGNODE, SUND BRISTA, TITAN
2. MATERIAL HANDLING EQUIPMENT			
2.1.	Conveyor Belt	B	ARB CONVEYORS LIMITED, CENTURY INDUSTRIAL PRODUCTS, CONTINENTAL CONVEYORS (P) LTD., EUREKA CONVEYOR BELTINGS LTD. (EUREKON), FORECH INDIA LTD, FENNER-DUNLOP, KRISHNA BELTS PVT. LTD., MAHAJAN CONVEYORS, NRC INDUSTRIES LTD., ORIENTAL RUBBER, PHOENIX

ACCEPTABLE MAKES LIST
SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
			CONVEYOR BELT (INDIA) PVT. LTD, SEMPERTRANS INDIA PVT LTD.
2.2.	Idler	B	AMPS ENGG. & EQUIPT. PVT. LTD., BENGAL TOOLS, BEVCON, ELECON, GOLDEN ENGG & ENTREPRISE, GOLDEN ENGINEERING INDUSTRIES, HITECH EQUIPMENTS PVT. LTD., INDIANA CONVEYORS, L & T, MACMET, TEGA MCNALLY MINERALS LIMITED, NEWALL INDUSTRIES, SANRAJ PROJECTS PVT. LTD., SANDVIK ASIA, SOLCON, TECHNO IMPEX, VINAR SYSTEMS, VN INDUSTRIES
2.3.	Pulley	B	AMPS ENGG. & EQUIPT. PVT. LTD., BENGAL TOOLS, BEVCON, ELECON, GOLDEN ENGG & ENTREPRISE, GOLDEN ENGINEERING INDUSTRIES, HITECH EQUIPMENTS PVT. LTD., INDIANA CONVEYORS, L & T, MACMET, TEGA MCNALLY MINERALS LIMITED, NEWALL INDUSTRIES, SANRAJ PROJECTS PVT. LTD., SANDVIK ASIA, SOLCON, TECHNO IMPEX, VINAR SYSTEMS, VN INDUSTRIES
2.4.	Belt Weigher / Weigh feeder System	A	ACME, FLSMIDTH, <i>NEWTON WEIGHING SYSTEM PVT. LTD.</i> , PFISTER, PRECIA MOLEN, QLAR, SIEMENS (MILTRONICS)
2.5.	Plummer Block (100mm shaft dia at bearing and above)	A	MASTA, SCHAEFFLER, SKF, TIMKEN
	Plummer Block (below 100mm shaft dia at bearing)	B	MASTA, NANDY ENGINEERING CONCERN, SCHAEFFLER, SKF, TIMKEN
2.6.	Belt Scraper (belt width 1000mm and above)	B	HOSCH, KAVERI, THEJO

ACCEPTABLE MAKES LIST
SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
	Belt Scraper (belt width below 1000mm)	B	HOSCH, KAVERI, INDIANA CONVEYORS, THEJO
2.7.	Vibrating Screen (100tph and above)	A	IC INDIA LTD., METSO, QLAR, SANDVIK, FLSMIDTH, TEGA MCNALLY MINERALS LIMITED
	Vibrating Screen (below 100tph)	B	ELECTRO ZAVOD, ELEKTROMAG-JOEST VIBRATION PVT. LTD., IC INDIA LTD., HEWITTROBINS INTERNATIONAL PVT. LTD., TEGA MCNALLY MINERALS LIMITED, METSO, QLAR, SANDVIK, FLSMIDTH
2.8.	Vibrating Feeder	A	ELECTRO ZAVOD, ELEKTROMAG-JOEST VIBRATION PVT. LTD, IC INDIA LTD., TEGA MCNALLY MINERALS LIMITED, METSO, QLAR, SANDVIK, FLSMIDTH,
2.9.	Apron Feeder (500tph and above)	A	L & T, THYSSEN KRUPP, SANDVIK, METSO
	Apron Feeder (below 500tph)	B	ELECON, HAZEMAG, L & T, TEGA MCNALLY MINERALS LIMITED, TENGL, THYSSEN KRUPP, SANDVIK, METSO
2.10.	Screw Conveyor	B	GMV ENGG, MASYC, VINAR SYSTEMS
2.11.	Electromechanical Actuator	B	AUMA, LIMITORQUE, ROTORK
2.12.	EOT Crane (all capacities)	A	ANUPAM INDUSTRIES, HEC, JINDAL STEEL & POWER, MUKAND, TATA GROWTH SHOP, UNIQUE INDUSTRIAL HANDLERS
	EOT Crane (maximum 50 t)	A	CENTURY CRANE, MELTECH CRANES PVT. LTD., FAFECO, SMACO, ALPHA, MECHTROTTECH PROJECTS PVT. LTD.

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SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
	EOT Crane (maximum 10 t)	B	EDDY CRANE, TUOBRO FURGUSON, ELECTROTHERAPY, KEPRO TECHNOLOGIES PVT. LTD., REVA INDUSTRIES INDIA PVT. LTD., SHIVPRA
2.13.	Electric Hoist	B	BRADY & MORRIS, CENTURY CRANE, EDDY CRANE, ELECTROTHERAPY, FORGINGS INDIA, GRIP ENGRS., HERCULES HOIST LTD. (INDEF), HI-TECH INDUSTRIES, KEPRO TECHNOLOGIES PVT. LTD., MELTECH CRANES PVT. LTD., REVA INDUSTRIES INDIA PVT. LTD., SHIVPRA
2.14.	Electric Winch	B	EDDY CRANE, MHS PVT. LTD. ENGG, ELECTROTHERAPY, FORGINGS INDIA, HMTC ENGG. CO., KEPRO TECHNOLOGIES PVT. LTD, PULLMAN
2.15.	Jib Crane	A	BRADY & MORRIS, CENTURY CRANES, GRIP ENGG, MELTECH CRANES PVT. LTD., EDDY CRANE, KEPRO TECHNOLOGIES PVT. LTD.
2.16.	Chain Pulley Block & Hand Operated Travelling Crane	B	BRADY& MORRIS, CENTURY CRANES, FORGINGS INDIA, HERCULES HOIST LTD. (INDEF), HI-TECH., LIGHT LIFT IND., REVA INDUSTRIES INDIA PVT. LTD., TRACTEL TIRFOR
2.17.	Underslung Cranes	B	EDDY CRANE, CENTURY CRANES, FAFECO, MUKAND, KONE CRANES & DEMAG, REVA INDUSTRIES INDIA PVT. LTD., ALPHA, BRADY & MORRIS, SHIVPRA, TUOBRO FURGUSON
2.18.	Shock Absorbers /Hydraulic Buffer	A	ENIDINE, OLEO, ACE CONTROLS
2.19.	Electro Magnet	A	EAST COAST ENTERPRISERS, ELEKTROMAG, SGM, SUPERLIFT
2.20.	Tongs	B	ARMATIC ENGG., BUCK, HEPPENSTALL, SOMERS, YELLOW STONE INDIA
2.21.	Stacker or Reclaimer	A	ELECON, FLSMIDTH, HEC, L & T, TEGA MCNALLY MINERALS LIMITED, METSO, SANDVIK ASIA, TENOVA TAKRAF, THYSSENKRUPP

ACCEPTABLE MAKES LIST
SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
2.22.	Stacker-cum-Reclaimer	A	FLSMIDTH, HEC, L & T, TEGA MCNALLY MINERALS LIMITED, METSO, SANDVIK ASIA, TENOVA TAKRAF, THYSSENKRUPP
2.23.	Bucket-Wheel Reclaimer	A	FLSMIDTH, HEC, L & T, TEGA MCNALLY MINERALS LIMITED, METSO, TENOVA TAKRAF, THYSSENKRUPP, SANDVIK ASIA
2.24.	Wagon Tippler	A	ELECON, FLSMIDTH, HEC, L & T, TEGA MCNALLY MINERALS LIMITED, METSO, THYSSENKRUPP
2.25.	Hanging Magnet/ Cross belt/ Inline Magnetic Separator	A	ELECTRO ZAVOD, ELEKTROMAG, HUMBOLDT WEDAG, TEGA MCNALLY MINERALS LIMITED, METSO
2.26.	Fork Lift	B	GODREJ, TIL, VOLTAS
2.27.	Crusher (Cone / Gyratory / Jaw)	A	FLSMIDTH, HEC, L&T, TEGA MCNALLY MINERALS LIMITED, METSO, SANDVIK, THYSSENKRUPP, URALMASH
2.28.	Impact / Hammer Crusher	A	HEC, L&T, TEGA MCNALLY MINERALS LIMITED, METSO, SANDVIK, TERRASOURCE, THYSSENKRUPP
2.29.	Roll Crusher	A	ELECON, FLSMIDTH, HEC, L&T, TEGA MCNALLY MINERALS LIMITED, SANDVIK, THYSSENKRUPP, URALMASH
2.30.	Rotary Breaker	A	L&T, TEGA MCNALLY MINERALS LIMITED, TERRASOURCE, THYSSENKRUPP
2.31.	Industrial/ Cabin/Crane e- room AC (except those used in coke oven machines & ladle handling cranes)	A	ADVANCE COOLING SYSTEMS PVT. LTD, DOCON AIRCONDITIONING PVT. LTD., FRIGORTEC, KABU, LINTERN

ACCEPTABLE MAKES LIST
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SNo.	ITEMS	CATEGORY	MAKE
2.32.	Industrial/ Cabin/ Crane e-room AC	A	ADVANCE COOLING SYSTEMS PVT. LTD., FRIGORTEC, KABU, LINTERN
3. HYDRAULICS SYSTEM			
3.1.	Hydraulic Cylinder	A	APEX FLUIDOMATICS PVT. LTD., CANARA HYDRAULICS, DANVER, DANFOSS (EATON), HYDRO PNEUMATIC CONTROLS, JAMI HYDRAULICS PVT. LTD., OSCAR, PARKER, REXROTH, VEKTRA ENGG., VELJAN, WIPRO, YUKEN
3.2.	Hydraulic System with Accessories	A	DANFOSS (EATON), HYDAC, PARKER, REXROTH, YUKEN
3.3.	Hydraulic Valves	A	CANARA HYDRAULICS, DANFOSS (EATON), HYDAC, MOOG, PARKER, REXROTH, YUKEN
3.4.	Accumulator	A	BOSCH, DANFOSS (EATON), EPE, HYDAC, PARKER, REXROTH, YUKEN
3.5.	Hydraulic Fitting & Clamp	B	EPE, FLUID CONTROL HYDROCRIMP, HYDAC, HYD-AIR, HYDROMATIK, HYTECH, PTS, STAUFF
3.6.	Hydraulic Filter	B	EATON (INTERNORMEN), HENGST FILTRATION PVT. LTD., HYDAC, PARKER
3.7.	Hydraulic Motor	A	DANFOSS POWER SOLUTIONS, DANFOSS (EATON), MAHA HYDRAULICS, PARKER, REXROTH, YUKEN
3.8.	Hydraulic Pump	A	DANFOSS POWER SOLUTIONS, DANFOSS (EATON), MAHA HYDRAULICS, PARKER, REXROTH, YUKEN
3.9.	Hose	B	AEROFLEX, DANFOSS (EATON), HYDROKRIMP, HYDROLINES, INDIA FLEX INDUSTRIES, PARKER, PSI HYDRAULICS, SONI RUBBER PRODUCTS LTD., SUPERSEAL

ACCEPTABLE MAKES LIST
SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
4. PNEUMATIC SYSTEM			
4.1.	Pneumatic Cylinder	B	CANARA HYDRAULICS, DUNCAN ENGINEERING LIMITED, EL-O-MATIC (INDIA) PVT. LTD., FESTO INDIA PVT. LTD., HYD-AIR, HYDRO PNEUMATIC CONTROLS, I.L. PALAKKAD, NUCON, SMC, VELJAN, WIPRO
5. LUBRICATION SYSTEM			
5.1.	Oil Lubrication System for Rolling Mills, Sinter Plant, Blast Furnace, Bulk material equip	A	HYDAC, SKF ENGINEERING AND LUBRICATION INDIA PRIVATE LIMITED, LUBRICATION SYSTEMS LTD, BIJUR DELIMON, REBS LUBRICATION
5.2.	Oil Lubrication System other than above (Cl. 5.1)	B	HYDAC, SKF ENGINEERING AND LUBRICATION INDIA PRIVATE LIMITED, LUBRICATION SYSTEMS LTD, PRAKASH LUBRIQUIPMENT, SHAAN LUBE, BIJUR DELIMON, REBS LUBRICATION
5.3.	Screw Pump	B	ALLWEILER PUMPS PVT. LTD., ROTO, UT PUMPS & SYSTEM
5.4.	Gear Pump	B	ALFA, ALLWEILER PUMPS PVT. LTD., PARKER, REXROTH, ROTO, ROTODEL
5.5.	Filter Strainer	B	MULTITEX FILTRATION, OTOKLIN, SPAN ASSOCIATES PUNE, SUPERFLO FILTERS
5.6.	Oil Mist / Oil-Air Lubrication System	A	BIJUR DELIMON, SKF ENGINEERING AND LUBRICATION INDIA PRIVATE LIMITED, REBS LUBRICATION
5.7.	Grease Lubrication System for Rolling Mills, Sinter Plant, Blast Furnace, Bulk material Handling Equip	A	AFMC, BIJUR DELIMON, SKF ENGINEERING AND LUBRICATION INDIA PRIVATE LIMITED, REBS LUBRICATION

ACCEPTABLE MAKES LIST
SECTION-C

SNo.	ITEMS	CATEGORY	MAKE
5.8.	Grease Lubrication System other than above (CI 5.7)	B	AFMC, BIJUR DELIMON, CENLUB SYSTEMS, SKF ENGINEERING AND LUBRICATION INDIA PRIVATE LIMITED, PRAKASH LUBRIQUIPMENT, REBS LUBRICATION
5.9.	Hose	B	AEROFLEX, HYDROKRIMP, HYDROLINES, PSI HYDRAULICS, SONI RUBBER PRODUCTS LTD., SUPERSEAL



SECTION-D

**MINING & MINERAL
PROCESSING AREA**

**ACCEPTABLE MAKES LIST
SECTION-D**

SNo.	ITEMS	CATEGORY	MAKE
1.	Sizer	A	FLSMIDTH, MMD, SANDVIK, THYSSENKRUPP
2.	Ball / Rod / Ag Mill	A	CEMTEC, CHANDERPUR WORKS PVT. LTD., FLSMIDTH, HEC, L&T, TEGA MCNALLY MINERALS LIMITED, METSO, OUTOTEC, SANDVIK, THYSSENKRUPP, URALMASH
3.	Classifier	A	DORR OLIVER, DURGA METALS, EIMCO-KCP, FLSMIDTH, METSO, MBE-CMT
4.	Thickener	A	EIMCO-KCP, FLSMIDTH, TEGA MCNALLY MINERALS LIMITED, METSO, OUTOTEC, TENOVA-DELKOR
5.	Jig	A	ALLMINERAL, MBE-CMT, TENOVA-DELKOR
6.	Filter (Vacuum /Pressure)	A	ANDRITZ, EIMCO-KCP, FLSMIDTH, METSO, OUTOTEC, TENOVA-DELKOR, TH COMPANY
7.	Wet High Intensity Magnetic Separator / High Gradient Magnetic Separator	A	ALLMINERAL, ERIEZ, MBE-CMT, METSO, LONGI MAGNET, MINERAL TECHNOLOGIES, OUTOTEC
8.	Low Intensity Magnetic Separator	A	ERIEZ, LONGI MAGNET, MBE-CMT, METSO, MINERAL TECHNOLOGIES, MULTOTEC
9.	Dewatering Screen	A	DERRICK, FLSMIDTH –LUDOWICI, IC, METSO, TEGA MCNALLY MINERALS LIMITED, SCHENCK PROCESS, WEIR MINERALS
10.	Spiral – Gravity Concentrator	A	AKW A+V GMBH, FLSMIDTH, MINERAL TECHNOLOGIES, MULTOTEC, OUTOTEC
11.	Hydrocyclones	A	CDE, FLSMIDTH KERBS, TEGA MCNALLY MINERALS LIMITED, METSO, MOZLEY, MULTOTEC, WEIR MINERALS
12.	Metal Detector	A	ELECTRO ZAVOD, ELEKTROMAG, ERIEZ, MBE-CMT, METSO



SECTION-E

**PROCESS CONTROL &
AUTOMATION**

**ACCEPTABLE MAKES LIST
SECTION-E**

S No.	ITEMS	CATEGORY	MAKE
1. FIELD INSTRUMENTATION			
1.1.	Pressure/differential pressure/Level/Flow Transmitter	A	ABB, EMERSON, E&H, FUJI, HONEYWELL, YOKOGAWA, SIEMENS
1.2.	Temperature Transmitter	A	ABB, E&H, EMERSON, HONEYWELL, SIEMENS, YOKOGAWA
1.3.	Pressure / DP switch	A	ASHCROFT, BAUMER, DANFOSS, INDFOS, WIKA, SWITZER,
1.4.	Tuning Fork/ Rod type Level Switch	A	ABB, E&H, EMERSON, NIVO CONTROL, SAPCON, SIEMENS, VEGA
1.5.	Conductivity/RF/Capacitance type Level Switch	A	E&H, EIP ENVIRO LEVEL CONTROLS PVT LTD., NIVO CONTROL, P&F, SAPCON, VEGA,
1.6.	Float type Level Switch	A	BAUMER, EMERSON, ENDRESS & HOUSER, KROHNE MARSHALL, LEVCON, NIVO CONTROL, SAPCON, TRAC
1.7.	Ultrasonic Level Sensor	A	E&H, EIP ENVIRO, EMERSON, KROHNE MARSHALL, P&F, SIEMENS, SICK, TOSHNIWAL INDUSTRIES PVT LTD, VEGA
1.8.	Radar Type Level Sensor	A	E&H, EIP ENVIRO, EMERSON, KROHNE, MARSHALL, SIEMENS, VEGA
1.9.	Electro Magnetic Flow Meter	A	E&H, EMERSON, KROHNE MARSHALL, ROCKWIN, YOKOGAWA, SIEMENS
1.10.	Flow Elements (Orifice / Venturi / Flow nozzle / Pitot tube / Annubar)	A	ENGG SPECIALTIES, EMERSON, MECHANICAL ENGINEERS, UNI CONTROL, WIKA

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S No.	ITEMS	CATEGORY	MAKE
1.11.	Radiation Pyrometer (online/portable)	A	CHINO, EUROTHERM, FLUKE, LAND, TOSHNIWAL INDUSTRIES PVT LTD, WILLIAMSON CORPORATION,
1.12.	Level SW/ Transmitter (Nucleonic type)	B	BERTHOLD, E&H, THERMOFISHER
1.13.	Temperature Switch	B	E&H, IFM, HYDAC, WIKA
1.14.	Flow Switch	B	EMERSON, IFM, KROHNE MARSHAL, KOBOLD
1.15.	Vortex Flow Meter	A	E&H, EMERSON, KROHNE MARSHAL, SIEMENS, YOKOGAWA
1.16.	Mass (Coriolis) Flow	A	ABB, E&H, EMERSON, KROHNE MARSHAL, LEOMI INSTRUMENTS (Thermal), SIEMENS, YOKOGAWA,
1.17.	Level Switch/Transmitter (Displacer Type)	B	CHEMTROL, DK INSTRUMENTS, EMERSON, LEVCON
2. CONTROL VALVES			
2.1.	Globe Valve	A	DEMBLA VALVES LTD., FISHER, FORBES MARSHALL, IL PALAKKAD, KOSO, R.K. CONTROL INSTRUMENTS, SAMSON, SEVERN, UNIFLOW CONTROLS
2.2.	Butterfly Valve	A	AIRA, DEL VAL, DEMBLA VALVES LTD., FESTO INDIA PVT. LTD., FISHER, FOURESS, IL PALAKKAD, KOSO, SEVERN, VALMET FLOW CONTROL PVT LTD
2.3.	Pneumatic Actuator	A	DEL VAL, FORBES MARSHALL, FESTO INDIA PVT LTD, IL PALAKKAD,

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SECTION-E**

S No.	ITEMS	CATEGORY	MAKE
			KOSO, OM CONTROL, ROTEX, SAMSON, UNIFLOW CONTROLS
2.4.	Electrical Motor Actuator	A	AUMA, BERNARD, LIMITORQUE, ROTORK,
2.5.	Electro Pneumatic Positioner	A	ABB, EMERSON, FORBES MARSHALL, FESTO INDIA PVT LTD, SIEMENS, VALMET FLOW CONTROL PVT LTD.
3. CONTROL SYSTEM EQUIPMENT			
3.1.	Signal Isolator	A	MASIBUS, MICROSYSTEMS & CONTROLS, MTL, P&F, PHOENIX, STAHL, YOKOGAWA
3.2.	Distributed Control System	A	ABB, BHEL, EMERSON, HONEYWELL, SCHNEIDER, SIEMENS, ROCKWELL, TOSHIBA, YOKOGAWA,
3.3.	PLC System	A	ABB, ECIL, HITACHI, HONEYWELL, EMERSON AUTOMATION (FORMERLY "GE INTELLIGENT"), ROCKWELL, SCHNEIDER, SIEMENS
3.4.	Technological Control System/ Multi-Tasking Control System/ Embedded Control System	A	ABB, DANIELI, EMERSON AUTOMATION (FORMERLY "GE INTELLIGENT"), SIEMENS, SMS, TMEIC
3.5.	PDA	A	DANIELI, IBA, LMS, MICA, SOMAT
3.6.	Panel / Enclosure / Rack	B	APW PRESIDENT, DIVYA ENGINEERS, HOFFMANN, PYROTECH, RITTAL, VALRACK
3.7.	Surge Protection	A	DEHN, MTL, P&F, PHOENIX CONTACT, OBO BETTERMANN

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SECTION-E**

S No.	ITEMS	CATEGORY	MAKE
4. PANEL BASED INSTRUMENTATION			
4.1.	Single Loop Stand Alone Controller	A	ABB, FUJI, HONEYWELL, SIEMENS, TOSHIBA, YOKOGAWA
4.2.	Paperless Recorder	A	CHINO, EUROTHERM, FUJI, HONEYWELL, LAXONS, YOKOGAWA,
4.3.	Alarm Annunciator	B	IIC, IL, MINILEC, PROCON, SEMUDA
4.4.	Regulated DC Power Supply Unit / SMPS	A	APLAB, COSEL, PHOENIX CONTACT, SIEMENS, WAGO, WEIDMULLER ELECTRONICS INDIA PVT LIMITED
5. ANALYSERS			
5.1.	Gas Analyser	A	ABB CHEMTROL (AMETEK), EMERSON, FUJI, FORBES MARSHALL, HONEYWELL, PANAMETRICS, SICK, SIEMENS, YOKOGAWA
5.2.	Gas Detector	A	BEILER & LANG, DETRONICS, DRAGGER, INDUSTRIAL SC. CORPN MSA, TELEDYNE
5.3.	Flame Detector	A	DURAG, ENDEE, HONEYWELL, SICK, YAMATAKE
5.4.	Moisture Analyzer (Nucleonic)	A	CHINO, BERTHOLD, EMERSON, THERMO FISHER
5.5.	Moisture Analyzer (Microwave/ Capacitance Type)	A	ABB, CHEMTROL, MOISTECH, NDC, SIEMENS
5.6.	Opacity Analyser	A	DURAG, FORBES MARSHALL, MAIHEK, SICK,
5.7.	Calorific Value Analyser	A	CHEMTROL(AMS), REINEKE, UNION CALORIMETER, YOKOGAWA, IGCA

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SECTION-E**

S No.	ITEMS	CATEGORY	MAKE
5.8.	pH / Conductivity / ORP Analyser	A	ABB, E&H, EMERSON, FORBES MARSHAL, HONEYWELL, NEVCO ENGINEERS PVT LTD., YOKOGAWA
5.9.	SOX / NOX/ CO Analyser	A	ABB, AIC (FUJI), EMERSON, FUJI, FORBES MARSHAL, HONEYWELL, SICK, SIEMENS, YOKOGAWA
5.10.	Elemental Analyser	A	JICO, MAYA, PANALYTICAL, REAL TIME, SCANTECH, THERMO SCIENTIFIC
6. WEIGHING			
6.1.	Electronic Weighing System (Hopper Weighing / Platform / Scales / In-motion W.B.)	A	ABB, ACME, AVERY KELK, BEST, MINEBEA INTEC (FORMERLY SARTORIOUS), PRECIA MOLEN, RICE LAKE, SCHENK, TRANSWEIGH
6.2.	Load Cells & Accessories	A	ABB, FLINTEK, HBM, MINEBEA INTEC (FORMERLY SARTORIOUS), PRECIA MOLEN, PRECISION, RICELAKE, SCHENCK, SIEMENS, KELK
7. SPECIAL INSTRUMENTS			
7.1.	Thickness Gauge	A	IMS, IRM, MESACON, TOSHIBA, THERMO SCIENTIFIC,
7.2.	Hot Metal Detector	A	AMERICAN SENSORS, DANIELI, DELTA, SICK, TOSHIBA, HOKUYO AUTOMATIC CO. LTD.
7.3.	Width Gauge	A	ABB, DELTA, DANIELI, IMS, PSYSTEME, THERMO SCIENTIFIC, TOSHIBA
7.4.	Vibration Monitoring System	B	BHEL, GE OIL & GAS, IRD MECHANALYSIS, SCHENCK, SHINKAWA

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SECTION-E**

S No.	ITEMS	CATEGORY	MAKE
7.5.	Portable Vibration Monitor with analysis software	B	BENTLEY NEVADA, EMERSON PROCESS MANAGEMENT INDIA PVT LTD., FORBES MARSHAL, IRO
7.6.	Test & Measuring Equipment	B	APLAB, FLUKE, KANE, SCIENTIFIC, TECHNOFIX
7.7.	Laboratory Equipment	B	BEAMEX, FLUKE, SCANDURA, WIKA
7.8.	Digital Multi-Function Meter	B	ACORD, CONSERVE, L&T, RISHAV, SECURE
7.9.	Strip Profile Gauge	A	IMS, MESACON, NDC (IRM), THERMO SCIENTIFIC, TOSHIBA
7.10.	Flatness/ Shape Gauge	A	ABB, DELTA, IMS, P-SYSTEME, SIEMENS, THERMO SCIENTIFIC
7.11.	Laser Doppler Velocity Meter	A	ACCUSPEED, AMERICAN SENSORS, DELTA, KELK, LASER SPEED
7.12.	Optical Barrier	A	ABB, AMERICAN SENSORS, DELTA, PAULI, SICK,
7.13.	Position Transducer	A	LEONARD BAUR, NSD, SONY MAGNESCALE, TEMPOSONIC, DELTA
7.14.	Optical Encoder	A	HUBNER, KUEBLER AUTOMATION INDIA PVT. LTD., LINE & LINDEY, STEGMANN
7.15.	Surface Inspection System	A	ABB, COGNEX, PARSYTEC, SIEMENS, SURCON
8. COMMUNICATION EQUIPMENT			
8.1.	Wireless Communication Equipment	A	CISCO, EXTREME, GE, JUNIPER, LOTUS WIRELESS, MOTOROLA, MOXA, RADIUS, SATELLINE, SHEETAL WIRELESS, STAHL, PHOENIX CONTACT

**ACCEPTABLE MAKES LIST
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S No.	ITEMS	CATEGORY	MAKE
8.2.	EPABX	A	ALCATEL, AVAYA, ERICSON, ITI, SIEMENS
8.3.	PA System/ Conferencing system	B	AHUJA, BOSCH, HONEYWELL, PHI AUDIO COM
9. DISPLAY & FDA SYSTEM			
9.1.	Alpha Numeric Display/ Jumbo Display	B	AGLA, BLE BELL, GE, LECTROTEK, MICROTECH, PYROTECH ELECTRONICS, VINAY
9.2.	Large Screen Display	B	HITACHI, LG, PANASONIC, SAMSUNG, SONY
9.3.	Video Walls (LED)	B	DELTA, HITACHI, LG, PANASONIC, SAMSUNG, SONY
9.4.	Fire Detection and Alarm (FDA) System	A	BOSCH, HONEYWELL (ESSER), HONEYWELL (NOTIFIER), KEDWARD TECHNOLOGIES INDIA PVT LTD. (EDWARDS), SCHRACK SECONET, SECURITON, SIEMENS, TYCO
10. INSTRUMENTATION CABLES			
10.1.	Instrumentation/ Screened/ Co-axial/ Special Cables	A	CCI, CORDS, DELTON, FINOLEX, LAPP, MEM, NICCO, SPECIAL CABLES, SUN, THERMOCABLES, TOSHNIWAL, UNIVERSAL
10.2.	Telephone Cable	B	BELDON, DELTON, ELKAY TELELINKS, FINOLEX, NICCO, TELE LINK, UNIVERSAL
10.3.	Load Cell Cable	A	FLINTEC, HBM, PRECIA MOLEN, RICELAKE, SARTORIOUS, SCHENK, SIEMENS
10.4.	T/C Extension cable, Compensating cable, PTFE cable	A	BELDEN, LAPP, MEM, TEMCON, TEMPESENS, THERMOCABLE, TOSHNIWAL CABLES



SECTION-F

REFRACTORY

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SECTION-F

S No.	ITEMS	CATEGORY	MAKE
1.	Fireclay Refractories (Alumina Up to 44 %)	B	ARUN REFRACTORIES, ARVIND INDUSTRIES, ASSOCIATED CERAMICS LTD., BRAHMA REFRACTORIES PVT. LTD., BURNPUR CERAMICS, BURNPUR INDUSTRIES, , CHAMPION CERAMICS PVT. LTD., CROWN CERAMICS, INDUSTRIAL ASSOCIATES, KHEMKA REFRACTORIES PVT. LTD., MAHAKOSHAL REFRACTORIES PVT. LTD., MAITHAN CERAMIC LTD., MANISHRI REFRACTORIES & CERAMICS PVT. LTD., PREMIER REFRACTORIES PVT. LTD., RAJHANS REFRACTORIES PVT. LTD., RHI MAGNESITA INDIA REFRACTORY LIMITED, SAIL REFRACTORY UNIT, SB STEEL REFRACTORIES PVT. LTD., SHREEKANT INDUSTRIES, SKG REFRACTORIES LTD, TRL KROSAKI REFRACTORIES LTD., VALLEY REFRACTORIES PVT. LTD.
2.	High Alumina Refractories (Alumina Above 44 %)	B	ARVIND INDUSTRIES, ASSOCIATED CERAMICS LTD., BRAHMA REFRACTORIES PVT. LTD., BURNPUR INDUSTRIES, CHAMPION CERAMICS PVT. LTD., CROWN CERAMICS, INDUSTRIAL ASSOCIATES, KHEMKA REFRACTORIES PVT. LTD. MAHAKOSHAL REFRACTORIES PVT. LTD., MAITHAN CERAMIC LTD., MANISHRI REFRACTORIES & CERAMICS PVT. LTD., PREMIER REFRACTORIES PVT. LTD., RAJHANS REFRACTORIES PVT. LTD., RANCHI REFRACTORIES (INDIA) PVT. LTD., RHI MAGNESITA INDIA REFRACTORY LIMITED, SAIL REFRACTORY UNIT, SAINT-GOBAIN PERFORMANCE CERAMICS & REFRACTORIES, SB STEEL REFRACTORIES PVT. LTD., SHREEKANT INDUSTRIES, SKG

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SECTION-F

S No.	ITEMS	CATEGORY	MAKE
			REFRACTORIES LTD, TRL KROSAKI REFRATORIES LTD.
3.	Silica Refractories	B	TRL KROSAKI REFRATORIES LTD., RHI MAGNESITA INDIA REFRATORY LIMITED
4.	Insulation Refractories	B	ACHINT CHEMICALS, ASSOCIATED CERAMICS LTD., CALDERYS INDIA REFRATORIES LTD., CARBORUNDUM UNIVERSAL LTD., MAITHAN CERAMICS LTD., MATESHWARI INSULATIONS, MURUGAPPA MORGAN THERMAL CERAMICS LTD., NAVRANG REFRATORIES PVT. LTD., NEWKEM PRODUCTS CORPOPRTATION, NUTECH REFRATORIES PVT. LTD., PREMIER REFRATORIES PVT. LTD., RAJASTHAN CERAMICS INDUSTRIES, RELIABLE REFRATORIES PVT. LTD., SHREE CERAMICS FIBERS PVT. LTD., SHREEKANT INDUSTRIES, SKG REFRATORIES LTD, VALLEY REFRATORIES PVT. LTD.
5.	Basic Refractories (Magnesite/ Mag Chrome/ Chrome Mag/ Magnesia- Carbon/ Alumina Magnesia Carbon)	B	CHAMPION CERAMICS PVT. LTD., CHAMPION REFTECH PVT. LTD., MAITHAN CERAMIC LTD., MANISHRI REFRATORIES & CERAMICS PVT. LTD., RANCHI REFRATORIES (INDIA) PVT. LTD., RHI MAGNESITA INDIA LTD., SAIL REFRATORY COMPANY LTD., SAIL REFRATORY UNIT, SARVESH REFRATORIES PVT. LTD., SKG REFRATORIES LTD, TRL KROSAKI REFRATORIES LTD., VESUVIUS INDIA LTD.
6.	Purging Refractories (Porous Plug/ Purging Plug)	B	CHAMPION CERAMICS PVT. LTD., IFGL REFRATORIES LTD., MANISHRI REFRATORIES & CERAMICS PVT. LTD., RHI MAGNESITA INDIA LTD, SAIL REFRATORY UNIT, SARVESH

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S No.	ITEMS	CATEGORY	MAKE
			REFRACTORIES PVT. LTD., TRL KROSAKI REFRACTORIES LTD., VESUVIUS INDIA LTD.
7.	Pouring Refractories (Well block/ Inner Nozzle/ Outer Nozzle/ Slide gate)	B	CHAMPION CERAMICS PVT. LTD., IFGL REFRACTORIES LTD., MANISHRI REFRACTORIES & CERAMICS PVT. LTD., RANCHI REFRACTORIES (INDIA) PVT. LTD., RHI MAGNESITA INDIA LTD., SAIL REFRACTORY UNIT, SARVESH REFRACTORIES PVT. LTD., TRL KROSAKI REFRACTORIES LTD., VESUVIUS INDIA LTD.
8.	Black Refractories (Shroud/ Mono block Stopper/ Tundish Nozzle/ SEN/ Single Taphole Sleeve)	B	IFGL REFRACTORIES LTD., RHI MAGNESITA INDIA LTD., SARVESH REFRACTORIES PVT. LTD., TRL KROSAKI REFRACTORIES LTD., VESUVIUS INDIA LTD.
9.	Silicon Carbide Refractories	B	CARBORUNDUM UNIVERSAL LTD., SAINT- GOBAIN PERFORMANCE CERAMICS & REFRACTORIES
10.	Alumina-Silicon Carbide- Carbon (ASC) Refractories	B	ARVIND INDUSTRIES, CHAMPION CERAMICS PVT. LTD., CHAMPION REFRATECH PVT. LTD., MANISHRI REFRACTORIES & CERAMICS PVT. LTD., RAASI REFRACTORIES LTD., RHI MAGNESITA INDIA LTD., SAIL REFRACTORY UNIT, SKG REFRACTORIES LTD, TRL KROSAKI REFRACTORIES LTD., VESUVIUS INDIA LTD.
11.	Acid Resistant Refractories	B	CHAMPION CERAMICS PVT. LTD., MAHAKOSHAL REFRACTORIES PVT. LTD., MANISHRI REFRACTORIES & CERAMICS PVT. LTD., RAJHANS REFRACTORIES PVT. LTD., BURNPUR CERAMICS, ORIENT REFRACTORIES

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S No.	ITEMS	CATEGORY	MAKE
12.	Torpedo Ladle Set	B	MAITHAN CERAMICS LTD., MANISHRI REFRATORIES & CERAMICS PVT.LTD., RHI MAGNESITA INDIA LTD, SARVESH REFRATORIES PVT. LTD., SKG REFRATORIES LTD., TRL KROSAKI REFRATORIES LTD.
13.	RH Degasser Set	B	AARYA METALLURGICAL INDIA PVT LTD., RHI MAGNESITA INDIA LTD., TRL KROSAKI REFRATORIES LTD.
14.	Blast Furnace Cast House Runner Set	B	CALDERYS INDIA REFRATORIES LTD., TRL KROSAKI REFRATORIES LTD., VESUVIUS INDIA LTD.



SECTION-G

UTILITIES & SERVICES

ACCEPTABLE MAKES LIST
SECTION-G

SNo.	ITEMS	CATEGORY	MAKE
1. PUMPS			
1.1.	Centrifugal Pumps (Horizontal Split Casing / Horizontal Back Pullout / Vertical axial, Volute & Mixed flow Types – All ranges)	A	BHEL, CRI PUMPS, FLOWMORE, FLOW SERVE, KIRLOSKAR (KBL), KSB, SAM, SULZER, WILO-MATHER & PLATT, WPIL, JYOTI PUMPS, VARAT PUMP & MACHINERY PVT. LTD.
1.2.	Centrifugal Pumps (Horizontal Split Casing / Horizontal Back Pullout / Vertical axial, Volute & Mixed flow Types – Less than 100 m ³ /h)	A	BEST & CROMPTON, CALAMA, CRI PUMPS, SAM, SINTECH PRECISION PRODUCTS LTD., SJ INDUSTRIES, SPX FLOW (JOHNSON)
1.2a	Centrifugal Pumps (Horizontal Split Casing) – For Blast Furnace Application	A	KIRLOSKAR (KBL), KSB, WILO-MATHER & PLATT, WPIL
1.3.	Boiler Feed Pumps / Condensate Extraction Pump	A	BHEL, KIRLOSKAR EBARA PUMPS LIMITED (For boiler capacity upto 50 tph), KSB, SULZER
1.4.	Submersible pump	B	CALAMA, CRI, DARLING, FLOWMORE, GOODWIN PUMPS (for handling slurry), KISHOR PUMPS, KSB, LUBI, SAM, SU MOTORS, SULZER, VARAT, WPIL, XYLEM, KBL, WILO-MATHER & PLATT
1.5.	Horizontal Centrifugal Pumps for Slurry Handling	A	BEST & CROMPTON, CRI, FL SMIDTH (DORR OLIVER), FLOWMORE, FLOW SERVE, GOODWIN PUMPS, METSO, SAM, WEIR MINERALS
1.6.	Reciprocating Slurry Pump	A	FL SMIDTH (DORR OLIVER), ROTO, WEIR MINERALS
1.7.	Vertical Centrifugal Pumps for Slurry Handling	A	METSO, SAM, WEIR MINERALS

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SECTION-G

SNo.	ITEMS	CATEGORY	MAKE
2. VALVES & GATES			
2.1.FLUIDS (EXCEPT STEAM & OXYGEN) SERVICE			
General Services-Make-up water system, Cleaning & Washing, Service air system, Purging system			
2.1.1.	Gate Valves (Cast Steel) General Services	B	BDK VALVE PRIVATE LIMITED, BHEL, DEMBLA VALVES LTD, FLUIDTECH EQUIPMENT Pvt. Ltd., FOURESS, GM ENGG., INTERVALVE, IVC, JOSHI JAMPALA, KIRLOSKAR, KSB, L&T, LEADER, MASCOT, OSWAL INDUSTRIES, STEELSTRONG, S&M INDUSTRIAL VALVES (KOLKATA), TYCO VALVES, UNIVERSAL ENGG. CONCERN, VALVE TECH IND.
2.1.1a	Globe Valves (Cast Steel) General Services	B	BDK VALVE PRIVATE LIMITED, BHEL, DEMBLA VALVES LTD, FLUIDTECH EQUIPMENT Pvt. Ltd., FOURESS, GM ENGG., INTERVALVE, IVC, JOSHI JAMPALA, KIRLOSKAR, KSB, L&T, LEADER, MASCOT, OSWAL INDUSTRIES, STEELSTRONG, S&M INDUSTRIAL VALVES (KOLKATA), TYCO VALVES, UNIVERSAL ENGG. CONCERN, VALVE TECH IND.
2.1.2.	Gate Valves (Cast Steel) ALL Process	A	BDK VALVE PRIVATE LIMITED, BHEL, DEMBLA VALVES LTD, FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, KSB, L&T, TYCO VALVES, S&M INDUSTRIAL VALVES (KOLKATA), VALVE TECH IND.
2.1.2a	Globe Valves (Cast Steel) ALL Process	A	BDK VALVE PRIVATE LIMITED, BHEL, DEMBLA VALVES LTD, FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, KSB, L&T, TYCO VALVES, S&M INDUSTRIAL VALVES (KOLKATA), VALVE TECH IND.

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SNo.	ITEMS	CATEGORY	MAKE
2.1.3.	Non-return Valves (Cast Steel) General Services	B	ADVANCE VALVES (NOIDA), BDK VALVE PRIVATE LIMITED, BHEL, DEMBLA VALVES LTD, DEZURIK, FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, GM ENGG., INTERVALVE, KIRLOSKAR, KSB, L&T, NUPRO ENGINEERING SYNDICATE PVT. LTD., OSWAL INDUSTRIES, STEELSTRONG, LEADER, S&M INDUSTRIAL VALVES (KOLKATA), UNIVERSAL ENGG. CONCERN, UNIVERSAL ENGG., VALVE TECH IND., Y-CUBE ENGINEERED SOLUTIONS PVT. LTD.
2.1.4.	Non-return Valves (Cast Steel) All Process	A	ADVANCE VALVES (NOIDA), BDK VALVE PRIVATE LIMITED, BHEL, FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, KSB, L&T, VALVE TECH IND.
2.1.5.	Gate Valves (Forged Steel) General Services	B	BDK VALVE PRIVATE LIMITED, BHEL, FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, INTERVALVE, JOSHI JAMPALA, KIRLOSKAR (KBL), KSB, L&T, OSWAL INDUSTRIES, S&M INDUSTRIAL VALVES (KOLKATA), VALVE TECH IND.
2.1.5a	Globe Valves (Forged Steel) General Services	B	BDK VALVE PRIVATE LIMITED, BHEL, FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, INTERVALVE, JOSHI JAMPALA, KIRLOSKAR (KBL), KSB, L&T, OSWAL INDUSTRIES, S&M INDUSTRIAL VALVES (KOLKATA), VALVE TECH IND.
2.1.5b	Non-return Valves (Forged Steel) General Services	B	BDK VALVE PRIVATE LIMITED, BHEL, FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, INTERVALVE, JOSHI JAMPALA, KIRLOSKAR (KBL), KSB, L&T, OSWAL INDUSTRIES, S&M INDUSTRIAL VALVES (KOLKATA), VALVE TECH IND.
2.1.6.	Gate Valves (Forged Steel) All Process	A	BDK VALVE PRIVATE LIMITED, BHEL, FOURESS, KSB, L&T, VALVE TECH IND.
2.1.6a	Globe Valves (Forged Steel) All Process	A	BDK VALVE PRIVATE LIMITED, BHEL, FOURESS, KSB, L&T, VALVE TECH IND.
2.1.6b	Non-return Valves	A	BDK VALVE PRIVATE LIMITED, BHEL, FOURESS, KSB, L&T, VALVE TECH IND.

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SNo.	ITEMS	CATEGORY	MAKE
	(Forged Steel) All Process		
2.1.7.	Gate Valves (SS & Alloy Steel)	A	BDK VALVE PRIVATE LIMITED, BHEL FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, INTERVALVE, KSB, L&T, OSWAL INDUSTRIES, VALVE TECH IND.
2.1.7a	Globe Valves (SS & Alloy Steel)	A	BDK VALVE PRIVATE LIMITED, BHEL FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, INTERVALVE, KSB, L&T, OSWAL INDUSTRIES, VALVE TECH IND.
2.1.8.	Gate Valves (Cast Iron, & SG Iron) General Services	B	BANKIM, CALSEN, CHEMTECH, DURGA VALVES, FLUIDTECH EQUIPMENT Pvt. Ltd, GM DALUI, IVC, JOSHI JAMPALA, KIRLOSKAR, LEADER, S&M INDUSTRIAL VALVES (KOLKATA), SHIVA DURGA, SIGMA FLOW, UNIVERSAL ENGG. CONCERN, UNIVERSAL ENGG., UPADHAYA, VALVE TECH IND., VICTRAM VALVES
2.1.8a	Globe Valves (Cast Iron, & SG Iron) General Services	B	BANKIM, CALSEN, CHEMTECH, DURGA VALVES, FLUIDTECH EQUIPMENT Pvt. Ltd, GM DALUI, IVC, JOSHI JAMPALA, KIRLOSKAR, LEADER, S&M INDUSTRIAL VALVES (KOLKATA), SHIVA DURGA, SIGMA FLOW, UNIVERSAL ENGG. CONCERN, UNIVERSAL ENGG., UPADHAYA, VALVE TECH IND., VICTRAM VALVES
2.1.8b	Non-Return Valves (Cast Iron, & SG Iron) General Services	B	BANKIM, CALSEN, CHEMTECH, DURGA VALVES, FLUIDTECH EQUIPMENT Pvt. Ltd, GM DALUI, IVC, JOSHI JAMPALA, KIRLOSKAR, LEADER, S&M INDUSTRIAL VALVES (KOLKATA), SHIVA DURGA, SIGMA FLOW, UNIVERSAL ENGG. CONCERN, UNIVERSAL ENGG., UPADHAYA, VALVE TECH IND., VICTRAM VALVES
2.1.9.	Gate Valves (Cast Iron, & SG Iron) All Process	A	FLUIDTECH EQUIPMENT Pvt. Ltd, IVC, JOSHI JAMPALA, KIRLOSKAR, S&M INDUSTRIAL VALVES (KOLKATA), SHIVA DURGA, UPADHAYA

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SNo.	ITEMS	CATEGORY	MAKE
2.1.9a	Globe Valves (Cast Iron, & SG Iron) All Process	A	FLUIDTECH EQUIPMENT Pvt. Ltd, IVC, JOSHI JAMPALA, KIRLOSKAR, S&M INDUSTRIAL VALVES (KOLKATA), SHIVA DURGA, UPADHAYA
2.1.9b	Non-Return Valves (Cast Iron, & SG Iron) All Process	A	FLUIDTECH EQUIPMENT Pvt. Ltd, IVC, JOSHI JAMPALA, KIRLOSKAR, S&M INDUSTRIAL VALVES (KOLKATA), SHIVA DURGA, UPADHAYA
2.1.10.	Double Eccentric Butterfly Valves	A	ADVANCE VALVES (NOIDA), BDK VALVE PRIVATE LIMITED, DELVAL FLOW CONTROLS, DEMBLA VALVES LTD, FOURESS, INTERVALVE, JOSHI JAMPALA, L&T, STAFFORD (VIRGO), VALVE TECH IND., KSB, KIRLOSKAR, IL
2.1.11.	Triple Eccentric Butterfly Valves	A	ADVANCE VALVES (NOIDA), ANDERSON GREENWOOD CROSBY SANMAR LIMITED, BDK VALVE PRIVATE LIMITED, DELVAL FLOW CONTROLS, DEMBLA VALVES LTD, EMERSON (VIRGO), FOURESS, INTERVALVE, JOSHI JAMPALA, L&T, VALVE TECH IND.
2.1.12.	Butterfly Valve General Services	B	BDK VALVE PRIVATE LIMITED, BRAY CONTROLS, DELVAL FLOW CONTROLS, DEMBLA VALVES LTD, DEZURIK, DURGA VALVES, CHEMTECH, <i>FESTO INDIA PVT. LTD.</i> , FLUIDTECH EQUIPMENT Pvt. Ltd, FLOW SERVE, FOURESS, <i>HAWA ENGINEERS LTD.</i> , INTERVALVE, JOSHI JAMPALA., KIRLOSKAR, KSB, L&T, MASCOT, METSO, <i>NUPRO ENGINEERING SYNDICATE PVT. LTD.</i> , S&M INDUSTRIAL VALVES (KOLKATA), SIGMA FLOW, STAFFORD CONTROLS, TYCO VALVES, UNIVERSAL ENGG. CONCERN, UNIVERSAL ENGG., VALVE TECH IND., AVCON, LEADER, VICTRAM VALVES
2.1.13.	Butterfly Valve	A	ADVANCE VALVES (NOIDA), BDK VALVE PRIVATE LIMITED, BRAY CONTROLS, DELVAL FLOW CONTROLS, DEMBLA, FLOW

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SNo.	ITEMS	CATEGORY	MAKE
	All Process		SERVE, FOURESS, <i>HAWA ENGINEERS LTD.</i> , INTERVALVE, KSB, L&T, METSO, TYCO VALVES, S&M INDUSTRIAL VALVES (KOLKATA), VALVE TECH IND.
2.1.14.	Fabricated Valves (Gate Valves)	A	FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, JOSHI JAMPALA, L&T, CHEMTECH, VALVE TECH IND.
2.1.15.	Fabricated Valves (Butterfly Valves)	A	FLUIDTECH EQUIPMENT Pvt. Ltd, FOURESS, IL, INTERVALVE, JOSHI JAMPALA, L&T, VALVE TECH IND.
2.1.16.	Goggle Valves	A	FOURESS, JOSHI JAMPALA, ZIMMERMAN & JHONSON-INDIA, CHEMTECH, VALVE TECH IND.
2.1.17.	3 or 4 Way Cock/Plug valve (CI / CS/ FS)	B	FLUIDTECH EQUIPMENT Pvt. Ltd, FLOWSERVE, <i>NUPRO ENGINEERING SYNDICATE PVT. LTD.</i> , UNIVERSAL ENGG. CONCERN, L&T, S&M INDUSTRIAL VALVES (KOLKATA)
2.1.18.	Ball Valve (SS/CS / FS / CI) General Services	B	<i>AIRA EURO AUTOMATION PVT. LTD.</i> , ANDERSON GREENWOOD CROSBY SANMAR LIMITED, AQUA VALVES, DELVAL FLOW CONTROLS, BDK VALVE PRIVATE LIMITED, DEMBLA VALVES LTD, EMERSON (VIRGO), <i>FESTO INDIA PVT. LTD.</i> , FLUIDTECH EQUIPMENT Pvt. Ltd, <i>HAWA ENGINEERS LTD. (UPTO 40 MM)</i> , INTERVALVE, KSB, L&T, MAGWEN VALVES PVT LTD., MASCOT, OSWAL INDUSTRIES, MICROFINISH, NSSL, <i>NUPRO ENGINEERING SYNDICATE PVT. LTD. (DN 50 & BELOW)</i> , VALVE TECH IND., S&M INDUSTRIAL VALVES (KOLKATA)
2.1.19.	Ball Valve (SS/CS / FS / CI) All Process	A	ANDERSON GREENWOOD CROSBY SANMAR LIMITED, BDK VALVE PRIVATE LIMITED, DELVAL FLOW CONTROLS, EMERSON (VIRGO), INTERVALVE, KSB, L&T, MICROFINISH, S&M INDUSTRIAL VALVES (KOLKATA), VALVE TECH IND.

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SNo.	ITEMS	CATEGORY	MAKE
2.1.20.	Float Valve	B	CALSEN, DURGA, IVC, LEADER, LEVCON, SHIVA, UPADHAYA
2.1.21.	Foot Valve	B	BDK VALVE PRIVATE LIMITED, CALSEN, DEZURIK, IVC, KIRLOSKAR (KBL), LEADER, LEVCON, SHIVA DURGA, UPADHAYA
2.1.22.	Diaphragm Valve	A	BDK VALVE PRIVATE LIMITED, CRANE PROCESS, FLUID SYSTEM,
2.1.23.	Air Release Valve	B	BANKIM, CALSEN, FLUIDTECH EQUIPMENT Pvt. Ltd, IVC, LEADER, LEVCON, S&M INDUSTRIAL VALVES (KOLKATA), SHIVA DURGA, SIGMA FLOW, UPADHAYA, VICTRAM VALVES
2.1.24.	Safety Relief Valve	A	ANDERSON GREENWOOD CROSBY SANMAR LIMITED, BDK VALVE PRIVATE LIMITED, BHEL, IL, FORBES MARSHALL, MEKASTER, NIRMAL INDUSTRIAL,
2.1.25.	Needle Valve	A	AIR CHEM, DUNCUN, SCHROEDER, SIEMAG, VALVE TECH IND.
2.1.26.	Knife-edge Gate Valve	A	ANDERSON GREENWOOD CROSBY SANMAR LIMITED, DEZURIK, FLOWLINK SYSTEMS, HABONIM VASS, JASH, JOSHI JAMPALA, METSO, ORBINOX, V-TORK CONTROLS, VALVE TECH IND, WEIR-MINERALS, BRAY CONTROLS
2.1.27.	Pressure Reducing Valve	A	CRESCENT, FLOWTEK, FORBES MARSHALL, IL, MEKASTER, NIRMAL INDUSTRIAL
2.1.28.	Sluice Gate	B	FLUIDTECH EQUIPMENT Pvt. Ltd, JASH, LEVCON, S&M INDUSTRIAL VALVES (KOLKATA), VALVE TECH IND.
2.1.29.	Non-Ferrous Valves (General Purpose)	B	AKSONS, ASCO, BOMBAY METAL, CRESCENT, FLUIDLINE, GM DALUI, LEADER, SANT VALVES, VALVE TECH IND

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SNo.	ITEMS	CATEGORY	MAKE
2.1.30.	Dampers – (in Flue duct)	B	DTL, FANTEK, FLEXATHERM EXPANLOW PRIVATE LIMITED, FOURESS, INTERVALVE, JOSHI JAMPALA, STAFFORD, VALVE TECH INDUSTRIES
2.2.STEAM SERVICE			
2.2.1.	Gate Valves (Cast Steel & Forged Steel)	A	BDK VALVE PRIVATE LIMITED, BHEL, FLUIDTECH EQUIPMENT Pvt. Ltd., FOURESS, INTERVALVE, KSB, L & T, OSWAL INDUSTRIES, PRUSS(HS), VALVE TECH IND.
2.2.1a	Globe Valves (Cast Steel & Forged Steel)	A	BDK VALVE PRIVATE LIMITED, BHEL, FLUIDTECH EQUIPMENT Pvt. Ltd., FOURESS, INTERVALVE, KSB, L & T, OSWAL INDUSTRIES, PRUSS(HS), VALVE TECH IND.
2.2.2.	Non-return Valves (Cast Steel & Forged Steel)	A	BDK VALVE PRIVATE LIMITED, BHEL, DEZURIK, FOURESS, INTERVALVE, KSB, L&T,
2.2.3.	Gate Valves (SS & Alloy Steel)	A	BHEL, FOURESS, KSB, L & T, OSWAL INDUSTRIES, VALVE TECH IND.
2.2.3a	Globe Valves (SS & Alloy Steel)	A	BHEL, FOURESS, KSB, L & T, OSWAL INDUSTRIES, VALVE TECH IND.
2.2.3b	Non-return Valves (SS & Alloy Steel)	A	BHEL, FOURESS, KSB, L & T, OSWAL INDUSTRIES, VALVE TECH IND.
2.2.4.	Ball valves (Cast Carbon Steel and alloy Steel)	A	BHEL, KSB, L & T, METROPOLITAN INDUSTRIES (DN 50 & BELOW), OSWAL INDUSTRIES, THERMAX

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SNo.	ITEMS	CATEGORY	MAKE
3. HEAT EXCHANGERS			
3.1.	Heat Exchanger (Plate Type)	A	ALFA LAVAL, APV, HRS, IDMC, SWEP, TRANTER, KELVION INDIA, VARALKA ENGINEERS PVT. LTD.
3.2.	Heat Exchanger (Shell & Tube Types)	B	AIR CARE EQUIPMENTS, ALFA LAVAL, APV, BHEL, EASTERN EQUIP ENG (EEE), EUREKA ENGG., GODREJ, HRS HEAT EXCHANGERS, L&T, PRECISION COOLING, RELIANCE, TEMA INDIA, TEXMACO, THERMAL SYSTEMS, THERMAX
4.	Cooling towers	A	ENEXIO POWER COOLING SOLUTION INDIA PVT LTD., GAMMON, KOOLAQUA TOWERS PRIVATE LIMITED, PAHARPUR, PALTECH, SHRIRAM TOWER, WET BULB
5. FILTERS / STRAINERS			
5.1.	Filters /Strainers	A	AMIAD, FILTRATION ENGINEERS, HYDAC FILTERS, OTOKLIN, SUPERFLO, SUREFLO TECHNOMAX ENTERPRISES (I) Pvt Ltd (MUMBAI), YAHA WATER SYSTEMS
5.2.	Pressure Filters/ Pressure Sand Filters	A	DOSHI ION-VEOLIA, DRIPLEX, ING- TECH ENGG. CO., EFFWA, EUREKA ENGG. RESIN INDIA, FILTRATION ENGINEERS, ION EXCHANGE, McLANAHAN, OTOKLIN, TECHNOMAX ENTERPRISES (I) Pvt Ltd (MUMBAI), THERMAX, VA TECH, VOLTAS, YAHA WATER SYSTEMS
5.3.	Activated Carbon Filter	A	ARUDRA, ION EXCHANGE, OTOKLIN, RESIN INDIA, SUREFLO, THERMAX, VOLTAS, YAHA WATER SYSTEMS
5.4.	Iron Removal Filter	A	ION EXCHANGE, SPARKLE, THERMAX, VOLTAS, ZEOLITE INDIA (P) LTD

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SNo.	ITEMS	CATEGORY	MAKE
5.5.	Y-Strainer	B	CADILLAC, DRAYTON-GREAVES, FILTRATION ENGINEERS, FORBES MARSHALL, OTOKLIN, SUPERFLO, UNIKLINGER
5.6.	Cyclone Separator	B	FILTRATION ENGINEERS INDIA PVT. LTD., LAKOS, SUPERFLO, TIMEX (AMIAD)
6. EXPANSION JOINTS/COMPENSATORS (Utility & Services)			
6.1.	Expansion Joints / Compensators (Metallic)	A	ATHULYA, DWREN, FLEXICAN, LONE STAR, METALLIC BELLOWS, SUR INDUSTRIES
6.2.	Expansion Joints/Compensators (Rubber)	B	CORI ENGG., DWREN, GBM, KELD ELLENTOFT INDIA, STANDARD PRECISION BELLOWS, SUR INDUSTRIES
7.	CENTRIFUGAL GAS BOOSTER (BF/CO/BOF/MIXED FUEL GAS)	A	AEROTO BOLDROCCHI, ANDREW YULE, BHEL, HOWDEN, TLT
8.	INSULATION MATERIAL AND WORK	B	BAKELITE HYLAM, FINLAY INSULATIONS, LLOYD INSULATIONS, UP TWIGA (SAINT-GOBAIN)
9.	PRESSURE VESSELS / BUFFER VESSELS	A	BHEL, L&T, NTPC-ALSTOM, PRESSURE VESSEL INDIA (P) LTD., TEXMACO, TITAN ENGINEERING
10.	GAS HOLDER (DRY SEAL TYPE)	A	MB Engg (CLAYTON WALKER GROUP -UK), LAZARUS & ASSOCIATES
	GAS HOLDER (WET SEAL TYPE)	A	MB Engg (CLAYTON WALKER GROUP -UK), LAZARUS & ASSOCIATES

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SNo.	ITEMS	CATEGORY	MAKE
11. PIPES			
11.1.	Steel Pipes	B	INDIAN SEAMLESS (ISMT), JSW, JINDAL SAW, JCO GAS PIPE LTD, LALBABA SEAMLESS TUBES, MAHARASHTRA SEAMLESS, SAIL, TATA TUBES, UTKARSH, RATNADEEP METAL & TUBES LTD.
11.2.	Stainless Steel Pipes	B	DIVINE TUBES, JINDAL SAW, MAHARASHTRA SEAMLESS, MEC TUBES, SURAJ LTD., QUALITY STAINLESS, STANDARD (INDIA), STERLING, VENUS PIPES AND TUBES, ZENITH, RATNADEEP METAL & TUBES LTD
11.3.	DI Pipes	B	ELECTRO STEEL CASTINGS., JINDAL SAW, TATA METALIKS DI PIPE LTD.
12. WATER TREATMENT AND DM WATER PLANT			
12.1.	DM, Soft Water Plant, RO PLANT	A	VEOLIA, DRIPLEX, EFFWA, EUREKA FORBES, GE POWER & WATER, GEA ENERGY SYSTEMS, ION EXCHANGE, ISGEC (Except RO Plant), RESIN INDIA, SPARKLE, THERMAX, TRIVENI ENGG., VOLTAS
12.2.	Clarifier	B	EIMCO-KCP, EUREKA FORBES, JORD ENGINEERS, TECHNOMAX ENTERPRISES (I) PVT LTD (MUMBAI), TEGA MCNALLY MINERALS LIMITED, TRIVENI ENGG. WATER SYSTEMS INDIA PVT. LTD., YAHA WATER SYSTEMS
12.3.	Thickener	-	As per makes of Thickener mentioned in MINING & MINERAL PROCESSING AREA
12.4.	Chemical Dosing	B	CHEMBOND, GE POWER & WATER, NALCO, SJ INDUSTRIES, TELLABS CHEMICALS, TRIVENI ENGG
12.5.	Filter Press	A	ANDRITZ, DINSHAW, FILTER MACHINE, FL SMIDTH, PANAMA, SUREFLO

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SNo.	ITEMS	CATEGORY	MAKE
13. EQUIPMENT & SYSTEM FOR AIR AND GAS			
13.1.	Turbo Blower	A	BHEL (For Centrifugal), Howden CKD Compressors (For Centrifugal), KAWASAKI, Mitsui E&S Machinery Co., MAN Energy Solutions, SIEMENS
13.2.	Compressor (Centrifugal)	A	ATLAS COPCO, FS-ELLIOTT, INGERSOLL RAND, KAZANCOMPRESSORMASH, KIRLOSKAR, KOBELCO, SIEMENS
13.3.	Compressors (Screw)	A	ATLAS COPCO, ELGI, INGERSOLL RAND, KAESER, KIRLOSKAR PNEUMATIC
13.4.	Compressors (Reciprocating)	A	BURCKHARDT COMPRESSION, ELGI, INGERSOLL RAND, KIRLOSKAR PNEUMATIC
13.5.	Portable Air Compressors	B	ATLAS COPCO, ELGI, INGERSOLL RAND, KIRLOSKAR
13.6.	Centrifugal Blowers & Fans – For all applications except fuel gas		
	Capacity < 80,000 m3/h	A	AEROTO BOLDROCCHI, ANDREW YULE, BATLIBOI, BHEL, C. B. DOCTOR, FANTEK, HOWDEN, MAXFLOW, REITZ, TLT ENGG.
	Capacity > 80,000 m3/h	A	AEROTO BOLDROCCHI, ANDREW YULE, BHEL, HOWDEN, MAXFLOW, TLT ENGG
13.7.	Air Dryer	B	ATLAS COPCO, DELAIR, EXAL, INGERSOLL RAND, ROOS TEMPKOOL, SANPAR, SHALKOOT MECHANIQUE PVT. LTD., TRIDENT
13.8.	Air Trap	B	DRAYTON GREAVES, FORBES MARSHALL, UNI KLINGER
13.9.	Moisture Separator	B	DRYTECH ENGINEERS, FESTO CONTROL, NUCON, SCHRADER, SMC, THERMAX, UNIKLINGER, VELJAN

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SNo.	ITEMS	CATEGORY	MAKE
14. POWER PLANT EQUIPMENT			
14.1.	Boilers (Stoker, Pulverised, AFBC, CFBC)	A	BHEL, GE, ISGEC, THERMAX, THYSENKRUPP
	Gas Fired Boiler	A	BHEL, GE, ISGEC, THERMAX
	Waste Heat Boilers	A	BHEL, ISGEC, THERMAL SYSTEMS HYDERABAD PVT. LTD., THERMAX
14.2.	Steam Turbines (For turbo-blower)	A	BHEL, MAN Energy Solutions, SIEMENS
14.3.	Steam Turbines (For power generation)	A	BHEL, MAN Energy Solutions, SIEMENS, SKODA, TRIVENI TURBINE
14.4.	Auxiliary Steam Turbines (Range less than 1000 kW)	A	KEPL, FORBES, TRIVENI TURBINE
14.5.	Gas Turbines	A	ALFA LAVAL, ALSTOM, BHEL, GE, MITSUBISHI, SIEMENS
14.6.	Top Pressure recovery Turbine	A	KAWASAKI, Mitsui E&S Machinery Co., MAN Energy Solutions
14.7.	Condenser (Water)	A	ALSTHOM, BHEL, MAZDA, SIEMENS, UNIVERSAL HEAT EXCHANGER
14.8.	De-aerator	A	BHEL, ION EXCHANGE, ISGEC, THERMAX
14.9.	PRDU	A	BHEL, CHEMTROL, FORBES MARSHALL, THERMAX, KOSO FLUID CONTROL, EMERSON PROCESS MANAGEMENT
14.10.	HP / LP Dosing	A	ASIA LMI, ENPRO, META CHEM, VK PUMPS
14.11.	Soot Blowers	A	BERGMAN, BHEL, SISTON
14.12.	HP Heater & LP Heater	A	BHEL, ISGEC, SIEMENS, THERMAX
14.13.	Steam Traps	B	DRAYTON, FORBES MARSHALL, GREAVES, THERMAX, UNIKLINGER, ESCO, UNISON VALVES, PENANT ENGG

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SNo.	ITEMS	CATEGORY	MAKE
15. POLLUTION CONTROL EQUIPMENT			
15.1.	ESP		-----
	Capacity < 5,00,000 m3/h	A	ANDREW YULE, ANDRITZ TECHNOLOGIES PRIVATE LIMITED, BATLIBOI ENVIRONMENTAL ENGG, BHEL, ELEX, FL SMIDTH, GEA PROCESSING, HARMONY ENVIRONMENTAL SYSTEMS (HES), K. C COTTRELL INDIA, RIECO INDUSTRIES, SOIL & ENVIRO INDUSTRIES, THERMAX INDIA
	Capacity > 5,00,000 m3/h	A	ANDRITZ TECHNOLOGIES PRIVATE LIMITED, BHEL, ELEX, FL SMIDTH, GEA PROCESSING, K. C COTTRELL INDIA, SOIL & ENVIRO INDUSTRIES, THERMAX
15.2.	BAG FILTERS		-----
	Capacity < 2,50,000 m3/h	A	ANDREW YULE, APC SYSTEMS, BATLIBOI ENVIRONMENTAL ENGG., BEVCON WAYORS, CK AIRTECH, CLAIR ENGINEERS, F. HARLEY, GLOBAL ENVIRO SYSTEM, RIECO INDUSTRIES, SOIL & ENVIRO INDUSTRIES, THERMAX
	Capacity > 2,50,000 m3/h	A	ANDREW YULE, BATLIBOI ENVIRONMENTAL ENGG., BOLDROCCHI, RIECO INDUSTRIES, THERMAX
15.3.	DUST SUPPRESSION SYSTEM	B	CHEMTROL SAMIL, DUST SOLUTION SYSTEM, F. HARLEY, KAVERI ULTRAPOLYMERS, SPRAYING SYSTEMS, TPS INFRASTRUCTURE
15.4.	CYCLONES AND MULTI CYCLONES	B	AEROTO BOLDROCCHI, AIR TECHNICO, ANDREW YULE, BATLIBOI ENVIRONMENTAL ENGINEERING, F. HARLEY, RAJDEEP ENGG, RIECO INDUSTRIES, THERMAX

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SNo.	ITEMS	CATEGORY	MAKE
16. AIRCONDITIONING, REFRIGERATION & VENTILATION			
16.1.	Window/Tower/Split AC/ Ductable Split AC	B	BLUE STAR, CARRIER, DAIKIN, FEDDERS LLYOD, HITACHI, MITSUBISHI, SAMSUNG, VOLTAS, ZAMIL
16.2.	Packaged Chillers	A	BLUE STAR, CARRIER, DAIKIN, DUNHUM BUSH HITACHI, TRANE, VOLTAS, YORK
16.3.	Package AC	B	ACCEL, BLUE STAR, DAIKIN, VOLTAS
16.4.	Precision Air-conditioning	A	CLIMAVENETA, EMERSON, STULZ- CHSPL(INDIA)
16.5.	Cooling Tower (ACVS)	B	ADVANCE COOLING TOWERS, ARMEC, DBR, HIMGIRI, PAHARPUR, STRONGLITE COMPOSITES(MIHIR), SOUTHERN COOLING TOWERS, VOLTAS, WET BULB
16.6.	Air Handling Unit	B	DAIKIN, EDGETECH, ETA, ROOTS COOLING, VOLTAS, ZECO AIRCON
16.7.	Centrifugal Fan (for ACVS applications)	B	AEROVENT, ANDREW YULE, C. B. DOCTOR, EFE, FANTEK, FLOWLINK, HUMIDIN, MAXFLOW, MESINA, REITZ, SH ENGG
16.7a	Tube Axial Fan	B	ABLE AIR-O TECH, AEROVENT, ANDREW YULE, EFE, FLOWLINK, HUMIDIN, KHAITAN, KRUGER, MAXFLOW, MESINA, SH ENGG.
16.8.	Panel Filter For Air	B	ABB, BHARAT, C. DOCTOR, CADILLAC, EFE, FLOW LINK, FMI,
16.9.	Air Washer	B	EFE, HUMIDIN, MARCO, MESINA, ROOTS COOLING, SYMPHONY, SAKET ENGINEERING ASSOCIATES
16.10.	Propeller Fan	B	ABB, AEROVENT, DUVENT, INDVENT FANS, SH ENGG.

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SNo.	ITEMS	CATEGORY	MAKE
16.11.	Roof Extractors	B	ALMONARD, ANDREW YULE, C. B. DOCTOR, EFE, FLOWLINK, HUMIDIN, KRUGER,
16.12.	Vapor Absorption Machine	A	BLUE STAR, CARRIER, KIRLOSKAR, THERMAX, VOLTAS
17. OXYGEN & CRYOGENIC SERVICE			
17.1.	Cryogenic Pump	A	CRYOPUMP, CRYOSTAR, ICL
17.2.	Oxygen Filter / Y-Strainer	A	BEE, BLUESTAR, CARBERN, CLASSIC, FILTRATION ENGINEERS INDIA PVT. LTD., NOVINTEC, ORSEAL, VEE
17.3.	Non-Ferrous Control Valves	A	BLACKHALL, FISHER, LEEDS, METSO, SAMSON, SEVERN GLOCON
17.4.	Non-Ferrous Self-regulating Valves	A	BALEY BRIKETT, BROADY, FISHER, SAMSON, SEVERN GLOCON, TYCO
17.5.	Non-Ferrous Valves (Gate) < DN50	B	CRESCENT, FLUIDLINE, LEADER, MICROFINISH
17.5a	Non-Ferrous Valves (Globe) < DN50	B	CRESCENT, FLUIDLINE, LEADER, MICROFINISH
17.5b	Non-Ferrous Valves (Ball) < DN50	B	CRESCENT, FLUIDLINE, LEADER, MICROFINISH
17.6.	Non-Ferrous Valves (Gate) > DN50	A	BESTOBELL, BROOKSBANK, FISHER, HEROSE, LEEDS, METSO, SAMSON, SEVERN GLOCON
17.6a	Non-Ferrous Valves (Globe) > DN50	A	BESTOBELL, BROOKSBANK, FISHER, HEROSE, LEEDS, METSO, SAMSON, SEVERN GLOCON
17.6b	Non-Ferrous Valves (Ball) > DN50	A	BESTOBELL, BROOKSBANK, FISHER, HEROSE, LEEDS, METSO, SAMSON, SEVERN GLOCON
17.7.	Safety Relief Valve	A	ARCA, BAILEY BRIKETT, BROADY, CROSSBY, DARLING MUESEO, FARRIS, IL, JN MARSHALL (FORBES MARSHALL),

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SNo.	ITEMS	CATEGORY	MAKE
			KEYSTONE, KUNKLE, SEBIM, SEMPELL, TYCO
17.8.	Vaporizers	A	CRYOQUIP, ICL, INOX, IWI CRYOGENICS, SHELL & TUBE
18. FIRE FIGHTING EQUIPMENT			
18.1.	Portable Fire Extinguishers	B	DEFLAME, FIRE SHIELD, FIREX, GUNNEBO, INTIME FIRE, KANEX FIRE SOLUTIONS LIMITED, MINIMAX, NITIN, SAFEX, SUPREMEX, ZENITH
18.2.	Fire hydrant	B	ASCO, GUNNEBO, MINIMAX, NEWAGE, NITIN, ZENITH
19.	REHEATING FURNACE (Pusher/Rotary)	A	ANDRITZ, ENCON, FIVESTEIN, HYPERTHERM, TECHNO THERM, TENOVA, WESMAN
20. MISCELLANEOUS ITEMS			
20.1.	Surge Tanks	B	ANUP ENGG., PERFECT ENGG., SAKTHI HITECH, ZENITH ERECTORS
20.2.	Oil Skimmer	B	JVM ENGG., POTENTIAL ENGG, PREMIER OIL SKIMMER
20.3.	Traveling Water Screen	B	MACMET, McGALE, OTOKLIN, SWAMINA INT., TRIVENI
20.4.	Electrical Heat Tracer	B	NICROPAD, THERMON, THERMOPAD

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