Request for Proposal
for

Boiler and ESP Package for Overhaul of GMDC's 2X125 MW Akrimota Thermal Power Station (ATPS), Gujarat

Answer to Pre-Bid Queries and Corrigendum – VIII

Gujarat Mineral Development Corporation Limited
Khanij Bhavan, 132-Ring Road, Gujarat University Ground,
Vastrapur, Ahmedabad- 380052

Pre-Bid Meeting Date: 23rd August 2023

Table of Contents

Responses to pre-bid queries

Sr. No.	Clause No	Description of clause	Pre-bid query/clarification	Response / Addendum / Corrigendum (If any)
1	**As per Scope of Overhauling - Clause 3.1.2.3**			
2	Plan - 1: Auxiliary boiler	Supply, installation, and commissioning of baffle plates as per the specifications detailed in Annexure 2, Plan1	Bank Tube assembly drawing with baffle plate is required. Pr. Parts GA Drawing required. Earlier given drawings all are individual tube only	Available drawings attached as part of Annexure 1 of this corrigendum.
3	Plan - 1: Auxiliary boiler	Replacement of drum vent line (supply of drum vent line in Owner's scope)	Drum Vent line drawing required to identify the scope of site work.	Available drawings attached as part of Annexure 1 of this corrigendum.
4	Plan - 1: Auxiliary boiler	Cutting and removal of cover plates and breaking of refractory Cover plate welding and cladding application	Aux. Boiler is fully covered with Seal Box. For replacement of pr. Parts all cover plate seal box to be removed. No materials considered for this work in Annexure 02	Available drawings attached as part of Annexure 1 of this corrigendum.
5	Plan - 1: Auxiliary boiler	Installation of brick lining and application of refractory at burner mouth	Bricks qty given in Corrigendum - IV. But other Refractory materials qty not given. Refractory application may will come in Manhole, Seal box, Bank tube or SH area. Refractory Drawing required.	Additional Refractory Material – LC GUN 80 – 5 TON
6	Plan - 1: Auxiliary boiler	Super Heater Panels	Super Heaters drawing not provided	Available drawings attached as part of Annexure 1 of this corrigendum.
7	Plan 2: Ash cooler: Ash cooler recirculation bellow	Supply and install non-metallic bellows and MS plates as per specifications in Annexure 2, Plan 2	Drawing required for expansion bellow. Details / weight for SS316L & MS/GI piping for sea water into ash cooler.	Available drawings attached as part of Annexure 1 of this corrigendum.

8	Plan 2: Ash cooler: Ash cooler sea water line	Supply and install SS 316 L and MS/GI pipelines for sea water into ash cooler	Drawing required for expansion bellow. Details / weight for SS316L & MS/GI piping for sea water into ash cooler.	Supply and install SS 316 L pipelines for sea water into ash cooler. Length of SS 316L pipe – 30 meters
9	Plan 2: Ash cooler: Ash rotary seal	Supply and replace ash rotary seal	Drawing required for ash rotary seal	Available drawings attached as part of Annexure 1 of this corrigendum.
10	Plan 4: Pressure parts (Boiler): Furnace	Inspect, supply, and replace furnace bed tubes, furnace tubes, evaporator tubes, evaporator intermediate wall tubes, superheater tubes, and reheater tubes as per observations identified during the RLA and specifications detailed in Annexure 2, Plan 4 Inspect, supply, and replace economizer section tubes, 2nd pass upper hanger tubes (SH1), 2nd pass lower hanger tubes	Supply part considered as per RFQ. Still detailed fabrication drawings for boiler pressure parts required for manufacturing purpose & Assembly drawings required for establishing the replacement philosophy (Dismantling & erection)	Available drawings attached as part of Annexure 1 of this corrigendum.
11	Plan 4: Pressure parts (Boiler): 2nd Pass			

		(SH2), front wall tubes (SH1), LH/RH side wall tubes (SH2), rear wall tubes (SH3), superheater (SH3, SH5) tubes, and reheater (RH1) tubes as per observations identified during the RLA and specifications detailed in Annexure 2, Plan 4		
12	Plan 4: Pressure parts (Boiler): Soot blower	Supply & replace soot blowers for TAPH	Details not sufficient make and drawing / datasheet required for soot blower For lance tubes specifications, size & MOC required.	Available drawings attached as part of Annexure 1 of this corrigendum.
13	Plan 4: Pressure parts (Boiler): Soot blower	Supply & replace soot blowers for HRSB		
14	Plan 4: Pressure parts (Boiler): Soot blower	Supply of lance tubes for soot blowers		
15	Plan 4: Pressure parts (Boiler): Soot blower	Supply of spares for LRSB, HRSB, rotary soot blowers		
16	Plan 4: Pressure parts (Boiler): SWAS	Install MS lines for SWAS coolers	Not considered as not mentioned in Annexure - II of RFP & Corrigendum IV	1” x 4mm - 60 mtr. 100NB x 8mm- 120 mtr. 2" X 4mm – 120 mtr.
17	**As per Annexure 2 for RFP**			

18	Plan 4: Pressure parts (Boiler): Furnace	Supply, and replace furnace bed tubes, furnace tubes, evaporator tubes, evaporator intermediate wall tubes, superheater tubes, and reheater tubes as per observations identified during the RLA and specifications detailed in Annexure 2, Plan 4	Detailed fabrication drawings required for fabrication. Which tubes replacement to be done in Water walls / RTA Area, Water Wall, SH, RH and Economizer? And Which location? What is the tentative length for each tube replacement? Whether part tubes to be replaced or Panels to be replaced. Preliminary RLA reports is not sufficient for this. Details reports required and Exact location to be identified and marked in Pr. Parts drawing then only, replacement cost can be calculated.	Available drawings attached as part of Annexure 1 of this corrigendum. Detailed RLA report will be shared with successful bidder. RTZ area: 1500 mtr size: 57 x 8.1 mm and 400 mtr. Size;57 x 6.1mm, both unit ECO bottom bank (APPROX 38880 Mtr.) replacement, both unit-1 SH4,RH2 550Nnosx 12.5 mtr length ,Font wall SH1 Tubes approx. 200nos x 6 mtr. Length

19	Plan 4: Pressure parts (Boiler): 2nd Pass	Supply, and replace economizer section tubes, 2nd pass upper hanger tubes (SH1), 2nd pass lower hanger tubes (SH2), front wall tubes (SH1), LH/RH side wall tubes (SH2), rear wall tubes (SH3), superheater (SH3, SH5) tubes, and reheater (RH1) tubes as per observations identified during the RLA and specifications detailed in Annexure 2, Plan 4	Detailed drawings required For SH 4 & RH 2 also detailed drawings required for Omega tube type heaters	Available drawings attached as part of Annexure 1 of this corrigendum.

20	Plan 5: Cyclone: Replacement of cyclone plates	Supply and refurbishment of MS plates cylindrical and in conical area for the cyclones, Supply and apply brick lining for the cyclone refractory. Supply and apply insulite across the cyclone Supply and refurbishment of 10 mm SS310 and 8 mm MS plates for the shell Supply and install anchors across the vortex	We understood that 1st Pass Gas O/ L to Cyclone Inlet, Cyclone and Cyclone O/L to 2nd Pass I/L whole part to be replaced with supports. BOQ given for only plates. But qty/BOQ of Stiffener channels, supporting members / Main Beams etc., not provided. Total Items weight is required.	Repair / replacement of all supports and beam to be done (MS supports and beams of approx. 10 tons
21	Plan 5: Cyclone: Brick lining for cyclone refractory	Brick: 80000 Nos.	Kindly provide data for type of bricks used along with detailed quantity of bricks, size & MOC.	Available cyclone refractory drawings attached as part of Annexure 1 of this corrigendum.
22	Plan 5: Cyclone: Refractory (Anchors)	Anchor for refractory & vortex	Kindly specify type of anchor in furnace, cyclone zone etc. as per shared details Along with size & MOC for estimation purpose Provided detail not sufficient	Available drawings attached as part of Annexure 1 of this corrigendum.
23	Plan 5: Cyclone: Refractory (Anchors)	Anchor for furnace refractory		
24	Plan 5: Cyclone: Refractory (Anchors)	Anchor for shell refractory		
25	Plan 7: Ducts: Insulation (PA, SA,	60 mm and 150 mm thickness	Kindly specify separate requirement for different thicknesses of insulation	Approximately 6125 sqm each.

	and ID)			
26	Plan 7: Ducts: Supply and install fan ducts for PA, SA, and ID fans	-	PA & SA Ducts Drawing required. Approx. 63 MT MS Plate given in Annexure 02. Stiffener, Supports, Internal support and Flange materials for Ducting to be additionally considered. Which duct replacement to be done? Location to be marked in specific drawing	Available drawings attached as part of Annexure 1 of this corrigendum.
27	Plan 7: Duct: Cleaning/inspection/ repair or replacement of expansion joint	-	Qty given for ID Fan Suction and Discharge Bellow. Is any other expansion joint replacement required? Qty required	As per RfP
28	Plan 7: Duct: Painting of duct inside as required	-	Paint Qty not mentioned in Annexure 02. Is painting to be done in all Duct?	Painting to be done in all ducts approximately 6125 sqm.
29	Plan 7: Duct: Repair of crack in wind box ducts	-	It should be quantified.	4 Nos
30	Plan 8: Fans: Insulation (PA, SA and ID)	60 mm and 150 mm thickness	Quantity bifurcation required for both thicknesses	Approximately 6125 sqm each.
31	Plan 9: Hangers & supports	Internal pipe supports, External pipe supports, Soot blower, reheater, economizer drains Air & flue gas ducts Cyclone	Technical specifications for all hangers' support required. As per Hanger schedule & RFP. Penthouse - Disc Type support details required.	Available drawings attached as part of Annexure 1 of this corrigendum.
32	Plan 12: Lime dosing system: Sr. No.: 5.1, 5.2 & 5.3 - Mill ball	Procurement of mill ball (40 mm, 50 mm & 60 mm)	Details required	Available details attached as part of Annexure 1 of this corrigendum.

33	Plan - 12: Lime Dosing system	Component - Bag Filters, Screw Pump, Bag Filter & Lime Compressors, Compressor Belts, Mill Ball, L Valves, Mill Gear box, Chain Conveyors, DE / NDE Pump, Main Gear Box Pumps, HAG Burners, Ball Valves,	Detail drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
34	Plan -13: Tubular APH	Supply and install tubes Supply and install SS plate for bellows and pipe	APH Tubes with Tube Sheet Assembly & Detail drawing Required. Drawings required for FD and SA Air Duct connection with TAPH and APH Casing drawing. Expansion bellow cannot be fabricated at site. Fabricated materials to be supplied. Drawing & Location required. APH Tubes Welding and Expansion details required. Is any baffle plates installed in APH? If yes, Qty and Drawings required. Ducting & Casing may be required for Dismantling of Tubes. Additional Materials to be considered for this APH Support arrangement, Seismic Support / Buckstay drawing is required.	Available drawings attached as part of Annexure 1 of this corrigendum.
35	Plan 14: TAPH: Sr. No. 3: Insulation	80 mm and 150 mm thickness insulation	Quantity bifurcation required for both thicknesses	Approximately 2400 sqm each.
36	Plan 17: C&I: Sr. No. 27 - Burner system	Burner spares	Provided details not sufficient, Kindly provide burner GAD / make of burner along with technical specifications	Available drawings attached as part of Annexure 1 of this corrigendum.

37	Plan 17: C&I: Sr. No. 44 - HFO and LDO system	LDO tank - Dia- 9 mtr, ht-8 mtrs, radar type; Make: Electrical Equipment Corporation	Detailed drawing required for existing LDO tank replacement	Available drawings attached as part of Annexure 1 of this corrigendum.
38	Plan 4: Boiler pressure parts: Insulation for pipelines	150 mm and 100 mm thickness	Quantity bifurcation required for both thicknesses	Approximately 5000 sqm each.
39	**As per Annexure 2 of Corrigendum IV**			
40	Soot blower: Soot bowler TAPH	-	Drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
41	Soot blower: Soot bowler HRSB		Drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
42	Soot blower: Lance		Drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
43	Soot blower: Lance		Drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
44	Lignite drag link conveyor: Spares	Chain links, sprockets, manual gates	GA required along with detailed drawing of parts required.	Available drawings attached as part of Annexure 1 of this corrigendum.
45	Lignite rotary air lock feeder	Pin, shaft, vent valves, rings & caps, Metallic expansion joint & manual gates	GA required along with detailed drawing of parts required.	Available drawings attached as part of Annexure 1 of this corrigendum.

46	Lignite feeding system	Inspection, overhauling, repair & replacement of attachments for lignite feeding system. Replacement of defective liners	Details drawings required. Along with quantity for defective liners.	Liner moc is SS304 and of 5mm thickness. Available drawings attached as part of Annexure 1 of this corrigendum.
47	**Other Queries & Details required**			
48	List of approved vendors	-	Kindly list of approved vendors (For electrical / C&I, refractory etc.) else provide confirmation for us to proceed further with ISGEC approved suppliers.	Successful bidder can proceed with their approved suppliers in accordance with the RfP
49	Boiler log sheets (for both boilers)	-	Boiler log sheets required at boiler full load for cross verifying boiler running parameters as mentioned in the RFP.	Required data will be shared with successful bidder.
50	Refractory (Anchors) as per D2-Cyclone outlet duct	Cyclone outlet duct – T, CROSS BAR and UV type anchors are shown	Share the anchor drawings and MOC.	Available drawings attached as part of Annexure 1 of this corrigendum.
51	DRG. NO. D7 - Refractory Lining at Opening at 1st pass	-	Provide drawings no. U009001-0524 AND 0553 for anchor(stud) details.	Available drawings attached as part of Annexure 1 of this corrigendum.
52	DRG. NO. D7 - Refractory Lining at Opening at 1st pass	-	In opening SIC90 -REFRACTORY MOULDABLE (7104) is used as per drawing but the same material is not considered in bill of material. Please clarify	Direct Insulite is to be considered.
53	Refractory Comments	-	Request to share detail refractory drawings available of Tata refractories for bill of quantity and installations	Available drawings attached as part of Annexure 1 of this corrigendum.

54	Refractory Comments	-	We understand refractory grades like LCC 50, LCC 80 etc. however share specifications / datasheets if applicable else we can follow standard grades	Available specifications attached as part of Annexure 1 of this corrigendum.
55	**GENERAL COMMENTS**			
56	General	While the Owner will arrange for the accommodation and food for Successful Bidder's personnel deployed in the Plant on the basis of availability and on a chargeable basis, in case infrastructure is not available, the Successful Bidder shall be responsible for arranging the same for the entire course the Overhaul.	Staff Accommodation compulsory required as there are no facilities available in nearby area. Space for making labor Hutment should be provided inside the factory premises as plant location is very remote area.	As per RfP

57	General	4.1.1. Access to Plant infrastructure The Owner will arrange for the Successful Bidder's accommodation and food and beverage requirements at the Plant for the key Personnel deployed on ground to oversee the execution of the Overhaul, on chargeable basis and on the basis of availability of accommodation. In case infrastructure is not available, the Successful Bidder shall be responsible for arranging the same. The Successful Bidder shall ensure that the Personnel are available at the Plant for the entire course of Overhaul and shall take requite consent from the Owner with prior intimation through a Written Notice in case of any changes in availability of Personnel.	Staff Accommodation compulsory required as there is no facilities available in nearby area. Space for making labor Hutment should be provided inside the factory premises as plant location is very remote area.	As per RfP

58	General	The Successful Bidder shall obtain, on behalf of the owner, all necessary statutory approvals from Inspection Authorities, IBR, or other government authorities, as may be required, as per Applicable Laws at its own cost. Further, the Successful Bidder shall coordinate and arrange for hydro testing of the boilers as per IBR requirements, during the course of the Overhaul.	Statutory fee to by paid by M/s ATPS - GMDC	As per RfP

59	General	**3.1.1.6. Structural modifications** The Successful Bidder shall be responsible for necessary structural modifications including supply, fabrication, and erection of any new structure to support piping, equipment, and provision of any additional platform if required for access to new equipment, or any other structural modification works required for execution of the Overhaul to aid the completion of the works defined in Section 3.1.2 of this document.	Is any Structural Modifications required. Request to confirm the same	As per RfP
60	General	A single point electrical supply of 415V, 32/63 Amp 3 phase and single point electrical supply of 230V, 16 Amp single phase power supply point from nearest available healthy source shall be supplied to the Successful Bidder by the Owner, free of cost. The Successful Bidder shall be responsible for the provision of cables for extending power to its apparatus	1 power supply point required for each Boiler near to Boiler Location within 10 m area	As per RfP

61	General	Storage and Disposal	Request you to provide Storage Yard & Disposal yard distance with respect to Boiler	0.5 km
62	3.1.3.2. Commissioning activities	3.1.3.2. Commissioning activities The Successful Bidder shall be responsible for commissioning of the Boiler and ESP across both units of the Plant and ensuring observation for 72 hours after operationalization at full load with design parameters and continuous operation of machine, with observation of performance parameters and supervisory parameters.	Commissioning assistance will be provided by Isgec. However, it is presumed operating personal, Fuel, Power, Lubricants etc., will be provided by client for Boiler & Aux. Equipment.	As per RfP
63	RLA Report	The SH - 4 Panel become bending from their original position by 200- 300 mm in furnace Area. And recommended by M/s IRC is Alignment & proper Clamp is to be done.	It is T91 materials. We suggest to replacement of this Panel. Detail drawing is required.	Available drawings attached as part of Annexure 1 of this corrigendum.

64	RLA Report	Pittings observed in most of the pr. Parts and recommendation given by M/s IRC - Application of High temp anti corrosive paint	Is High temp anti corrosive paint application to be done for all pr. Parts? Area of application to be quantified.	Approximate area is 800 sqm.
65	RLA Report		Shared RLA report seems to be an initial observation, no any detail suggestion on replacement of any item is not given so requesting to provide detail RLA report for Unit 1 & 2.	Detailed RLA would be provided to the successful bidder.
66	**Plan 11: Lignite feeding system (Sr.no.54 to 102).**			
67	Lignite rotary air lock feeder: Gear Boc/ pinion. Wheels etc.	Details of items starting from sr.no.54 to 102	Vendor needs technical details with GA & make of equipment	Available drawings attached as part of Annexure 1 of this corrigendum.
68	**Plan 15: Valves (Clause no. 3.1.2.3)**			
69	Valves: Economizer & ring header drain valve, Startup vent MOV, SH drain MOV, IBD valve, Safety valves		Kindly provide detailed specifications & valves GAD for supply part and arranging spares for consideration. In absence of the same vendor are not supporting. Valve schedules are not available for the said items. Data Sheet attached with Corrigendum I is not relevant to these valves.	Available drawings attached as part of Annexure 1 of this corrigendum.
70	**Plan 2: Ash Handling System**			

<table>
<tr><td>71</td><td>Bottom ash draglink</td><td>Machine type: TKF400/1, Chain type:50/25/142-E, Chain width-400mm, Flight Pitch-142mm, Chain speed - 0.07m/s., Distance between conveyor center - 11369mm, Line layout - Horizontal/ inclined 40 deg. , Manufacturer - SMD Fordertechnik GmbH</td><td>Technical data sheet or drawing required</td><td>Available drawings and data sheet attached as part of Annexure 1 of this corrigendum.</td></tr>
<tr><td>72</td><td>Ash draglink conveyor: Chain link and flight</td><td>CONVEYOR CHAIN AS FORGED FORK LINK CHAIN MADE OF 20MnCr5 EQUIPPED WITH SCRAPPER EVERY 142 MM FOR ASH DRAGLINK CONVEYOR</td><td>Technical data sheet or drawing required</td><td>Available drawings and data sheet attached as part of Annexure 1 of this corrigendum.</td></tr>
<tr><td>73</td><td>Plan 12: Limestone dosing system</td><td></td><td></td><td></td></tr>
<tr><td>74</td><td>Bag filter Unit- 1: Procurement of bags</td><td>Bag Filter, Type-Pulse Jet, Capacity- 60000M3/Hr, Filter Bag Type - Pulse Jet, Size-512M1220 Ltr, Application-Bag Filter</td><td>Important details such as required filter media quality, bag filter application details etc are missing and therefore we find difficulty in selection of a suitable filter media quality for concerned bag filter application to quote. Other technical details required like air to cloth ratio, moisture %, sieve analysis of limestone, gas temp., inlet dust load etc. mentioned in the table
<table>
<tr><th>Description</th><th>Unit</th><th>Comments</th></tr>
<tr><td>Air-to-cloth ratio</td><td>Gross : m3/min/m2</td><td></td></tr>
<tr><td></td><td>Net:</td><td></td></tr>
</table></td><td>Available drawings attached as part of Annexure 1 of this corrigendum.</td></tr>
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				m3/min/m2			
75	Bag filter Unit- 2: Procurement of bags	Bag Filter,Type-Pulse Jet,Capacity-60000M3/Hr,Filter Bag Type - Pulse Jet, Size-512M1220 Ltr,Application-Bag Filter	**Dust to be handled**		**Limestone dust**		
			Operating gas temperature	**°C**			
			Design Gas temperature	**°C**			
76	Bag filter Unit- 2: Procurement of bags with retainer	Bag Filter Cage,Type-Pulse Jet,Capacity-60000M3/Hr,Filter Bag Type - Pulse Jet, Size-512M1220 Ltr, Application-Bag Filter	**Surge for a short duration of 15 minutes**				
			Dust loading - Max. design	**gm/Am3**			
			Particle distribution	**micron**			
			Presence of moisture	%			
77	**Plan 12: Compressor 1 B**						
78	Compressor- 1B: Back End Cover to Cylinder	Model No.1HA4Q, Make- KG KHOSLA	Requirement not clear, please clarify				Cover required for compressor piston
79	Compressor- 1B: Back End Cover Installation	Model No.1HA4Q, Make- KG KHOSLA	Requirement not clear, please clarify				Cover required for compressor piston
80	**Plan 12: Lime mill main gear box coupling: Procurement of Spare coupling**						
81	Lime mill-2 main gear box coupling: Gear coupling	Afg-106, Bore Size Motor Side-140Mm, Gear Box-110Mm, Key Way Size Motor Side-34X10Mm	Technical data sheet or drawing required				GEAR COUPLING,AFG-106, BORE SIZE MOTOR SIDE-140MM,GEAR BOX-110MM, KEY WAY SIZE MOTOR SIDE-34X10MM & GEAR BOX SIDE-28X8MM,APPLIATION FOR LIME MILL MAIN

				MOTOR TO GEAR BOX, drawing not available
82	Lime mill-2 main gear box coupling: Gear box side	28X8Mm, Application For Lime Mill	Technical data sheet or drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
83	**Plan 12: Compressor- 2A**			
84	Compressor- 2A: Back End Cover To Cylinder	Model No.1HA4Q, Make- KG KHOSLA	Requirement not clear, please clarify	Cover required for compressor piston
85	Compressor- 2A: Back End Cover Installation	Model No.1HA4Q, Make- KG KHOSLA	Requirement not clear, please clarify	Cover required for compressor piston
86	**Plan 12: Miscellaneous items**			
87	DE/NDE pump Unit-2: Procurement of spare pump	Type Of Pump-Gear, Capacity-20Lpm,Inlet Pressure-0.5Kg/Cm2,Discharge Pressure-8 Kg/Cm2,Application-Lop De And Nde Side,Make-DoMy	Technical data sheet or drawing required	Gear Oil pump-02 Nos., Capacity-23.6 LPM, Model No.IP-3052, Part No.H-511124106, Make- Dowty
88	Main gearbox pump Unit-2: Procurement of spare pump	Type Of Pump-Gear, Capacity-75Lmp, Inlet Pressure-0.5Kg/Cme , Discharge Pressure-5 Kg/Cm2,Connection Size-1.25"Bsp, Make- Sunrise Engineering	Technical data sheet or drawing required	Available data sheet attached as part of Annexure 1 of this corrigendum.

89	Lvalve: Procurement of ball	Ball ON-OFF valve, Soize-200 mm, 84F2, MOC-WCB/SS 304 (CF*)/PTFE Pneumatic operated , Make-Micro Finish,	Technical date sheet or below details required. 1.Design temperature for all valves. 2.Design Pressure for all valves. 3. Process media. 4. For L-Port Valve, please refer attached PDF & confirm the flow pattern. (Highlighted in red) 5. Pneumatic Actuator details 6. Minimum Air supply pressure? 7. Maximum Shut off pressure of valve for actuator sizing? 8. Air Fail Position? 9. Open / Close timing requirement? 10. Accessories required? (SOV, AFR, LSB)	Available drawings attached as part of Annexure 1 of this corrigendum.
90	HAG burner Unit-2: Procurement of spare gun	Oil Gun Assembly, Model No. 1Tj. Ref. Drawing 01948-01-B12	Burner gun technical data sheet or drawing required	Available drawings and data sheet attached as part of Annexure 1 of this corrigendum.

91	Ball valve Unit- 2: Procurement of ball	Micro finish Make Ball On-Off Valve ,Size -200 Mm 84F2 Moc : WCB/Ss 304(CF8) /PTFE Pneumatic Operated.	Technical date sheet or below details required 1.Design temperature for all valves. 2. Design Pressure for all valves. 3. Process media. 4. For L-Port Valve, please refer attached PDF & confirm the flow pattern. (Highlighted in red) 5. Pneumatic Actuator details 6. Minimum Air supply pressure? 7. Maximum Shut off pressure of valve for actuator sizing? 8. Air Fail Position? 9. Open / Close timing requirement? 10. Accessories required? (SOV, AFR, LSB)	Available drawings attached as part of Annexure 1 of this corrigendum.
92	Dilution blower Unit-2: Procurement of belts	Spa 2800, Make-Fenner	Technical details or drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
93	Screw pump Unit-2	Barrel Assembly for Screw Pump, Model No. 235 Mm Pneumatic Pump	Please provide the type of plate photo on the pump indicating IBAU project number KN. No. or the technical data sheet, drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
94	Pipe Hangers and supports (Plan -9, Annexure 4)		Please provide tag number wise GA drawings for technical details of Make-Pipe supports India Ltd., Bengal engineers Hanger & supports disc at penthouse -Technical details or GA Drawing required	Available drawings attached as part of Annexure 1 of this corrigendum.
95	**Plan 13: Pumps**			

96	Hot Water pump: motor	Hot Water pump Motor: 3-Phase, Squirrel cage induction motor, 69KW, 415Volt, 50HZ, Full load Current-112Amp, RPM-2975, Frame size - 1LA6280-2AC90 Z 280S, Mounting-Foot mounted, COS Phi-0.90, IP 55, Make SIEMENS CE, ALSTOM, MARATHON	Please provide the existing Motor sl.no & make	As per RFP
97	**Plan 13: Electrical**			
98	FA fan: FA fan cooling fan with motor	FA Fan cooling fan with motor, Type HOD 015/2 TK,Kw .350,rpm 2720,volt 415v,3 phase, FLC 1.14A, Cosphi-.70, 50Hz,Ref.Sr no 140313516, Make -HELLOS VENTILATOREN, 780 56 villingen (German) or any equipment	Please provide the existing Motor sl.no & make	Motor Make – Hellos Ventilatoren Motor Sr. No. - 140313516

99	Lignite Rotary Feeder: Spare motor	Lignite Rotary Feeder Motor :- 3-ø, Type: - KF77 DV 132 ML-4, TECH IP-55, RPM 1440/91, Amb -SF, KW: - 9.2/s1 VOL: - 240 Delta /415 Star/ Amp. 30/17.5, Hz 50, P.F 0.84, Mounting: Flange Mounting, CEIM: M1A, Ins Class H, Heating Volt: - 240v/AT, Duty: - s1, MAX 80 GRAD C/7016 4 KTR Lubricant CLP PG 220 SYNTH OIL, S.20 LTR/.8 LTR, Make: - SEW EURO DRIVE BRUCHSAL GERMANY, ALSTOM, MARATHON (One to One Replacement)	Please provide the existing Motor sl.no & make	Motor make – Sew Euro Drive Motor Sr. No – 01.00702101.0001x0
100	Soot Blower Motor		Please provide the existing Motor sl.no & make	Motor make – Bharat Bijlee Motor Sr. No – N2120639
101	TAPH: Soot blower motors	TAPH Soot Blower Motor:- 3-ø Motor, Sr No N2120639, Frame Size MA071434, Voltage 415, Amp 0 .5, Kw 0.25, RPM 1380, Mounting Flange, Make:- Bharat Bijlee, ALSTOM, MARATHON	Please provide the existing Motor sl.no & make	Motor make – Bharat Bijlee Motor Sr. No – N2120639

102	Second Pass: Soot blower motors	Second Pass Soot Blower Motor:- 3-ø Motor , Sr No K5117282 ,Frame Size 90L,Voltage 415,RPM 1416, Kw 1.1, Amp 2.5, Mounting Flange, Make :-Bharat Bijlee, ALSTOM, MARATHON	Please provide the existing Motor sl.no & make	Motor make – Bharat Bijlee Motor Sr. No – K5117282
103	**Plan 17:C&I**			
104	Lime bunker: Radar type level transmitter	Radar type level transmitter (Bidder needs to take dimension on site)	Please provide the bunker dimension	Available drawings attached as part of Annexure 1 of this corrigendum.
105	Lignite feeding system	Gravimetric Coal / Lignite Feeder	Please find attached Gravimetric Coal / Lignite feeder drawings and highlight part number with quantities required from your end so that we may collect offer from them.	Available drawings and data sheets along spare part numbers attached as part of Annexure 1 of this corrigendum.

Annexure 1: General Arrangement Drawings and Technical Data Sheets

Bidders can refer to the drawings uploaded in the below link to access the documents, drawings, and technical data sheets for Boiler and ESP.

Link:

https://gmdcltd-my.sharepoint.com/:f:/g/personal/jndave_gmdcltd_onmicrosoft_com/EuSHBcaKEVdLl0u5m8XqRnwBj9axsAOlsuWy7ifx5vmvqw?e=48ZU30