

Project Engineering
Management

Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)



Ref No. : PE/PG/KG1/E-4822/2015

Date: 06.08.2015

CORRIGENDA / ADDENDA-5

Tender Enquiry no.: PE/PG/KG1/E-4822/2015

Date: 12.05.2015

DUE DATE
12-AUG-2015
10:00 AM

Subject: Revision of Financial PQR and Amendment in Technical Specification for "MILL REJECT SYSTEM (PNEUMATIC TYPE)" of "1x800 MW TSGENCO KOTHAGUDAM TPP".

Our Ref: i) Tender Enquiry no.: PE/PG/KG1/E-4822/2015 Date: 02.05.2015
ii) Corrigenda/Addenda-1 Dtd. 10.06.2015
iii) Corrigenda/Addenda-2 Dtd. 26.06.2015
iv) Corrigenda/Addenda-3 Dtd. 07.07.2015
v) Corrigenda/Addenda-4 Dtd. 22.07.2015

1. Financial PQR for subject package has been revised & revised Financial PQR has been uploaded on BHEL websites (www.bhel.com & www.bhelpem.com). Bidders to submit the documents in line with revised Financial PQR.
2. There is Amendment in Technical Specification. Amendment Details are enclosed herewith. Revised Price Formats accordingly have been uploaded on BHEL websites (www.bhel.com & www.bhelpem.com). All Bidders to note that Prices shall be quoted in Revised Price Format.

All other terms and conditions shall remain unchanged.

With Regards,
For & on behalf of BHEL



Naina Singh

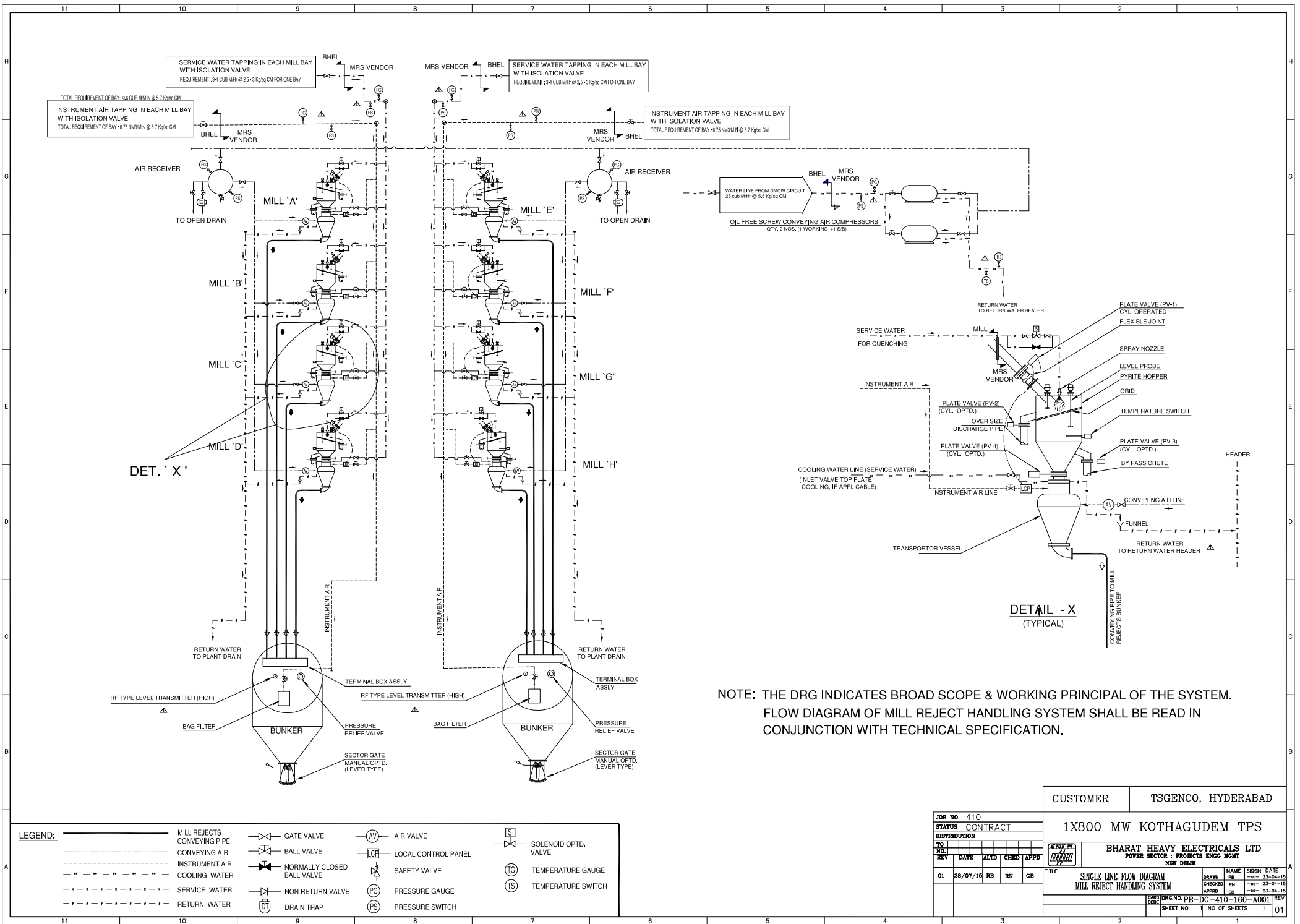
Dy. Manager/PG-II-2

Please reply to:

Naina Singh/ PG-II-2

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BHEL-PEM, Noida-201301 (U.P.)
Tel No. 0120-4368762

1X800 MW TSGENCO KOTHAGUDAM TPS					
	AMENDMENT NO.1				DATE: 06-08-15
	OF TECHNICAL SPECIFICATION (PE-TS-410-160-A001)				REV. NO. 00
FOR MILL REJECT HANDLING SYSTEM					
SL. NO.	VOL. NO.	SECTION/DESCRIPTION	CLAUSE NO.	EXISTING CLAUSE / DETAILS	TO BE READ AS
1	II-B	SECTION-C, SPECIFIC TECHNICAL REQUIREMENTS	1.1 SCOPE OF SUPPLY	a) Stack up assembly of pyrite hopper and conveying vessel below each mill shall comprise of following items. * 1 no. of Temperature Switch per pyrite hopper.	a) Stack up assembly of pyrite hopper and conveying vessel below each mill shall comprise of following items. * 1 no. of RTD per pyrite hopper.
2	II-B	SECTION-C, SPECIFIC TECHNICAL REQUIREMENTS	EQUIPMENT DESIGN / SELECTION CRITERIA (ANNEXURE-II)	03) Pyrite Hopper & Accessories f) Min. instruments required 2) One (1) no. of temperature switch	03) Pyrite Hopper & Accessories f) Min. instruments required 2) One (1) no. of RTD
3	II-B	SECTION-C, SPECIFIC TECHNICAL REQUIREMENTS	1.1 SCOPE OF SUPPLY	c) 1 no. mill reject bunker per bay along with..... bag filter, level probe(RF type level probe)	c) 1 no. mill reject bunker per bay along with..... Bag filter with one (1) no. differential pressure switch across each bag filter, RF type bunker level transmitter
4	II-B	SECTION-C, SPECIFIC TECHNICAL REQUIREMENTS	1.1 SCOPE OF SUPPLY	g) 1 lot of piping, fittings, valves & instruments for conveying air, instrument air, cooling water for transporter vessel inlet valve top plate (if applicable), cooling water quenching in the pyrite hopper, cooling water for air compressor etc.	g) 1 lot of piping, fittings, valves & instruments for conveying air, instrument air, cooling water for transporter vessel inlet valve top plate (if applicable), cooling water quenching in the pyrite hopper, cooling water for air compressor etc. One no. of pressure switch and pressure gauge at instrument air and service water tapping point of each unit.
5	II-B	SECTION-C, SPECIFIC TECHNICAL REQUIREMENTS	1.1 SCOPE OF SUPPLY	d) 2 nos. Oil free rotary screw type skid-mounted air compressor with drive motor, local control panel, instruments and all other accessories.	d) 2 nos. Oil free rotary screw type skid-mounted air compressor with drive motor, local control panel, instruments and all other accessories. One (1) no. Temperature Switch and one (1) no. Temperature Gauge shall be provided at return water header of Compressors.
6	II-B	ANNEXURE-III		SUB-VENDOR LIST WITH INSPECTION CATEGORY	The sub-vendor list attached in Technical Specification is withdrawn. Revised sub-vendor list is attached.
7	II-B	PAINTING SPECIFICATION			Final / Finish / Top coat of paint on all the equipment / item covered under the package shall be done after erection and commissioning of the package.
8	II-B	ANNEXURE IX		INPUT DRAWINGS 1) FLOW DIAGRAM – MILL REJECT HANDLING SYSTEM	Changes in P&ID * Other than the changes mentioned above in Flow Diagram of MRS, the return water line of service water used for quenching of rejects and cooling of top plate of inlet valve shall be connected to return water header instead of open drain.
9	II-B	Section- C TECHNICAL SPECIFICATION (C&I PORTION)	1.05.00 (Grounding) 2.02.00 (Control desk) 2.03.00 (Back-up panel) 2.04.01 - 2.04.06 (Panel/Cabinets)	Following clauses under the head "LCP and Junction Box Specification" from the specification are deleted: 1) 1.05.00 (Grounding) 2) 2.02.00 (Control desk) 3) 2.03.00 (Back-up panel) 4) 2.04.01 - 2.04.06 (Panel/Cabinets)	
Note:	Corresponding changes have been made in the attached Price Format and Flow Diagram of MRS Revised sub-vendor list is attached				



NOTE: THE DRG INDICATES BROAD SCOPE & WORKING PRINCIPAL OF THE SYSTEM. FLOW DIAGRAM OF MILL REJECT HANDLING SYSTEM SHALL BE READ IN CONJUNCTION WITH TECHNICAL SPECIFICATION.

LEGEND:-

—	MILL REJECTS CONVEYING PIPE	— —	GATE VALVE	(AV)	AIR VALVE	(S)	SOLENOID OPTD. VALVE
---	CONVEYING AIR	— —	BALL VALVE	(LCP)	LOCAL CONTROL PANEL	(TG)	TEMPERATURE GAUGE
----	INSTRUMENT AIR	— — —	NORMALLY CLOSED BALL VALVE	(SV)	SAFETY VALVE	(TS)	TEMPERATURE SWITCH
-----	COOLING WATER	— — — —	NON RETURN VALVE	(PG)	PRESSURE GAUGE		
- - - - -	SERVICE WATER	(DT)	DRAIN TRAP	(PS)	PRESSURE SWITCH		
- . - . -	RETURN WATER						

CUSTOMER TSGENCO, HYDERABAD

1X800 MW KOTHAGUEDEM TPS

BHARAT HEAVY ELECTRICALS LTD
POWER SECTOR PROJECTS ENGG MGMT
NEW DELHI

SINGLE LINE FLOW DIAGRAM
MILL REJECT HANDLING SYSTEM

DRG NO. PR-DG-410-160-A001
SHEET NO 1 NO OF SHEETS 1

JOB NO. 410		STATUS CONTRACT	
DISTRIBUTION			
TO	NO.	DATE	BY
01	28/07/15	RB	RN
		GB	

NAME	SRGN	DATE
DRAM	RB	15-04-15
CHECKED	RN	23-04-15
APPRD	GB	23-04-15

REV 01

ANNEXURE-III

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
I	SELF MFG ITEMS			
1.	PYRITE HOPPER	SUPPLIERS/SUB-VENDORS	VENDORS MFR. WORKS	IN CASE BID HAS BEEN SUBMITTED ON COLLABORATION ROUTE, ITEMS IDENTIFIED UNDER SELF-MANUFACTURED ITEMS SHALL BE SOURCED FROM COLLABORATOR/ PRINCIPAL/ APPROVED AND PROVEN SOURCES OF PRINCIPAL
2.	DENSEVEYOR	SUPPLIERS/SUB-VENDORS		
3.	BUNKER DISCHARGE GATE (SECTOR GATE)	SUPPLIERS/SUB-VENDORS		
4.	TERMINAL BOX	SUPPLIERS/SUB-VENDORS		
5.	PRESSURE RELIEF VALVE	SUPPLIERS/SUB-VENDORS		
6.	PNEUMATIC PANEL	SUPPLIERS/SUB-VENDORS		
7.	PYRITE HOPPER	SUPPLIERS/SUB-VENDORS		
II	BOUGHT OUT ITEMS			
A	MECHANICAL			
1.	BAG FILTER	ORIENT FAN (FORMER ACCO)	KOLKATA	
		THERMAX	PUNE	
		BATLIBOI	SURAT	
		FLAKT	MUMBAI	
2.	DRAIN TRAPS	SPIRAX MARSHAL	MUMBAI	MAIN CONTRACTOR COC ALONG WITH MANUFACTURER STD. TC TO BE SUBMITTED.
		GREAVES COTTON	MUMBAI	
3.	GATE. GLOBE. CHECK VALVES- C.I	LEADER	JULLANDHAR	
		KBL	KONDAPURI	
		BANKIM	HOWRAH	
		H.SARKAR	HOWRAH	
		SURYA VALVES AND INSTRUMENTS MFG CO.	CHENNAI	
		ATAM VALVES PVT. LTD.	JALANDHAR	
		FLUIDLINE VALVES COMPANY PVT.LTD.	MUMBAI	
		G.M. DALUI AND SONS PVT.LTD.	HOWRAH	
		A.V. VALVES LTD	AGRA	
		VENUS PUMPS AND ENGG. WORKS	KOLKATA	
		LEADER	JULLANDHAR	
		KBL	KONDAPURI	
		BANKIM	HOWRAH	
		H.SARKAR	HOWRAH	
	SURYA VALVES AND INSTRUMENTS MFG CO.	CHENNAI		
4.	GATE. GLOBE. CHECK VALVES- G.M	LEADER	JULLANDHAR	MAIN CONTRACTOR COC ALONG WITH MANUFACTURER STD. TC TO BE SUBMITTED.
		SANT VALVES	JULLANDHAR	
		A.V. VALVES LTD	AGRA	
		ATAM VALVES PVT. LTD.	MUMBAI	
		VALTECH INDUSTRIES		

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
5.	GATE. GLOBE. CHECK VALVES- C.S / F.S	KSB	COIMBOITORE	
		WEIR BDK	HUBLI	
		FOURESS	MUMBAI	
		LEADER	JULLANDHAR	
		AUDCO (L&T)	CHENNAI	
6.	BALL VALVES	MICRO FINISH	HUBLI	MAIN CONTRACTOR COC ALONGWITH MANUFACTURER STD. TC TO BE SUBMITTED.
		WEIR BDK	HUBLI	
		PRECISION ENGG.	MUMBAI	
		WEIR BDK ENGG INDUSTRIES	NEW DELHI	
		FLOW CHEM. INDUSTRIES	AHEMDABAD	UPTO 50 NB 800 CLASS: 350NB 150 CLASS
		AUDCO	CHENNAI	
		AKAY INDIA	HUBLI	UPTO 50NB 800 CLASS
		A V VALVES	AGRA	
		ASIAN INDUSTRIAL VALVES & INSTRUMENTS LTD.	CHENNAI	
		ATAM VALVES	JALANDHAR	(1) BALL VALVES: FCS/FSS - 1/2" TO 2" #800 & CCS/CSS - 2.1/2" TO 4" # 150 (2) BALL VALVES: GUN METAL VALVES SIZE 15 NB TO 80 NB - UPTO PN16.0
		GM ENGINEERING	RAJKOT	
		HAWA VALVES (INDIA) PVT. LTD.	NAVI MUMBAI	SIZE UP TO 2" & #800 WITH MOC AS FCS & FSS AND FOR SIZE FROM 65 NB TO 150 NB & #150 WITH MOC AS CCS AND CSS.
		INTERVALVE (INDIA) LTD.	PUNE	STEEL BALL VALVES UPTO 50NB, #800 AND 65NB TO 150NB. #150
		NILON VALVES PRIVATE LIMITED	AHMEDABAD	
		LEADER VALVES LTD.	JALANDHAR	CAST STEEL UPTO 200 MM, CLASS 150/300.
		DEMBLA VALVES LTD.	THANE	
		SURYA VALVES AND INSTRUMENTS MFG CO.	CHENNAI	FOR CARBON STEEL/STAINLESS STEEL UPTO SIZE 200NB.
		UNIFLOW	CHENNAI	
VALTECH INDUSTRIES	MUMBAI	FORGED CARBON & ALLOY STEEL BALL VALVES, SCREWED TYPE BALL VALVES RATING 800, SIZES UPTO 50 & CC& ALLOY STEEL BALL VALVES RATING 150, SIZES 65 TO 200 FLANGED TYPE.		
VAAS AUTOMATION	NEW DELHI			
BELGAUM AQUA VALVE	BELGAUM			
7.	SAFETY RELIEF VALVES	LEADER	JULLUNDHAR	
		BHEL	TRICHY	
		KEYSTONE (TYCO FLOW CONTROL)	HALOL	
8.	MS G.I / ERW PIPES	JINDAL	GHAZIABAD/HISS AR	UPTO 350 NB ERW PIPES AS PER IS 1239/3589

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
		SURYA ROSHNI	BAHADURGARH	UPTO 400 NB
		SAIL	ROURKELA	
		TATA TUBE	JAMSHEDPUR	UPTO 150 NB ERW PIPES AS PER IS 1239
		PSL	CHENNAI/VIZAG/KUTCH/DAMAN	SPIRAL WELD SAW AS PER IS 3589
		LALIT PROFILE	THANE	SPIRAL WELD SAW AS PER IS 3589
		SAMSHI PIPES INDUSTRIES	VADODARA	SPIRAL WELD SAW AS PER IS 3589
		MUKUT PIPES	RAJPURA	LONGITUDINAL SAW (SINGLE SIDE WELD) AS PER IS 3589
		INDUS TUBES	G B NAGAR	UPTO 300 NB ERW PIPES AS PER IS 1239/3589
		MANN IND	INDORE	SPIRAL WELD SAW AS PER IS 3589
		SURENDRA ENGG	RAJPURA	SPIRAL WELD SAW AS PER IS 3589
		PRATIBHA PIPES & STRUCTURE PVT LTD	THANE	SPIRAL WELD SAW AS PER IS 3589
		JCO GAS PIPE	CHINDWARA	SPIRAL WELD SAW AS PER IS 3589
		NUKAT TANKS AND VESSELS	TARAPUR	LONGITUDINAL SAW (SINGLE SIDE WELD) AS PER IS 3589
		DADU PIPES	SIKRANDRABAD	UPTO 300 NB ERW PIPES AS PER IS 1239/3589
		GOOD LUCK TUBES	SIKANDRABAD	
		ADVANCE STEEL TUBES	SAHIBABAD	
		BIHAR TUBES	SIKANDRABAD	
		HI TECH PIPES	SIKANDRABAD	
		RATNAMANI	KUTCH/AHMEDABAD/CHHATRAL	UPTO 400 NB ERW PIPES AS PER IS 3589 AND SAW AS PER IS 3589
		MAHARASHTRA SEAMLESS	RAIGAD	200-500 NB ERW PIPES AS PER IS 3589
		WELSPUN	ANJAR/BHARUCH	UPTO 400 NB ERW PIPES AS PER IS 1239/3589 AND SAW AS PER IS 3589
		JINDAL	GHAZIABAD/HISSAR	UPTO 150 NB
		SURYA ROSHNI	BAHADURGARH	UPTO 350 NB ERW PIPES AS PER IS 1239/3589
		SAIL	ROURKELA	UPTO 400 NB
9.	ACI BENDS	CRAWLEY & RAY	HOWRAH	
		MENON METALLICS	PUNE	
		PARAMOUNT	NAGPUR	
		NORTHERN ALLOY	BHAV NAGAR	
10.	PLATE VALVE/KNIFE GATE VALVE (H/W OPTD & CYLINDER OPTD)	VAAS INDUSTRIES	CHENNAI	
		ORBINOX	COIMBATORE	
		FOURESS	BANGALORE	
		DEZURIKK	CHENNAI	
		JAASH	INDORE	
		VAAS INDUSTRIES	CHENNAI	
		ORBINOX	COIMBATORE	
11.	METTALIC EXPANSION BELLOWS	MB METTALIC BELLOWS	CHENNAI	
		SUR INDUSTRIES	KOLKATA	

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
		LONE STAR	CHENNAI	
12.	RUPTURE DISC	BS & B SAFETY SYSTEM	CHENNAI	
13.	CHAIN PULLEY BLOCK	HERCULES (INDEF)	MUMBAI	MAIN CONTRACTOR COC ALONGWITH MANUFACTURER STD. TC TO BE SUBMITTED.
		LEAP	NEW DELHI	
		TRACTEL	FARIDABAD	
		LIFTING EQUIPMENTS & ACESSORIES	DELHI	
14.	CONVEYING COMPRESSOR (RECIPROCATING)	KIRLOSKAR PNEUMATICS	PUNE	
		INGERSOLL RAND	AHEMDABAD	
	CONVEYING COMPRESSOR (SCREW TYPE)	ELGI	COIMBOITORE	
		ATLAS COPCO	BELGIUM. ASSEMBLY AND TESTING AT PUNE	
		KIRLOSKER PNEUMATIC PUNE	PUNE	
15.	SUMP PUMP (WATER SERVICE)	KISHORE PUMPS	PUNE	
		SU MOTORS	MUMBAI	
		BEST & CROMPTON	CHENNAI	
		SAM	COIMBOITORE	
16.	PNEUMATIC ACTUATOR/ CYLINDER (UP TO 12")	SCHARDER	PUNE	
		NUCON	HYDERABAD	
		VASS	CHENNAI	
		ROTEX	MUMBAI	
17.	MS PLATES / STRUCTURES & SS LINERS (REFER NOTE - 3)	SAIL		
		ISPAT INDUSTRIES		
		ESSAR STEEL		
		IISCO		
		JSW		
		RINL		
		LLOYD STEEL INDUSTRIES LTD.		
		TISCO		
JSPL				
18.	GRATING	INDIANA	PUNE	
19.	TOOLS AND TACKLES	BRANDED		
20.	AIR RECEIVER	SUPPLIERS/SUB-VENDORS	VENDORS MFR. WORKS	SELF-MANUFACTURING
		PARKAIRE	NEW DELHI	
		TEMASME VESELLEX	NOIDA	
		UNITED ENGG WORKS	NASIK	
		INTIGRATED ENGINEERS	PUNE	
		DIAMOND FABRICATOR	PUNE	
		SUPPLIERS/SUB-VENDORS	VENDORS MFR. WORKS	
		PARKAIRE	NEW DELHI	
TEMASME VESELLEX	NOIDA			
21.	STRAINERS (Y-TYPE & BASKET TYPE)	MULTITEX FILTRATION ENGINEERS LIMITED,	NOIDA	
		SAROJINI ENTERPRISES	KOLKATA	

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
		OTOKLIN FILTERS	MUMBAI	
		BHATIA ENGINEERING CO.	DELHI	
		JAYPEE INDUSTRIES PVT. LTD.	DELHI	
		FILTRATION ENGINEERS (I) PVT. LTD.	MUMBAI	
		OTOKLIN GLOBAL BUSINESS LIMITED	MUMBAI	
		SUNGOV ENGINEERING PVT. LTD.	DELHI	
		GRAND PRIX	FARIDABAD	
		MULTITEX FILTRATION ENGINEERS LIMITED,	NOIDA	
		SAROJINI ENTERPRISES	KOLKATA	
		OTOKLIN FILTERS	MUMBAI	
		BHATIA ENGINEERING CO.	DELHI	
		JAYPEE INDUSTRIES PVT. LTD.	DELHI	
22.	DRAIN PUMP (SUBMERSIBLE)	SU MOTORS	MUMBAI	MAIN CONTRACTOR COC ALONGWITH MANUFACTURER STD. TC TO BE SUBMITTED.
23.	HORIZONTAL/VERTICAL CENTRIFUGAL PUMP	KBL	KIROLSKARWADI	
		M&P	PUNE	
		FLOWMORE	GHAZIABAD	
		SULZER PUMPS INDIA LTD.	NAVI MUMBAI	
		WORTHINGTON	GHAZIABAD	
		BHARAT PUMPS & COMPRESSORS LTD	ALLAHABAD	
		FLOWSERVE INDIA CONTROLS PVT. LTD.	COIMBATORE	
		JYOTI LTD.	VADODARA	
	VERTICAL CENTRIFUGAL PUMP	KISHORE PUMP	PUNE	
		SAM TURBO	COIMBATORE	
		KSB	PUNE	
		BEST AND CROMPTON	CHENNAI	
		VOLTAS	MUMBAI	
		V-FLO PUMPS & SYSTEMS CO. LTD.,	BEIJING, CHINA	
24.	FITTINGS	M.S. FITTINGS	KOLKATA	
		METAL LLOYDS	MUMBAI	
		TRUE FORGE	FARIDABAD	
		TUBE PRODUCTS	BARODA	
		NL HAZRA	KOLKATA	
		GUJRAT INFRA PIPES	BARODA	
		EDWARDS	USA	
		PIPEFIT ENGINEERS	BARODA	
		SIDDARTH & GAUTAM	FARIDABAD	
		EBY	MUMBAI	
25.	S.S. PIPES (FOR SMALL QUANTITY	REMI	MUMBAI	
		RATMANI	AHMEDABAD	

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
	500 M)	APEX TUBES	BEHROR	
		CHOKSI	AHMEDABAD	
26.	STEEL PLATE, STRUCTURAL STEEL AND SECTION FOR FIRE WATER STORAGE TANK	SAIL	ANY PLANT	FOR SMALL QUANTITY: AUTHORISED STOCKIST/ DEALER OF APPROVED LISTED MAKES FOR WHICH TCS/IRS WILL BE FURNISHED
		ESSAR STEEL		
		TISCO		
		RINL		
		JINDAL		
		LLOYD		
		ISPAT		
		INDIAN IRON & STEEL CO. LTD		
27.	GEARED MOTOR	PBL	ANAND - V.V NAGAR	
		PREMIUM	PUNE	
		BONFIGLIOLI	CHENNAI	
		SEW	GERMANY	
		IC	AURANGABAD	
28.	ELECTRIC HOIST	ARMSEL MHE PVT. LTD	BANGALORE	CAPACITY UPTO 10 TONS. BOIS BHEL APP.SUB-VENDORS.
		ALPHA SERVICES	BHIWADI	
		CONSOLIDATED HOISTS PVT LTD	PUNE	
		CENTURY CRANE ENGINEERS PVT. LTD.	FARIDABAD	
		EDDY CRANES PVT. LTD.	MUMBAI	
		GRIP ENGINEERS PVT. LTD.,	FARIDABAD	
		GLOBAL TECHNOLOGIES	HYDRABAD	
		HERCULES HOISTS LTD.	KHALAPUR	UPTO 25.0 T CAPACITY.
		LIFTING EQUIPMENTS AND ACCESSORIES	DELHI	
		MANGLA HOISTS PVT LTD	DELHI	
		MEEKA MACHINERY PVT. LTD.	AHEMDABAD	UPTO 15 TONNES.
		REVA INDUSTRIES LTD.	FARIDABAD	
		ROCKWELL HOISTO CRANES PVT. LTD.	BAHADURGARH	
		SAFEX ENERGY PVT. LTD.	AHEMDABAD	
		TUOBRO FURGUSON (INDIA) PVT LTD	KOLKATA	
		TECHNO INDUSTRIES	AHEMDABAD	
29.	MRHS - SILO	SUPPLIERS/SUB-VENDORS	VENDORS MFR. WORKS/ SITE	
30.	FQP RECEIPT, STORAGE & ERECTION	SUPPLIERS/SUB-VENDORS	VENDORS MFR. WORKS	
B	ELECTRICAL & INSTRUMENTATION			
1.	MOTORS	SIEMENS	MUMBAI	FOR HT AND LT MOTOR
		NGEF	BANGALORE	UP TO 15KW
		KEC	BANGALORE/HUBLI	HUBLI UP TO 90KW
		CGL	AHEMAD NAGAR	
		ABB	FARIDABAD/ BANGALORE	FARIDABAD UP TO 55KW, BANGALORE ABOVE 55KW &

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
				UP TO 200KW.
		MARATHON	KOLKATA	FOR HT AND LT MOTOR
		CROMPTON GREEVES	AHMEDABAD	FOR HT AND LT MOTOR
		JYOTI	VADODARA	FOR LT MOTOR ONLY
		LHP	SOLAPUR	UP TO 120 KW
		BHEL	BHOPAL	FOR HT MOTOR ONLY
		BHARAT ELECTRIC (BHEL)		FOR LT MOTOR ONLY
		BBL	MUMBAI	UP TO 160KW (LT MOTOR ONLY)
2.	AIR FILTER / LUBRICATOR / REGULATOR	PLACKA	CHENNAI	
		SHAVONORGAN	MUMBAI / BANGALORE	
3.	LEVEL SWITCHES (RF) / CAPACITANCE TYPE	EIP ENVIRO LEVEL CONTROL	NOIDA	
		NIVO CONTROL	INDORE	
		FLOW STAR	FARIDABAD	
		E&H	GERMANY/AURAN GABAD (INDIA)	ONLY CAPACITANCE TYPE
		SAPCON	INDORE	
		LEVCON	KOLKATA	
		DREXEL BROOK	USA	
4.	ANNUNCIATORS ANNUNCIATORS	IIC	MUMBAI	
		PECON	AHEMDABAD	
		PROCON	CHENNAI	
5.	SOLENOID VALVES	NUCON	HYDERADAB,	
		HERION	GERMANY	
		ASCO	CHENNAI	
		ROTEX	BARODA/ VV NAGAR	
		SMC	NOIDA	
		AVCON	MUMBAI	
6.	PRESSURE SWITCHES, DP SWITCHES / TEMPERTAURE SWITCHES	BARTON INST. SYSTEM	USA	
		SWITZER	CHENNAI	UPTO 40KG/CM2 & 200DEG EXCEPT 900SERIES, NOT FOR COMPOUND PRESSURE SWITCH
		GAUGES BOURDON (FOR PRESSURE SWITCH)	PANVEL	UPTO 40KG/CM2 & 200DEG EXCEPT COMPOUND PRESSURE SWITCH
		ASHCROFT	GANDHINAGAR	
		INDFOS IND.	GAZIABAD	UPTO 40KG/CM2 & 200DEG EXCEPT COMPOUND PRESSURE SWITCH
		DRESSER	USA	
		TRAFAG	RANIPET/ GURGAON	
7.	PRESSURE GAUGES && DP GAUGES	AUXITROL	UK	MAIN CONTRACTOR COC ALONGWITH MANUFACTURER STD. TC TO BE SUBMITTED.
		BUDENBURG	UK	
		GAUGE BOURDEN	PANVEL	
		GOA THERMOSTATIC	GOA	
		MANOMETER INDIA	MUMBAI	
		SWITZER (DP GAUGE)	CHENNAI	

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
		FORBE MARSHALL	HYDRABAD	
		GUCK INDIA	MUMBAI	
		AN INSTRUMENTS	KOLKATTA	
		H GURU SOUTH INDIA	BANGALORE	
		GENERAL INST	MUMBAI/GOA	
		WIKA	PUNE	
		BAUMER TECHNOLOGIES INDIA PVT. LTD.	MUMBAI-MAHARASHTRA	
		ASHCROFT INDIA PVT LTD.	KALOL-GUJARAT	
8.	TEMPERTURE GAUGES	AN INSTRUMENTS	KOLKATTA	MAIN CONTRACTOR COC ALONGWITH MANUFACTURER STD. TC TO BE SUBMITTED.
		WIKA	PUNE	
		GAUGES BOURDON	PANVEL	
		H. GURU SOUTH INDIA	BANGALORE	
		FORBE MARSHALL	HYDRABAD	
		BUDENBURG	UK	
		GENERAL INST	MUMBAI/GOA	
		GOA THERMOSTATIC	GOA	
		ASHCROFT INDIA PVT LTD.	KALOL-GUJARAT	
		BAUMER TECHNOLOGIES INDIA PVT. LTD.	MUMBAI-MAHARASHTRA	
9.	PULSE VALVE	ASCO	CHENNAI	
		MANIK	PUNE	
10.	CABLE GLANDS	SUNIL & CO.	KOLKATTA	
		ARUP ENGG.	KOLKATTA	
		QUALITY PRECISION	KOLKATTA	
		COMET	MUMBAI	
11.	CABLE LUGS	DOWELLS	MUMBAI	
		BILLET (3D)	VALSAD	
		WAGO	INDIA	
		COMET	MUMBAI	
		CHETNA	NASHIK	
12.	CABLE TRAYS & ACCESSORIES	MJ ENGG	DELHI / BHIWADI	
		JAMUNA METALS	DELHI / SONEPAT	
		INDUSTRIAL PERFORATION	KOLKATTA	
13.		INDIANA GRATINGS PVT. LTD.	MUMBAI	GALVANISATION TO BE DONE FROM BHEL-PEM APPROVED GALVANIZERS.
		INAR PROFILES	ANAKAPALLI	GALVANIZATION AT VISAKHA-ANAKAPALLY
		EROS METAL WORKS (P) LTD.	NAGPUR	GALVANISATION TO BE DONE AT M/S EROS INFRASTRUCTURE PVT. LTD. OR FROM BHEL-PEM APPROVED GALVANIZERS.
		INDIA ELECTRICALS SYNDICATE	KOLKATA	REGISTERED AS PER 27TH MISCC-ELECTRICAL AND C&I MEETING DTD. 13.03.2014.
		INDMARK FORMTECH PVT. LTD.	PUNE	GALVANIZING UNIT LOCATED AT PHAS-3, E-11/1, MIDC, PUNE ,
		MAHESHWARI ELECTRICAL	NOIDA	GALVANIZING TO BE DONE

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
		MFRS. PVT. LTD.,		FROM BHEL-PEM APPROVED GALVANIZERS.
		NAMDHARI INDUSTRIAL TRADERS PVT. LTD	LUDHIANA	GALVANISING CAN BE DONE FROM THEIR OWN GALVANISING PLANT OR PEM APPROVED GALVANISING UNITS
		PREMIER POWER PRODUCTS (CAL) PVT. LTD.	KOLKATA	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS.
		PATNY SYSTEMS (P) LTD	SEUNDRABAD	
		PARMAR METALS PVT.LTD.	RAJKOT	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS.
		PASSIVE INFRA PROJECTS PVT. LTD.	DELHI	
		PENTAX FERRO INCORPORATE	MUMBAI	IT'S GALVANIZATION PLANT M/S GALBRO ISPAT GALVANIZERS PVT. LTD.
		RUKMANI ELECTRICAL & COMPONENTS PVT LTD	KOLKATA	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED ADDITIONAL WORKS AT RAIPUR INCLUDING GALVANIZING PLANT.
		RATAN PROJECTS & ENGINEERING CO. PVT.LTD.	KOLKATA	MSD-MICRO; GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS. REMARKS CHANGED W.E.F. 03.07.2014; , ADDITIONAL WORKS AT "SANKRAIL INDUSTRIAL PARK, BHAGABATIPUR MAUJA, DHULAGARH, HOWRAH-711302" APPROVED W.E.F. 08.12.2014 ,
		RABI ENGINEERING WORKS PVT. LTD.	KOLKATA	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS. LATEST LIST WILL BE PROVIDED AT THE TIME OF TENDERING; REMARKS ADDED W.E.F. 03.07.2014
		SARAL INDUSTRIES	RAE BAREILI	APPROVED IN PERMANENT CATEGORY FOR FABRICATION OF CABLE TRAYS & ACC. ONLY. GALVANIZING TO BE DONE FROM BHEL APPROVED GALVANIZERS.
		UNITECH FABRICATORS AND ENGINEERS PVT LTD	KOLKATA	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS. LATEST LIST WILL BE PROVIDED AT THE TIME OF TENDERING; REMARKS CHANGED W.E.F. 03.07.2014
		VINFAB ENGINEERS INDIA PVT. LTD.	MUMBAI	

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
14.	LOCAL PANEL / LPBS	PYROTECH	UDAIPUR	LOCAL PANEL: CAT- I & LPBS: CAT- III*
		C & S	NOIDA	
		INDUST CONTROLS AND APPLIANCE	MUMBAI	
		POSITRONICS	BARODA	
		SWITCHING CIRCUITS	KOLKATTA	
15.	JUNCTION BOXES	AJMERA INDUSTRIAL & ENGINEERING WORKS	MUMBAI	GALVANIZED AND FRP JUNCTION BOXES
		KEMROCK	VADODARA	FRP JUNCTION BOXES
		TRINITY TOUCH	PALWAL	FRP JUNCTION BOXES
		FLEXPRO ELECTRICALS PVT. LTD.	GIDC, KABILPORE, NAVSARI-GUJARAT	METAL TYPE JUNCTION BOX ONLY
		K.S.INSTRUMENTS PVT.LTD.	INDUSTRIAL SUBURB, YESHWANTHPUR BANGALORE-KARNATAKA	
		SUCHITRA INDUSTRIES	REJAMAHALVILAS EXTN 2ND STG BANGALORE	
		SHRENIK & COMPANY,	PANCHRATNA INDUSTRIAL ESTATE, SARKHEJ-BAVLA ROAD AHMEDABAD-GUJARAT	FRP JBS AND METAL JBS.
		HOFFMAN	BANGALORE	
		RITTAL	BANGALORE	
16.	CONTROL CABLES	PARAMOUNT CABLE	ALWAR	FOR QUANTITY LESS THAN 500 METERS / SIZE, MANUFACTURER'S COC ALONG WITH TYPE TEST CLEARANCE SHALL BE REVIEWED.
		DELTON	FARIDABAD	
		NICCO	KOLKATTA	
		HVPL	FARIDABAD	
		POLYCAB	DAMAN	
		KEI	BHIWADI	
		RADIANT	HYDRABAD	
		ICL	RAJPURA	
		CORDS CABLE	BHIWADI	
17.	SIGNAL CABLES	PARAMOUNT CABLE	ALWAR	IF A VENDOR IS APPROVED IN PAST AND FOR 5 YEARS VENDOR HAVE NOT SUPPLIED ITEMS TO BHEL THEN DETAILS TO BE FURNISHED.
		RELIANCE ENGR.	BANGALORE	
		NICCO	KOLKATTA	
		DELTON	FARIDABAD	
		UNIVERSAL	SATNA	
		CORDS CABLE	BHIWADI	
		KEI	BHIWAF	
		THERMOCABLES	HYDRABAD	
		ELAKAY TELELINKS	FARIDABAD	
POLYCAB	DAMAN			

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
18.	EARTHING MATERIALS	INDIANA	PUNE	
		JAMUNA METALS	DELHI	
		MJ ENGG	DELHI	
19.	LEVEL INDICATOR / GAUGES [FLOAT & BOARD TYPE / FLOAT & DISPALCER TYPE / TRANSPARARENT & REFLEX TYPE]	SBEM PVT. LTD.	PUNE	
		PUNE TECHTROL	PUNE	
		LEVCON	KOLKATTA	
		SIGMA	MUMBAI	
		DK INSTRUMENTS	KOLKATTA	
		GAUGE BOURDEN	PANVEL	
20.	TRANSMITTERS	ABB LIMITED	FARIDABAD-HARYANA	PRESSURE TRANSMITTER, DP TRANSMITTER AND TEMP TRANSMITTER
		ENDRESS + HAUSER (INDIA) PVT. LTD.,	NEW DELHI	FOR TEMPERATURE TRANSMITTER ONLY.
		MOORE INDUSTRIES INTERNATIONAL INC.	CALIFORNIA-USA	INDIAN REPRESENTATIVE: CHEMTROL INDUSTRIES LTD.
		NIVO CONTROLS PVT. LTD.	INDORE-M.P	FOR CAPACITANCE TYPE ONLY
		PUNE TECHTROL PVT. LTD.	PUNE-MAHARASHTRA	ONLY FOR CAPACITANCE TYPE LEVEL TRANSMITTER
		EMERSON PROCESS MANAGEMENT (INDIA) PVT.LTD.	MUMBAI-MAHARASHTRA	
		SIEMENS LIMITED	MAHARASHTRA	
		SMART INSTRUMENTS LTD, BRAZIL	MUMBAI-MAHARASHTRA	LD-301 & T-301 TRANSMITTER FROM M/S SMART EQUIPMENTS BRAZIL.
		SBEM PVT. LTD.	PUNE-MAHARASHTRA	FOR CAPACITANCE TYPE.
		HONEYWELL AUTOMATION INDIA LIMITED	NEW DELHI-DELHI-INDIA	
		TOSHNIWAL INDUSTRIES PVT. LTD.,	AJMER,-RAJASTHAN,	
		V. AUTOMAT & INSTRUMENTS (P) LTD.	NEW DELHI-	A) DISPLACEMENT TYPE TRANSMITTERS. B)PRESSURE AND DP TRANSMITTERS
		YOKOGAWA INDIA LIMITED,	BANGALORE-KARNATAKA	
21.	MICRO-PROCESSOR / MICRO-CONTROLLER MICRO-PROCESSOR / MICRO-CONTROLLER	ALLEN BRADLY	BANGALORE	
		SIEMENS	BANGALORE	
		GE	BANGALORE	
		SCHENIDER	BANGALORE	
22.	Battery	EXIDE	KOLKATA	
		HBL POWER SYSTEM	HYDERABAD	
		AMAR RAJA	TIRUPATI	
		AMCO SAFT	BANGALORE	
		HBL POWER SYSTEM	HYDERABAD	
		SAFT	FRANCE/SWEDEN	
23.	DC Lead Acid / Ni-Cd Batteries	AMCO SAFT INDIA LTD	BANGALORE-KARNATAKA	
		EXIDE INDUSTRIES LTD	NEW DELHI	

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
		HBL POWER SYSTEMS LTD	HYDERABAD-AP	
		HOPPECKE BATTERIEN GMBH & CO.KG,	BRILON HOPPECKE-GERMANY	
24.	DC BATTERY CHARGER	AMARA RAJA POWER SYSTEMS LIMITED	TRIPUTI-TAMIL NADU	
		CHHABI ELECTRICALS PVT.LTD.	JALGAON-MAHARASHTRA	
		CHLORIDE POWER SYSTEMS & SOLUTIONS LIMITED	KOLKATA-WEST BENGAL	
		DUBAS ENGG PVT LTD	BANGALORE	
		HBL POWER SYSTEMS LTD	HYDERABAD-AP	
		JEMA ENERGY	LASARTE-ORIA--SPAIN	
		MASS-TECH CONTROLS PVT.LTD.	MUMBAI	
		STATCON POWER CONTROLS LTD	NOIDA-UTTAR PRADESH	
25.	INSTRUMENT FITTINGS	AURA INCORPORATED	DELHI	
		ASTEC VALVES & FITTINGS PVT. LTD.,	MUMBAI	
		ARYA CRAFTS & ENGINEERING PVT. LTD.	MUMBAI	
		COMFIT & VALVE PVT. LTD.	NANDASAN	
		FLUIDFIT ENGINEERS PVT. LTD.	MUMBAI	
		FLUID CONTROLS PVT. LTD.	MUMBAI	
		HP VALVES & FITTINGS INDIA PVT. LTD.	CHENNAI	
		PRECISION ENGINEERING INDUSTRIES	MUMBAI	
		PANAM ENGINEERS,	MUMBAI	
		PERFECT INSTRUMENTATION CONTROL (INDIA) PVT. LTD.	MUMBAI	
		VIKAS INDUSTRIAL PRODUCTS	NOIDA	
26.	CABLE TRAY SUPPORT SYSTEM -BOLTABLE	AM-TECH ENGG.SERVICES	PUNE	
		INDUSTRIAL PERFORATION (I) PVT.LTD.	KOLKATA	
		INDMARK FORMTECH PVT. LTD.	PUNE	WORKS ADDRESSES ARE APPLICABLE FOR MANUFACTURING AND GALVANISING.
		PREMIER POWER PRODUCTS (CAL) PVT. LTD.	KOLKATA	
		RATAN PROJECTS & ENGINEERING CO. PVT.LTD.	KOLKATA	GALVANIZING UNIT LOCATED AT PHAS-3, E-11/1, MIDC, PUNE
		STEELITE ENGINEERING LTD.	MUMBAI	
27.	CABLE TRAY SUPPORT SYSTEM-WELDED(GALV)	ASSOCIATED POWER STRUCTURES PVT. LTD.	VADODARA-GUJARAT	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS.
	CABLE TRAY SUPPORT SYSTEM-WELDED(GALV)	INDUSTRIAL PERFORATION (I) PVT.LTD.	KOLKATA-WEST BENGAL	
		INDMARK FORMTECH PVT.	PUNE-	

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
		LTD.	MAHARASHTRA	
		JAMNA METAL COMPANY	NARLA INDL. AREA DELHI	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS.
		PREMIER POWER PRODUCTS (CAL) PVT. LTD.	KOLKATA,-WEST BENGAL	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS. ADDITIONAL WORKS AT "SANKRAIL INDUSTRIAL PARK, BHAGABATIPUR MAUJA, DHULAGARH, HOWRAH-711302" APPROVED
		PATNY SYSTEMS (P) LTD	SECUNDRABAD	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS.
		PASSIVE INFRA PROJECTS PVT. LTD.	PITAMPURA DELHI	REGISTERED IN PERMANENT CATEGORY ALONG WITH GALVANIZER M/S SARAL PROJECTS AND PROCESSORS , ,
		RUKMANI ELECTRICAL & COMPONENTS PVT LTD	KOLKATA-WEST BENGAL	GALVANISATION TO BE DONE AT ITS OWN PLANT OR FROM BHEL-PEM APPROVED GALVANIZERS.
		RATAN PROJECTS & ENGINEERING CO. PVT.LTD.	KOLKATA-WEST BENGAL	
		RABI ENGINEERING WORKS PVT. LTD.	KOLKATA-WEST BENGAL	
		SARAL INDUSTRIES	RAE BARELI-UTTAR PRADESH	
		UNITECH FABRICATORS AND ENGINEERS PVT LTD	KOLKATA-WEST BENGAL	HEAT SHRINKABLE TYPE ONLY.
28.	CABLE TRAY SUPPORT SYSTEM- WELDED(UNGALV)	RASHTRIYA ISPAT NIGAM LIMITED	AMBAWADI AHEMDABAD	
		STEEL AUTHORITY OF INDIA LTD.	ISPAT BHAWAN LODI ROAD NEW DELHI	
29.	CABLE TERM.& JOINT KITS	3M ELECTRO AND COMMUNICATION INDIA P.LTD	RAJENDRA PLACE, DELHI	CABLE TERM.& JOINT KITS
		HARI CONSOLIDATED PVT.LTD.,NEW DELHI	JHANDEWALAN, NEW DELHI-DELHI	
		RAYCHEM RPG PRIVATE LIMITED	JANAKPURI NEW DELHI	
		YAMUNA CABLE ACCESSORIES PVT. LTD.	AMBALA ROAD, JAGADHRI YAMUNANAGAR-HARYANA	
30.	MICRO-PROCESSOR / MICRO-CONTROLLER	ALLEN BRADLY	BANGALORE	
		SIEMENS	BANGALORE	
		GE	BANGALORE	
		SCHENIDER	BANGALORE	
31.	ACTUATOR FOR MOTORISED VALVE	AUMA	BANGALORE	
		LIMITORQUE	FARIDABAD	
32.	PAINT	ASIAN PAINTS (I) LTD.	ANY PLANT	
		BERGER PAINTS INDIA LTD		

SUB-VENDOR LIST MILL REJECT HANDLING SYSTEM (PNEUMATIC TYPE)

SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS
		GOODLASS NEROLAC		
		JENSON & NICHOLSON (I) LTD		
		CDC CARBOLINE (I) LTD.		
		SHALIMAR PAINTS LTD.		
		ADDISON PAINTS LTD		
		GRAND POLYCOAT		
		BOMBAY PAINTS		
		HEMPLE PAINTS (SINGAPORE)		
		JOTUN PAINTS		

NOTE:

1. THE SUB VENDOR LIST ABOVE IS INDICATIVE ONLY AND IS SUBJECT TO BHEL AND CUSTOMER APPROVAL DURING DETAILED ENGINEERING STAGE WITHOUT ANY COMMERCIAL & DELIVERY IMPLICATION TO BHEL.

BIDDER TO PROPOSE SUB VENDOR WITHIN 4 WEEKS OF PLACEMENT OF LOI. THEREAFTER NO REQUEST FOR ADDITIONAL SUB-VENDOR SHALL BE ENTERTAINED.

2. DEALERS ARE NOT ACCEPTABLE FOR ANY ITEM OF THE PACKAGE. BIDDER SHALL PROCURE ALL ITEMS INCLUDING PLATES, STRUCTURAL, FLANGES; COUNTER FLANGES ETC. FROM APPROVED SUB VENDOR ONLY.
3. THE INSPECTION CATEGORY WILL BE INTIMATED AFTER AWARD OF CONTRACT BY BHEL/CUSTOMER. HOWEVER THE SAME WILL BE ADHERED BY THE BIDDER WITHOUT ANY COMMERCIAL AND DELIVERY IMPLICATION TO BHEL/ CUSTOMER.