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Corrigendum - 3 dated 01/06/2026 to CPC Tender No. BHEL/CPC/TLB/EPC_AHP_MRHS/27/014 for the work of "EPC PACKAGE FOR ASH HANDLING SYSTEM PACKAGE AND MILL REJECT HANDLING SYSTEM AT 3X800MW, NLC TALABIRA THERMAL POWER PROJECT, JHARSUGUDA, ODISHA".

A) Some of the Bidders had asked queries in the published tender specification. The clarifications issued by BHEL are as below;

Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
1	NOTICE INVITING TENDER PRE QUALIFYING REQUIREMENTS (PQR) Clause B.	For Civil - Bidder/ Consortium Partner shall fulfill B.1 and B.2 in **last Seven Years** from as 27.11.2024	In all recent past tenders, the civil credentials requirement has been considered for **the last 10 years**. We request you to kindly keep the same criteria in the present tender as well, so that wider participation of bidders can be encouraged.	Tender Condition Prevails
2	NOTICE INVITING TENDER PRE QUALIFYING REQUIREMENTS (PQR) Clause B. (B.2)	Bidder/Consortium Partner should have executed not less than **20000 Cu.M of R.C.C** work in a single agreement in a year.	"Bidder/Consortium Partner should have executed not less than **10000 Cu.M of R.C.C** work in a single agreement in a year." We request for the same which ensure more participation in the bidding.	Tender Condition Prevails
3	NOTICE INVITING TENDER PRE QUALIFYING REQUIREMENTS (PQR) Clause C.	For Structural: Bidder/Consortium Partner shall fulfill C.1 and C.2 in last Seven Years from as 27.11.2024.	In all recent past tenders, the structural credentials requirement has been considered for **the last 10 years**. We request you to kindly keep the same criteria in the present tender as well, so that wider participation of bidders can be encouraged.	Tender Condition Prevails
4	Vol. II-H1, SECTION-B Ash Handling System Cl.2.01.01, Page-1 of 90	Coarse Ash collected in economizer hoppers and SCR hoppers shall also be routed to the BA hopper through flushing apparatus and further conveyed to the dewatering bin along with bottom ash.	In the flow diagram for Bottom Ash Handling system (DWG. NO. 18A03-DWG-M-AHP-001 R0) it is shown that SCR hopper ash is directly conveyed to Ash slurry sump. Kindly confirm the exact requirement.	SCR hopper ash shall be conveyed to Coarse ash tank and further to the Ash slurry sump. Refer "Annexure-10_Flow diagrams_BA & FA handling" for details

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
5	Vol. II-H1, SECTION-B Ash Handling System Cl.3.01.06, Page-5 of 90	Dewatering Bin (03 Nos. per unit)	As per flow diagram for Dry Fly Ash Dewatering Bin & HCSD System (DWG. NO. 18A03-DWG-M-AHP-002 R1), The no of dewatering bin for each unit is 4. Kindly confirm the exact requirement.	Four (4) Nos. Dewatering bin per Unit.
6	Vol. II-H1, SECTION-B Ash Handling System Cl.3.06.01, Page-11 of 90	APH hoppers Ash Handling System The coarse ash slurry thus produced shall be routed to dewatering bin by high pressure jet pumping system	We understand there should be one slurry pump which received the slurry first and then it will conveyed to Dewatering bin. Kindly confirm.	Specification is clear. Bidder to follow specification and corrigendums
7	Flow diagram for Bottom Ash Handling system (DWG. NO. 18A03-DWG-M-AHP-001 R0)	As shown in the drawing that Jet pump slurry pipe will be transport the slurry to BA Slurry Pump House.	No slurry pump house along with slurry pump is shown in the drawing. Kindly review and confirm.	One Slurry pump house per Unit is envisaged. Bidder to follow specification and corrigendums
8	13_2_Corrigendum-8_06032021 Sl. No. 5, Page-51 of 294	The storage capacity of Ash water sump and Buffer hopper are amended as below. Ash water sump 30 min. Buffer Hopper 30 min	As per vol. II-H1 Section B Page 25 of 90 (Cl.4.07.00) Ash water sump 60 min (vol). Kindly confirm	Specification is clear. Bidder to follow specification and corrigendums
9	13_2_Corrigendum-8_06032021 Sl. No. 8, Page-55 of 294	Temperature IR Camera for BA hopper is normally used for dry bottom ash system.	Kindly confirm the requirement of IR Camera.	Specification is clear. Bidder to follow specification and corrigendums
10	13_2_Corrigendum-8_06032021 Sl. No. 10, Page-28 of 294	Each discharge line from the pump house to mines & ash dyke shall be 7000m and 4000m respectively excluding fittings. In addition, 10000m pipe shall be considered for garlanding each for mines and dyke respectively	Kindly provide the exact length of each HCSD slurry discharge pipe for supply and as well as for design of HCSD pump.	Specification is clear. Bidder to follow specification and corrigendums
11	Flow diagram for Bottom Ash Handling system (DWG. NO. IS-1-FL-770-300-M003 R1)	The drawing showing the jet pump discharge pipe is going to common trough of Ash slurry pump house and also refer a drawing No.IS-1-FL-770-300-M005	We could not traced any drawing for Bottom Ash slurry pumping system. Kindly provide the same.	Drawing IS-1-FL-770-300-M005 is not available. Bidder to refer Specification and Corrigendums

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
12	Flow diagram for Bottom Ash Handling system (DWG. NO. IS-1-FL-770-300-M003 R1)	The drawing showing the jet pump discharge pipe is going to common trough of Ash slurry pump house	Plot plan No. PE-DG-100-511-M001 R 02, is showing 3 different Ash slurry pump house with MCC room for 3 units. Hence kindly clarify the "Common trough".	One Slurry pump house per Unit is envisaged. Each Slurry pump house has a common trough in the Slurry sump
13	Ash Handling system data (Annexure-9)	As per the given data, The Ash generations are as follows: - 1. Bottom Ash - 53 TPH. 2. Econimiser Ash -13.2 TPH 3. SCR hopper inlet -18.5 TPH 4. APH - 6.6 TPH 5. AH-ESP Duct hopper - 6.6 TPH 6. ESP - 238.4 TPH	However, in the specification (Vol. II-H1, SECTION-B, Cl. 4.00.00, page-24 of 90). The Ash generations are as follows: - 1. Bottom Ash - 42.4 TPH. 2. Econimiser Ash -10.6 TPH 3. SCR hopper inlet -14.9 TPH 4. APH - 5.3 TPH 5. AH-ESP Duct hopper - 5.3 TPH 6. ESP - 190.65 TPH Kindly confirm which one is correct.	Annexure-9 to be followed
14	Vol. II-G/1, SECTION-B Ash Handling System Page-15 of 118	Compressor House and Main control room	We request to provide the tentative sizes of different Ash handling buildings and silos. Namely Ash water pump house, silo utility cum HCSD building, Fly Ash silo etc.	Bidder to follow specification
15	Vol. II-G/1, SECTION-B Ash Handling System Page-16 of 118	Construction of Ash Dyke for HCSD Slurry Disposal including nearby Nallah bund strengthening	We understand that construction of Ash Dyke is excluded from this package.	Specification is clear. Bidder to follow specification and corrigendums
16	TCC (Cl.03.22)_Page 22 of 85 (Operation & Maintenance)	The operation and Maintenance of this Ash Handling & MRHS EPC package including all BHEL supplied Equipment's (if any) for this AHP package till hand over of the Ash Handling System to NLC/BHEL shall be in bidder scope	We request for fix up the time for O&M service. i.e whether O&M shall be done for 6 Month or 1 year.	Tender Condition Prevails
17	TCC (Cl.13.00) _Page 68 of 85 (Terminal Points)	Ash water recovery system pipe – AWRS Pump House outside boundary to sedimentation tank.	We understand that AWRS is excluded from this package.	Specification is clear. Bidder to follow specification and corrigendums

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
18	NOTICE INVITING TENDER PRE QUALIFYING REQUIREMENTS (PQR) Clause B.	B.1 Bidder/ Consortium Partner should have experience in carrying out civil engineering works for Industrial buildings / equipment foundations / high-rise buildings (3 storied and more) etc.	We understand the related clause refers about execution of civil works related to Industrial buildings / equipment foundations / high-rise buildings (3 storied and more) etc. Hence we request to modify the clause as under:- "Bidder/ Consortium Partner should have experience in carrying out **civil works** for Industrial buildings / equipment foundations / high-rise buildings (3 storied and more) etc."	Tender Condition Prevails
19	Refer DCPL Spec. Section B/Vol. I-B/Section-9 Performance Guarantee (Page 120 of 310) Cl. No. 9.5.2.5 Refer ANNXURE-13-A (Guaranteed Power Consumption for AHP Pkg.		Duty Factors are not matching in both the clauses. Please review and indicate the correct Duty Factors to be considered	Annexure-13A is prepared based on Corrigendums issued by NLC and same shall be followed for Duty factors.
20	Refer DCPL Spec. Section B/Vol. I-B/Section-9 Performance Guarantee (Page 109 of 310) Cl. No. 9.4.3.41		Refer Sl. No. iv to vii, stream capacity specified is not matching with capacity specified in various corrigendums. Please review and confirm capacities	Capacities shall be as per Corrigendums issued by NLC
21	Refer NIT SLD No. 1BA03-DWG-W-AHP-002 Refer ANNXURE-13-A (Guaranteed Power Consumption for AHP Pkg.		4 Nos. Dewatering are shown. But as per Annexure-13-A, Sl. No. 24, 9 Nos. Vibrating Feeders are indicated. Please review and confirm the Nos. of Vibrating Feeders	No. of Vibrating feeders shall be 24 Nos. (3W+21S)
22	Refer ANNXURE-13-A (Guaranteed Power Consumption for AHP Pkg.		Refer Sl. No. 23 of Annexure-13-A. Centrifugal Coarse Ash Pumps are indicated. Please review and confirm that same are not applicable and deleted	As indicated, Coarse ash slurry pump shall be considered if it is applicable
23	Refer NIT SLD No. 1BA03-DWG-W-AHP-001		From Jet Pump Discharge to BA Slurry Sump, individual pipe with Cyl. Optd. KGV is shown. As there is no interconnection of Pipes, Jet pump discharge valve is not required. Please confirm.	Bidder to follow specification

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
24	Refer NIT SLD No. 1BA03-DWG-W-AHP-001		At suction of BA overflow pump Plug Valve is shown. KGV is well proven at suction of BA Overflow pump. Please review and confirm whether KGV will be acceptable and inform whether this valve is manual or Cyl. Optd.	Pneumatic (Cyl.) operated KGV shall be provided at the Suction and Discharge of BA overflow pump instead of Plug valve
25	Refer NIT SLD No. 1BA03-DWG-W-AHP-001		At discharge of BA Overflow pump 3 nos. valves is shown. 2 Nos. valves at discharge of Pump is sufficient. Please confirm.	Bidder to follow specification
26	Refer NIT SLD No. 1BA03-DWG-W-AHP-001		At discharge of BA Overflow pump check valve valves is shown. As BA Overflow water is ash contaminated water, check valve is not recommended. Pls confirm.	Bidder to follow specification
27	Refer NIT SLD No. 1BA03-DWG-W-AHP-002		2 Nos. (1W+1S) Sludge pump is shown below common sedimentation tank and common surge tank. Please confirm that 2 Nos. (1W+1S) sludge pumps would be acceptable which would be common for both Sedimentation tank and surge tank in line with proven practice of NTPC	Bidder to follow specification
28	Refer NIT SLD No. 1BA03-DWG-W-AHP-002		Fly ash feedeing to HCSD mixing tank is shown for one tank only. Please confirm Fly Ash Feedeing will be applicable for both the tank from FA silos	Specification is clear. Bidder to follow specification
29	Refer NIT SLD No. 1BA03-DWG-W-AHP-003		1 No. stack hopper is shown for manual collection of ash. Pls confirm that stack hopper is applicable for this project.	Stack hopper is applicable

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
30	Refer NIT SLD No. 1BA03-DWG-W-AHP-003		Vacuum Pump seal water is shown from AHP seal water pumps. As seal water pressure requirement is on very lower side, please confirm that purchaser supplied service water can be used for vacuum pump sealing.	Bidder to follow specification
31	Refer NIT SLD No. 1BA03-DWG-W-AHP-005		1 No. flushing water pump is shown with suction from Ash Water Sump. As per Technical Specification/ Corrigendum, it is indicated that Flushing water pump can be installed in HCSD pump house. Please review and confirm.	Bidder to follow specification
32	Refer NIT SLD No. 1BA03-DWG-W-AHP-006		Discharge of Drain connection from Suction Strainer to ART tank is shown. Please note that to discharge to ART Pumping is required which is not shown. We suggest to discharge the same to nearest drain. Please review and confirm.	Bidder to follow specification
33	Refer NIT SLD No. 1BA03-DWG-W-AHP-007		Arrangement shown below APH & DUCT hoppers. Please confirm that arrangement below APH & DUCT hoppers would be as per proven practice of Bidder.	Bidder to follow specification

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
34	ANNEXURE-3-ELECTRICAL, CONTROL AND INSTRUMENTATION SCOPE MATRIX FOR 3X800 MW NLC TALABIRA Sr no-5	1. 24V DC and UPS system (UPS load and 24V DC load applicable to BHEL free supplied equipments shall be shared to successful bidder during detailed engineering by BHEL-EDN. Bidder to size the rating of UPS and DC system considering the above load plus any load required for bidder supplied equipments.)	Bidder understand that after giving required input from Bidder's side, Design/ engineering and supply of DC & UPS System is under BHEL scope. Bidder also understand that 24VDC supply derived from UPS supply through SMPS. Please confirm.	Bidder understanding is not correct. Scope matrix is clear. Bidder to follow the specifications.
35	ANNEXURE-3-ELECTRICAL, CONTROL AND INSTRUMENTATION SCOPE MATRIX FOR 3X800 MW NLC TALABIRA Sr no-5	4. Any logic modification during commissioning stage shall be executed by EPC bidder.	Bidder understand that Block Logic Diagram of Ash Handling System shall be provided by EPC Vendor & Logic Developed by BHEL -EDN during commissioning.	Scope matrix is clear. Bidder to follow the specifications.
36	ANNEXURE-3-ELECTRICAL, CONTROL AND INSTRUMENTATION SCOPE MATRIX FOR 3X800 MW NLC TALABIRA Sr no-5	8. Bidder to coordinate with BHEL-EDN before finalisation of field bus based instruments/ actuator regarding communication protocol.	Bidder understand that as per NIT-VOL-II-E-CL NO 8.02.01 Instrumentation sensing, transmission, measuring and computing system shall be solid-state electronic type. Field process transmitters shall be smart (HART based) type. Please confirm.	Scope matrix is clear. Bidder to follow the specifications.
37	ANNEXURE-3-ELECTRICAL, CONTROL AND INSTRUMENTATION SCOPE MATRIX FOR 3X800 MW NLC TALABIRA Sr no-14b	1. Design & Supply of 3DLS/NOGS system along with Power Supply & all mounting arrangement for mounting in ESP Hoppers	Bidder understand that supply of 3DLS / NOGS system along with Power supply shall be supplied by BHEL for ESP 1st field to ESP 3rd Field Only. Please confirm.	Bidder understanding is not correct. Scope matrix is clear. Bidder to follow the specifications.

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
38	5-Annexure-6-Part-2 -Vol-II_E	8.02.10 Level Transmitters shall be provided on process equipment where continuous remote monitoring and/or control of level is envisaged. Wherever necessary standpipes or float chambers shall be provided	Bidder considered - Radar Type Level Scanner for Fly Ash Silo & Dewatering Bin for continuous measurement. Please confirmed.	Bidder to follow the specifications.
39	ANNEXURE-3-ELECTRICAL, CONTROL AND INSTRUMENTATION SCOPE MATRIX FOR 3X800 MW NLC TALABIRA Sr no-10	Adequate nos. of cable trays and tray support from Main Power House MV Swgr room to C-row pipe cum cable rack upto Column number-1 shall be provided by BHEL for bidder's scope of 11kV Cables for feeding the 11kV AHP Switchboard. During contract stage, Vendor will provide the number of cable trays required along with their loading details as input to BHEL.	Bidder understand that based on Bidder's requirement BHEL will provide cable trays and tray support from Main Power House MV Swgr room to C-row pipe cum cable rack upto Column number-1, Please confirm.	Tender condition is clear
40	Annexure-2A_ Scope Matrix - MRS (Civil & Electrical) Pg 5 of 6	Mill Reject System	Bidder understand that, Other than the Cabling, Motors, Lighting (In control Room, if any), Cable Tray (For both end equipment in Vendor's scope, all the engineering & supply is in Bhel Scope, please confirm.	Please refer Annexure 2A. The entire scope of supply, services, works for completion and satisfactory performance of MRHS system in line with the requirement of End User's specification shall be in the scope of bidder. Only the items marked in BHEL scope shall be treated as exclusion.

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
41	Vol.II-H1 clause 5.30.00 page 66 of 90	Conveying pipe from ESP to Buffer Hopper: Alloy CI as per BS:1211 & IS:1536, min. 450BHN hardness	Please note that Alloy CI pipes are not available in the market. In case you have any details of a manufacturer please share with us. Kindly note, we have been supplying only plain CI pipes for all NTPC and BHEL projects for several years. Gravity Cast ACI pipes on Max. 1.5M length are available but that will lead to provision of extra couplings which will affect the system performance. We suggest BHEL take-up this matter with owner and change the pipe to Plain Spun CI pipe as in case of other projects.	Ash conveying pipe from ESP to Buffer hopper shall be CI Pipe as per BS:1211 & IS:1536, minimum 450 BHN hardness
42	Vol.II-H1 clause 5.30.00 page 66 of 90	Conveying pipe from Buffer Hopper to Silos: ASTM A106 Gr, B Carbon Steel seamless sch. 80	Please check the requirement. Normally it should be MS ERW 9.5mm thk. Seamless pipe is normally used for 150NB and below for high pressure system.	Bidder to follow specification
43	Vol.II-H1 clause 5.30.00 page 66 of 90	Conveying pipe fittings from Buffer Hopper to Silos: Min. 25 mm thk. Ceramic	Please check the requirement as in all the projects the fittings are of Alloy CI or Basalt lined. Please accept the same.	Bidder to follow specification
44	Vol.II-H1 clause 5.29.01 page 65 of 90	Bottom Ash and coarse ash slurry pipes/Fittings	We have noted that the piping shall be basalt lined please note that the fittings will also be basalt lined instead of 25 thk. Ceramic lined for ease of erection. Please confirm that basalt lined bends are also acceptable.	Bidder to follow specification
45	Corrigendum 3 between owner and BHEL, Clause no. 69/70, sheet 26/27 of 40	…Each pump shall be provided with 2 discharge lines …	Please refer this clause. This means there will be 12 pipes from the HCSD pump house upto the 2 dykes. However, BHEL plot plan shows diversion after the bridge crossing. Please confirm requirement.	Specification is clear. Refer Corrigendum No.28 issued by NLC for details.

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
46	General	Discharge valves at pump outlet	Please note that the pressure requirement for pumping HCSD slurry upto 12 KM with 40 M static rise will be approx. 100 bars. Please note that valves to take care of such high pressures are not available. We propose to provide separate spool pieces to take care of the requirement of diversion.	Specification is clear. Bidder to follow Specification and Corrigendum
47	Corrigendum 3 between owner and BHEL, Clause no. 70, sheet 27 of 40	Pipe pedestal for 12 pipes with 1M height from FGL	Please check the requirement with respect to BHEL spec which says 6 pipes upto diversion after bridge crossing. Please re-confirm your requirement.	Specification is clear. Refer Corrigendum No.28 issued by NLC for details.
48	Corrigendum 3 between owner and BHEL, Clause no. 18, sheet 32 of 40	Approach road	Approach road as mentioned in the corrigendum is in whose scope. The scope is silent on this. Please clarify.	Road referred in query question is marked under Red Highlighted portion as per Annexure-17. Approach Road (4 M wide BT road and drains & shoulder as per technical specification) from plant to Mine void/ ash dyke along HCSD Pipeline will be in Bidder's scope.
49	Corrigendum 3 between owner and BHEL, Clause no. 18, sheet 33 of 40	1000M nallah bund strengthening	We understand that this Nallah Bund Strengthening is in others scope and not AHP bidders' scope. Please confirm.	Please refer corrigendum 28 for clarification.
50	Site Visit	Silo and Hydrobin area	We request you to kindly not carry out the land filling this the Hydrobin and silo area as this area will require piling.	May be taken up with Site team during execution.
51	Pipe rack/Pipe culverts in HCSD disposal line		Please confirm the number of pipe racks/pipe culverts envisaged in the Slurry disposal lines.	Bidder to follow specification

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
52	Site Visit		During the site visit it was only possible to see the area upto the NLC mine boundary. Please let us know how it is proposed or envisaged by you to route the pipes inside the NLC mines.	Bidder to refer Specification and Corrigendum for details. The terminal point of HCSD slurry in mine void shall be provided during detail engineering
53	Design Memorandum	HCSD Pumping :256 TPH	Please confirm that out of 256 TPH, BA will be 44 TPH and FA will be 212 TPH in line with the corrigendum.	Specification is clear. Bidder to refer Specification and Corrigendum.
54	Design Memorandum clause 03.09.00, pg 5 of 9	Air to ash ration for vac. Pump : 1:15	Please note that the Material to air ration depends on the bidder's calculation which is proprietary. It varies with distance of conveying and the number of bends. Hence 1:15 is not applicable	Bidder to follow specification and Corrigendum
55	Design Memorandum clause 03.10.00, pg 5 of 9	Max. no. of Cycles : 20	We have noted that the no. of cycles is 20 and not 12 as mentioned in H1	Noted
56	Vacuum pumps and ESP/Buffer Hopper Fluidizing Blowers	Location	It is not clear from the specification where the Vacuum Pumps and the Blowers will be placed. Please clarify if they have to be places=d in compressor house of below the ESP inlet funnel adjacent to the Buffer Hoppers.	Specification is clear. Bidder to follow specification and corrigendum
57	HCSD Piping	HCSD pump is to be designed for 12KM route length	We have noted that the HCSD pump is to be designed for 12 KM route length. Please confirm the total length of pipe to be considered in the Bidder's scope for supply. There is no clarity in the specifications.	Details are available in specification and corrigendum. Bidder to follow the same.
58	Vol.II-H1 clause 3.03.21 page 10 of 90	… provision shall be there for shifting discharge points from …	This is possible by provision of spool pieces at various locations to be connected at time of change instead of providing hammer blind plate valves mentioned in clause 3.08.39.	Bidder to follow specification

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
59	Vol.II-H1 clause 5.26.63 page 10 of 90	MOC for BA slurry Pumps	The MOC for BA Slurry Pump is not furnished in the said clause. Please furnish the same.	Refer Corrigendum for details
60	Corri. 8, clause 3, page 181 of 297	Total HCSD pipe to be supplied	As per this clause the total pipe works out as 86000M. Please check and confirm.	Specification is clear. Bidder to refer Specification and corrigendum
61	Flow Diag. 18A03-DWG-M-AHP-005 rev. 0 and Corri. 37, pg. 106/113	Location of Eco. Water Pump	The flow diagram mentions location of Eco. Water pump in Boiler area taking suction from LP Water Header where as in the corri. It is mentioned that the pumps should be located in the Ash Water Pump house. Please clarify.	Eco water pump shall be located in Ash water Pump house
62	Corri. 37, Clause no. 110 and 115 pg. 106/113	SCR Hoppers stands deleted.	Please confirm if SCR hoppers are same as Eco. By-pass hoppers which stands deleted and not to be considered.	Ash evacuation from SCR hoppers (Economiser outlet) shall be considered in bidder's scope
63	Corri. 37, Clause no. 119 pg. 107/113	.. tapped from BALP …	Please confirm whether the Eco Water pumps will take suction from LP Header or sump and the location f the pumps.	Eco water pump shall be located in Ash water Pump house
64	TCC	Payment Terms: SUPPLIES: (c) Intermediate Payment- 8% Price shall be released on achievement of intermediate milestone events as mentioned here under:	This additional retention of 8% (this total retention of 18%) will be affecting the cash flow for this project. Hence request to delete this retention and increase the payment at (a) from 62% to 70%	Tender Condition Prevails

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
65	TCC	Payment Terms: INSTALLATION SERVICES: excluding Civil and Structural Portion: (b) For C&I: 80% payment shall be released on pro-rata basis (as per the mutually agreed billing schedule) detailed below:	80% mentioned seems to be an error, it should have been 90%. Please clarify	Tender condition Prevails. Please refer clause 07.04.01 b) of TCC
66	Annexure-5	Refer Annexure-5_NLC AHP Flow diagrams:	Flow Diagram for BA Slurry System is not available in the Tender Spec. Please provide the same.	All available flow diagrams are already uploaded. Separate Flow Diagram for BA Slurry System is not available. Refer Tender specification and Corrigendum for details
67	Sl. No./Chapter: 1 of Broad Scope Matrix & Terminal points for EPC PKG-Ash Handling Plant & Mill Reject Handling System (Annexure-2)	Remarks AHP: Broad scope starts from (ii) the boiler furnace bottom (Scallop bar and seal plates are in BHEL's scope). Ash handling system flow diagram and plot plan are enclosed Annexure 5	Annexure-5: Owner Spec flow diagrams Annexure-10: BHEL's flow diagrams Kindly confirm which set of drawings to be followed, as per Annexure-5 or Annexure 10. Against Annexure-10, foll. Drawings are missing, please furnish the same: (i) IS-1-FL-770-300-M005 (ii) IS-1-FL-770-300-M006 (iii) Flow Diagrams for HCSD System, Ash Water System, BA Slurry System, etc.	Refer Clause 03.06 3) of Technical conditions of Contract [TCC] for clarity on Flow diagrams. In Annexure-10, Flow diagrams of only Bottom ash handling system and Fly ash handling system is available. Other Flow diagrams are not available
68	Sl. No./Chapter:5 Broad Scope Matrix & Terminal points for EPC PKG-Ash Handling Plant & Mill Reject Handling System (Annexure-2)	Remarks 3. Necessary hook up linkage to the main plant (if required) shall be done by EPC-vendor.	Kindly elaborate on the requirement for hook up linkage to the main plant.	All necessary supply, services, works for integration of the system to main plant shall be in the scope of Bidder.

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
69	Sl. No./Chapter:5 Broad Scope Matrix & Terminal points for EPC PKG-Ash Handling Plant & Mill Reject Handling System (Annexure-2)	Remarks 4. EPC Package vendors can take tap-offs from the fire water lines run by PE&SD in BTG area, as required by them, by suitable arrangement. Package vendors to boost the fire water, if pressure furnished by PE&SD is not adequate, by their own booster pumps.	1. Kindly furnish the location of the terminal point /tapping for fire hydrant line and MVW Spray line in the plot plan for design & estimation of fire protection system required for ash handling system. Also kindly furnish the available flow and pressure at the terminal point for fire hydrant line as well as MVW Spray line.	For fire protection system required for ash handling system: The available flow and pressure at terminal point (TP-01, near AHP MCC -1 CONTROL ROOM (SL NO 50 OF Plot plan) as follows: 1. Hydrant line: 9 kg/cm2 2. Spray line: 9 kg/cm2 at 410m3/hr The available flow and pressure at terminal point (TP-02, near pretreatment plant (sl no 95 of plot plan) as follows: 1. Hydrant line: 9 kg/cm2 **A sketch is attached as annexure 01 (attached along with this corrigendum) for details of the terminal point.** Notes: Main hydrant pumps working (3 x 410 m3/hr)
70	Sl. No./Chapter:14 Broad Scope Matrix & Terminal points for EPC PKG-Ash Handling Plant & Mill Reject Handling System (Annexure-2)	Remarks Sewarage network / system shall be developed for AHP buildings by Ash Handling Plant vendor. Network consists of underground piping connected to Collection/Lifting pits, all in Ash Handling Plant vendor scope.	Bidder will consider the sewarage collection/ lifting pit to be located within 5m from the respective ash handling building. Bidder's scope will be terminated upto those sewarage collection/ lifting pit from the respective ash handling facilities. Sewarage collection/ lifting pit and further transfer of sewarage will be in BHEL scope. Kindly confirm.	Entire sewerage system including network/connection, Collection pit shall be in the scope of Bidder

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
71	Sl. No./Chapter:17 Broad Scope Matrix & Terminal points for EPC PKG-Ash Handling Plant & Mill Reject Handling System	Remarks Dismantling of Existing Structures/Buildings for execution of AHP facilities	Please provide the details of HCSD slurry route corridor to the mines. Whether Dismantling of Existing Structures/ Buildings in this corridor (if any) is in AHP bidder's scope. Please clarify.	Ash slurry corridor is shown in the Plot plan. Specification is clear. Bidder to follow specification and corrigendum. Bidder to visit site for details.
72	Sl. No./Chapter:8 of Broad Scope Matrix & Terminal points for EPC PKG-Ash Handling Plant & Mill Reject Handling System (Annexure-2)	Road & Drain: Remarks: The scope of road & drain shall cover for ----------. Bidder to refer Roads and Drains Layout attached along with the specifications as Annexure-17.	Roads & Drains earmarked for AHP scope shall be as per Annexure-17 (Road and Drains for AHP & CHP). Scope of road culverts for HCSD pipeline is not defined. Bidders understand that the same is part of Road scope within respective battery limits as per Annexure-17. Approach Road (4 M wide BT road and drains & shoulder as per technical specification) from plant to Mine void/ ash dyke along HCSD Pipeline, bidder understand is not in bidder's scope. Please confirm. If same is in bidder scope, then please provide the Road and Drain Layout along HCSD Pipeline and grade level.	*All roads in the Red highlighted area are in the AHP scope of bidder including approach roads to AHP facilities. *Road culvert required for HCSD Pipe line are under Bidder's scope. * Area under question is also marked under Red Highlighted portion as per Annexure-17. Approach Road (4 M wide BT road and drains & shoulder as per technical specification) from plant to Mine void/ ash dyke along HCSD Pipeline will be in Bidder's scope. *Bidder to follow Technical specifications, clarifications and amendments issued by NLC for details of road work. Bidder to visit site for additional details.
	S. No.: 1969 & 1970 of Corrigendum-29 (Page: 11 of 12)	Purchaser Reply: For clarity bidder to note that Inspection cum Approach Road (4 M wide BT road and drains & shoulder as per technical specification) from plant to Mine void/ ash dyke along Ash Pipeline is in bidder's scope. Bidder to note that the width of 4 M BT road is for BT road only which is not inclusive of drains and shoulders.		

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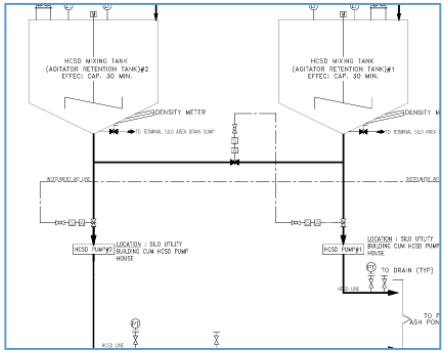
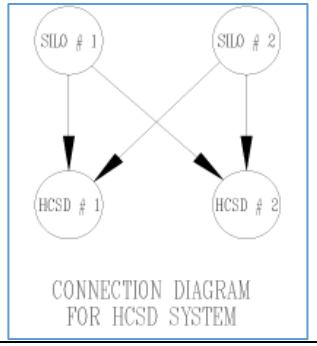
Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
73	Annexure-5_NLC AHP Flow diagrams	 	Please clarify the requirement of interchangeability.	Bidder to follow specification.

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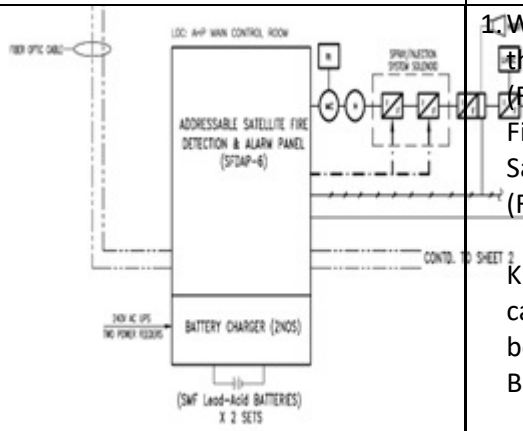
Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
74	Fire Detection & Protection System (FDPS) Configuration Diagram [Dwg No. 18A03-DWG-I-0011, Sh 1, 2 & 3, Rev 0]		1. We understand from the referred drawing that Satellite Fire Detection & Alarm Panel-6 (FDAP-6) will be interconnected with Satellite Fire Detection & Alarm Panel-7 (FDAP-7) and Satellite Fire Detection & Alarm Panel-8 (FDAP-8) via redundant fire optic cable. Kindly confirm if interconnecting fire optic cables between FDAP-6 & FDAP-7 and between FDAP-6 & FDAP-8 are in the scope of BHEL. 2. Refer to the said drawing kindly confirm 1. if Battery & Battery Changer for the aforesaid panel are in the scope of bidder? 2. if 240V AC UPS connection to the FDAP-6 are in the scope of BHEL. In such case kindly furnish the terminal point.	1.Redundant fiber optic cables between FDAP-6 & FDAP-7 and FDAP-6 & FDAP-8 shall be in AHP bidder scope. 2.Power required for all panels which are placed in AHP MCC rooms shall be in the scope of Bidder.
75	Clause No.: 3.03.05, Page 13 of 141, Vol. II-J/Section-II/Sub Section-II-A Fire Detection & Protection System,	Alarm Panels 7. Satellite Fire Detection & Alarm Panel-6 — AHP Main Control Room	Kindly confirm if Satellite Fire Detection & Alarm Panel-6 will be in AHP Bidder's scope.	Fire Detection & Alarm Panels in all AHP Buildings (as required) shall be in AHP Bidder scope.

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Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
76	S. No.- 2 of Annexure-3, Electrical, Control and Instrumentation Scope Matrix	Remarks: Quantity & location of MCC building marked in plot plan is tentative only. ----------earth grid is in bidder's scope. Please refer plot plan Annexure-4 for further details	No Electrical Building is suggested for the Silo Utility Building cum HCSD Pump house area. We propose one APH MCC room in this area to take care of loads in this area. Kindly confirm.	Bidder to decide the qty and location of MCC buildings without disturbing other facilities of BHEL.
77	Plot Plan Annexure-4	AHP-MCC-2 building number 98 is indicated near Unit#2, by indicating the ASPH & ESP Area.	Kindly confirm that the same will cater all three (3) Units ASPH & ESP/Buffer Hopper Area loads.	Bidder to decide the qy and location of MCC buildings without disturbing other facilities of BHEL.
78	S. No.- 5 of Annexure-3, Electrical, Control and Instrumentation Scope Matrix	Remarks S. No. 6: Complete PLC system, for HCSD System and any other PLC operated equipment, including its HMI, UPS, PC, printers, battery, battery charger etc.	The HCSD system shall be operated, monitored, and controlled through the DCS RIO. However, a skid-mounted PLC with standard accessories shall be supplied by the HCSD pump vendor for pump operation and local control functions. Necessary hard-wired and soft signals shall be exchanged between the skid-mounted PLC and the DCS for monitoring, control, interlocks, and status indications. Kindly confirm.	PLC is not applicable for HCSD. Complete AHP shall be controlled through DCS. The same shall be informed to all Bidders.

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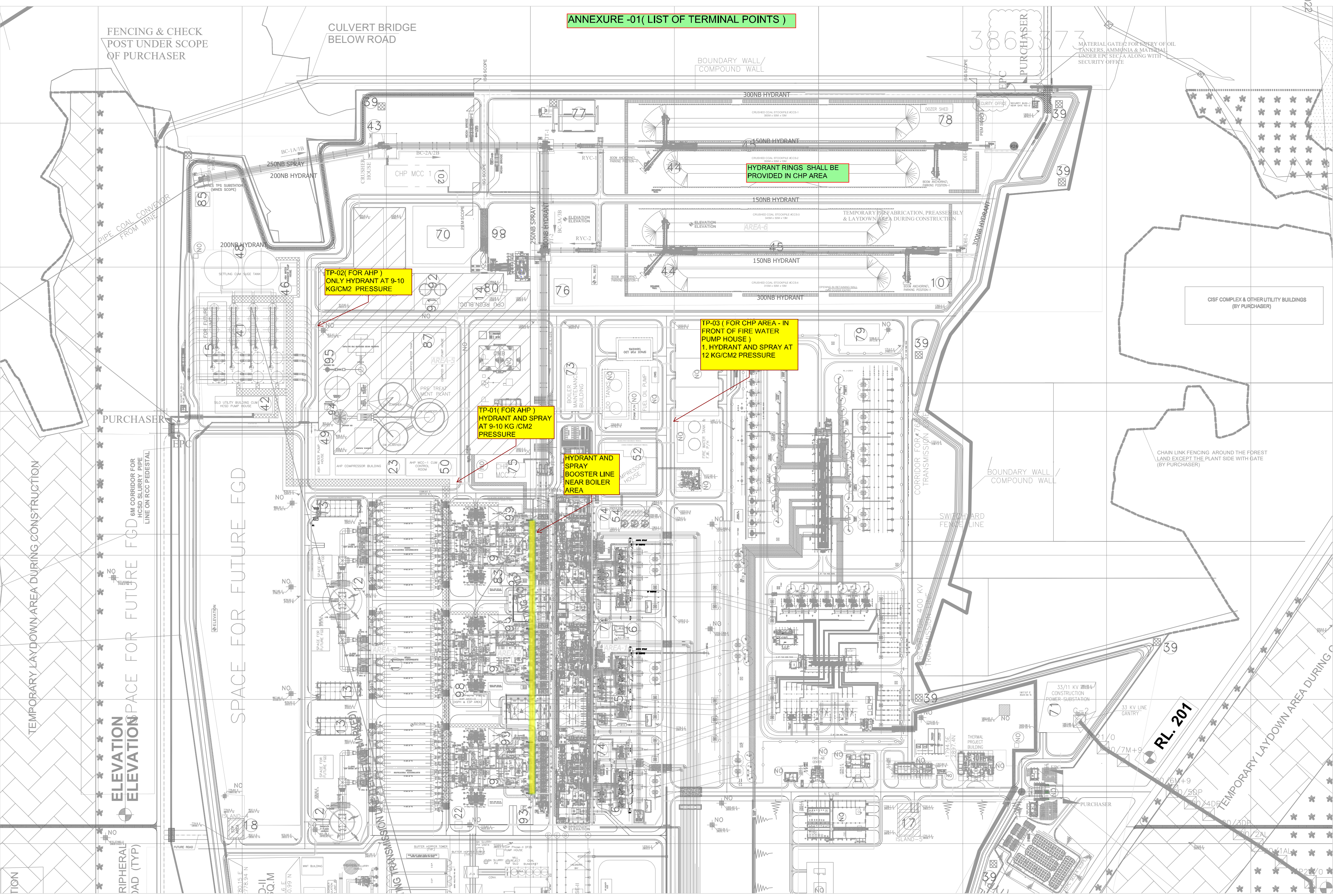
Sl. No.	Section/ Clause No	Specification/ Existing Provision	Bidder's Query	BHEL Clarification
79	Plot Plan	Bottom Ash Slurry Pipeline from BAH to BASPH	We understand that AHP Pipelines (BA, FA, Air, Water etc.) and cable trays from Buffer Hopper up to Hydrobin/ FA Silo shall be on Duct Supporting Structure (between boiler and ESP) and AHS Pipe Rack. Duct supporting structure between boiler and ESP shall be supplied by others. Please clarify whether our understanding is correct. If yes, please provide a clear corridor for AHP Pipe and cable tray on duct supporting structure between boiler and ESP. Also specify the supply scope for secondary steel support for AHP Pipe and cable tray.	Bidder to plan Separate Pipe/Cable rack for AHP. During detail engineering, support for some of the AHP pipe/cable rack structure may be taken on the Duct supporting structure, subject to technical feasibility.
80	Annexure-18_Preliminary Geotechnical Investigation report	Refer Geotechnical Investigation Layout	Geotechnical Investigation report for only 04 nos. Bore Holes (BH 01, 10, 25, and 36) is available. Geotechnical Investigation report for Ash Handling System area like FA Silo/ Hydrobin/ Settling cum Surge Tank/ Silo Utility Building cum HCSD Pump House/ AHP Pipe rack corridor/ AHP Buildings/ Slurry Pump House etc. are not available. Please provide the Soil report of above said area.	Please refer Geotechnical Investigation report as per Annexure 18 of TCC of Tender.

1) **All other terms and conditions against this NIT shall remain unchanged.**
2) **This corrigendum is to be submitted duly signed and stamped along with the Techno-commercial bid (Part- I).**

for BHARAT HEAVY ELECTRICALS LTD
Sr. Manager/ SCT


ANNEXURE -01(LIST OF TERMINAL POINTS)
FENCING & CHECK POST UNDER SCOPE OF PURCHASER
CULVERT BRIDGE BELOW ROAD
BOUNDARY WALL/ COMPOUND WALL
MATERIAL GATE-2 FOR ENTRY OF OIL TANKERS, AMMONIA & MATERIAL UNDER EPC SEC. A ALONG WITH SECURITY OFFICE
PURCHASER
300NB HYDRANT
150NB HYDRANT
HYDRANT RINGS SHALL BE PROVIDED IN CHP AREA
250NB SPRAY
200NB HYDRANT
250NB SPRAY
300NB HYDRANT
CHP MCC 1
PIPE COAL CONVEYOR FROM MINE
TEMPORARY PREFABRICATION, PREASSEMBLY & LAYDOWN AREA DURING CONSTRUCTION
CISF COMPLEX & OTHER UTILITY BUILDINGS (BY PURCHASER)
TP-02(FOR AHP) ONLY HYDRANT AT 9-10 KG/CM2 PRESSURE
TP-03 (FOR CHP AREA - IN FRONT OF FIRE WATER PUMP HOUSE) 1. HYDRANT AND SPRAY AT 12 KG/CM2 PRESSURE
TP-01(FOR AHP) HYDRANT AND SPRAY AT 9-10 KG /CM2 PRESSURE
HYDRANT AND SPRAY BOOSTER LINE NEAR BOILER AREA
PRE TREATMENT PLANT
BOILER MAINTENANCE BUILDING
FUEL OIL PUMP
COMPRESSOR HOUSE
CHAIN LINK FENCING AROUND THE FOREST LAND EXCEPT THE PLANT SIDE WITH GATE (BY PURCHASER)
SWITCHYARD FENCE LINE
CORRIDOR FOR 765 KV TRANSMISSION
CORRIDOR FOR 400 KV TRANSMISSION LINE
SPACE FOR FUTURE FGD
TEMPORARY LAYDOWN AREA DURING CONSTRUCTION
6M CORRIDOR FOR HCSD SLURRY PIPE LINE ON RCC PEDESTAL
33/11 KV CONSTRUCTION POWER SUBSTATION
33 KV LINE GANTRY
THERMAL PROJECT BUILDING
RL. 201
AHP COMPRESSOR BUILDING
ASH WATER PUMP HOUSE
SILO UTILITY BUILDING CUM HCSD PUMP HOUSE
SETTLING CUM SLUDGE TANK
DOZER SHED
SECURITY OFFICE
EPC