

Corrigendum – X- dated 19/01/2026 to CPC Tender No. BHEL/CPC/KOD/EPC-DBA/26/035

Corrigendum – X, dated 19/01/2026 to CPC Tender No. BHEL/CPC/KOD/EPC-DBA/26/035 - Dry Bottom Ash Handling System-EPC Package (Package-I) of Unit#3 & Unit#4 at 2x800 MW DVC Koderma Ph-II, Jharkhand.

A) Modification in TECHNICAL CONDITIONS OF CONTRACT (TCC) Volume-IA: Following clauses are hereby modified in TCC:

Sl. No.	EXISTING CLAUSE		REVISED CLAUSE	
	Clause No.		Clause No.	
1	TECHNICAL CONDITIONS OF CONTRACT (TCC) Annexure-3 of TCC	DBA Flow Diagrams with Scope Demarcation-Rev 2A	TECHNICAL CONDITIONS OF CONTRACT (TCC) Annexure-3 of TCC	Please find revised Flow Diagram for Bottom Ash, Coarse Ash and HCSD System with Scope demarcation of Interface portion between Package-I and Package-II. However, bidder shall read the specification and scope matrix for detail scope.
2	TECHNICAL CONDITIONS OF CONTRACT (TCC) Annexure-9 of TCC Broad Scope Matrix	SI No-3.1- Remarks 1. Vent Filter and Pressure relief valve for BAIM Silo is in Main Ash Handling Package Vendor (Package-I) scope. Load of the Vent Filter shall be provided during detail engineering. 2. Supply & Fixing of Monorail beam for Belt Conv at BAIM silo unloading floor is in package-I. However, the supply of the hoist for the same is included in Package-II.	TECHNICAL CONDITIONS OF CONTRACT (TCC) Annexure-9 of TCC Broad Scope Matrix	SI No-3.1- Remarks 1. Vent Filter and Pressure relief valve for BAIM Silo is in Main Ash Handling Package Vendor (Package-I) scope. Load of the Vent Filter and Pressure Relief Valve shall be provided during detail engineering. 2. Pressure Pneumatic Conveying Pipeline (from APH/DUCT/ECO Outlet) will not directly terminated at the top of BA Intermediate Silo and it will be via a Surge Hopper (of suitable capacity) to isolate the Conveying Air from the BA Intermediate Silo. Load of the Surge Hopper shall be provided during detail engineering. 3. Bidder shall consider the load of Vent Filters, Pressure Relief Valves and Surge Hopper during design of Bottom Ash Intermediate Silo. 4. Supply & Fixing of Monorail beam for Belt Conv at BAIM silo unloading floor is in package-I. However, the supply of the hoist for the same is included in Package-II.

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	Clause No.		Clause No.	
3	TECHNICAL CONDITIONS OF CONTRACT (TCC) Section-VI, Part B, Sub. Sec A-02, Cl.3.09.00, page 9 of 66 of Annexure-6 Part-1 TCC	Suitable Temperature Monitoring System.... of thermocouples should be provided for Bottom Hopper.....	TECHNICAL CONDITIONS OF CONTRACT (TCC) Section-VI, Part B, Sub. Sec A-02, Cl.3.09.00, page 9 of 66 of Annexure-6 Part-1 TCC	Bidder shall consider suitable temperature monitoring system of required numbers of thermocouples in Bottom Ash Hopper in the scope of supply. The exact location and number of thermocouples shall be finalised with BHEL/DVC during detail engineering.
4		New Clause	Addendum	Please find DVC Amendment No 6 (Annexure-1) to bid specification . Bidder to follow the revised flow diagram for DBA System and technical points as applicable for DBA System.
5	Flow Diagram of Bottom Ash, Coarse Ash Handling System and HCSD System (Drg No-3112-108-POM-A-910)	Ash from Eco Metallic Belt Conveyor discharge in 2 nd Stage Dry Ash Conveyor.	Flow Diagram of Bottom Ash, Coarse Ash Handling System and HCSD System (Drg No-3112-108-POM-A-910)-Rev 03	Ash from ECO Metallic Belt Conveyor shall be discharged in 1st or 2nd Dry Ash Conveyor or BAIM Silo directly (as applicable) as per proven design of OEM as well as suitability of layout. Accordingly, conveyor capacity shall be decided as follows: <ol style="list-style-type: none"> 1. The Capacity of Dry Bottom Ash System Conveyor (without ECO ash) is 108 T/h. 2. The Capacity of ECO Ash Conveyor is 21.5 T/h. 3. The Capacity of dry bottom ash conveyor (including ECO ash) shall be 129.5 T/h.
6	Flow Diagram of Bottom Ash, Coarse Ash Handling System and HCSD System	--	Flow Diagram of Bottom Ash, Coarse Ash Handling System and HCSD System	Bidder shall read as Motorized Flap Gate in place of Motorized Gate indicated in the provision of manual dumping to ground of Flow Diagram BA, CA and HCSD System-Rev 03 (Annexure-2) .

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	Clause No.		Clause No.	
	(Drg No-3112-108-POM-A-910)		(Drg No-3112-108-POM-A-910)-Rev 03	
7	Sl. no. 6 of Section C- (Some of the Bidders had asked queries in the published tender specification) of Corrigendum-V	Tentative Layout is enclosed (Annexure-1 to Corrigendum-V)	Sl. no. 6 of Section C- (Some of the Bidders had asked queries in the published tender specification) of Corrigendum-V	<p>Bidder to note that the provided layout of DBA System and ECO system is tentative.</p> <p>As per Clause 02.02.00 of TCC Volume-IA (Page 6 of 106) successful bidder shall do the complete site survey immediately after received the LOI and physically measure the coordinate of DBA System utilities at site in presence of BHEL and DVC before start the engineering to avoid/mismatch with the existing structure.</p> <p>Then after site survey bidder shall submit the Layout of the DBA System in 2D as well as in 3D for review/ acceptance from BHEL and DVC.</p> <p>In present layout, the 2nd stage Eco Conveyor at EL 1800 mm shall shift approx. 2500 mm towards west to avoid fouling with coal pipe.</p> <p>The routing of discharge pipe/chute from 2nd Stage ECO conveyor to Dry Bottom Ash Conveyor shall be finalised during detail engineering.</p> <p>Other interface issue (if any) shall be discussed and finalised during detail engineering.</p> <p>Hence, Bidder shall submit the revise/final layout to avoid the fouling/mismatch with existing structure/utilities during detail engineering without any extra cost and time implication with BHEL.</p>

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Sl. No.	EXISTING CLAUSE						REVISED CLAUSE									
	Clause No.						Clause No.									
8	(Page 7 of 2132) Sl. no. 8 of Corrigendum-IV dated 16/12/2025	Bottom Ash Data-Predicted:						(Page 7 of 2132) of Corrigendum-IV dated 16/12/2025	Bottom Ash Data-Predicted:							
		Guaranteed Loads		100% TMCR Design Coal	55% TMCR Design Coal	100% TMCR Worst Coal	100% BMCR Design Coal		100% BMCR Worst Coal	Guaranteed Loads		100% TMCR Design Coal	55% TMCR Design Coal	100% TMCR Worst Coal	100% BMCR Design Coal	100% BMCR Worst Coal
		Ash collection	t/h	37.3	21.5	52.7	50.4		71.6	Ash collection	t/h	37.3	21.5	52.7	50.4	71.6
		Ash temperature	°C	1040	1040	1040	1100		1100	Ash temperature	°C	1040	1040	1040	1100	1100
		Bottom ash temperature	°C	300	300	300	150		150	Bottom ash temperature	°C	300	300	300	150	150
		Total combustion air	t/h	2701	1552	2801	2926		3058	Total combustion air	t/h	2701	1552	2801	2926	3048
Cooling Air requirement	t/h	54	31	56	58	61.2	Cooling Air requirement	t/h	54	31	56	58	61.2			
9	(Page 7 of 2132) Sl.no. 9 of Corrigendum-IV dated 16/12/2025	vi. ECO Ash Data-Predicted:						(Page 7 of 2132) Sl.no. 9 of Corrigendum-IV dated 16/12/2025	vi. ECO Ash Data-Predicted:							
		Guaranteed Loads		100% TMCR Design Coal	55% TMCR Design Coal	100% TMCR Worst Coal	100% BMCR Design Coal		100% BMCR Worst Coal	Guaranteed Loads		100% TMCR Design Coal	55% TMCR Design Coal	100% TMCR Worst Coal	100% BMCR Design Coal	100% BMCR Worst Coal
		ECO Ash collection (Max.)	t/h	14.4					ECO Ash collection (Max.)	t/h	14.4					
		Eco Ash temperature	°C	346	303	352	360		360	Eco Ash temperature	°C	346	303	352	360	360
		Eco ash temperature at the discharge end of 2nd Eco ash conveyor	°C	Bidder to furnish the temperature of Eco ash leaving the 2nd Eco ash conveyor in their offer					Eco ash temperature at the discharge end of 2nd Eco ash conveyor	°C	Bidder to furnish the temperature of Eco ash leaving the 2nd Eco ash conveyor in their offer					
		Total combustion air	t/h	2701	1552	2801	2926		3058	Total combustion air	t/h	2701	1552	2801	2926	3048
Cooling Air requirement	t/h	Bidder to furnish the quantity in their offer					Cooling Air requirement	t/h	Bidder to furnish the quantity in their offer							

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B) 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	Bidder's Query	BHEL Clarification
1	Annexure-27-Declaration for provenness	DECLARATION REGARDING SUBMISSION OF CREDENTIALS PERTAINING TO PROVENNESS MENTIONED IN CHAPTER XX OF TCC: PROVENNESS	Please provide Chapter XX of TCC as we could not locate the same in TCC.	Chapter XX shall be read as Chapter XVI
2	Annexure-20-Proposal-cum-Evaluation-Reportand-Sub-Vendor-Questionnaire	--	This annexure requires information about the selected sub-vendors of the Bidder and can only be submitted by the Bidder post award of contract along with the provenness documents. Please confirm.	To be submitted along with technical bid.
3	3-GCC-Vol 1C/ Annexure-I/ Offer submission as per NIT	7. Forms and Procedures	Please specify which forms and procedures are mentioned in this annexure	Sl.no. 7. <i>"Forms and Procedures"</i> - Stands Deleted
4	NIT26035/Annexure-1	PRE-QUALIFICATION CRITERIA Technical QR: Bidder to meeting (A.1 or A.2) Provenness Criteria for Dry Bottom Ash: B1 and B2	We understand that Dry Bottom Ash Handling system is under Pre-Qualification Criteria as per NIT Technical QR A.1 or A.2 while Provenness Criteria for Dry Bottom Ash is for Dry Bottom Ash Crushers manufacturer/vendors for bought out items as per TCC Vol 1A, Chapter XVI/ Clause16.00.00 regarding which bidder is to provide declaration as per Annexure 27 and Annexure 27 A. Provenness documents of vendors will be submitted after award of contract. Please confirm our understanding.	For the purpose of Provenness requirement detail credentials of vendors may be submitted after award of contract.

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5	GCC-Volume-IC/ 'Chapter-3.0/' ANNEXURES-II/H6	Audited Balance Sheet and profit & Loss Account for the last three years as mentioned in Financial QR.	Against query raised by us for Financial QR, BHEL replied vide corrigendum IV as "Please refer Annexure-1 of NIT". We have checked Annexure-1 of NIT and could not find Financial QR. Hence, we understand that the same is not applicable. Please confirm our understanding.	Financial QR is not applicable for the said tender. As such the clause may be read as <i>"Not Applicable"</i>
6	Annexure-28-Price Break-Up format	D3. Installation Services of BHEL FREE ISSUE ITEMS as per scope of specification	Since installation of items under D3 is to be done by DBA vendor's erection contractor, please provide the quantity/BOQ/tonnage to do the estimation.	Free issue items specified in Scope matrix. Tonnage details shall be shared execution stage.
7	General		Please inform us the maximum storage capacity of each eco-hopper.	Eight (8) hours (max).
8	General		For BA IM Silo truck unloading provision, please inform whether weigh bridge is required or not? If required, whose scope is this? What will be the capacity of this weigh bridge? What will the location of the same?	Weigh bridge is not applicable.
9	2-TCC-Vol 1A/3.02.05	CTBD water required for ash conditioner at BAIM Silo and cooling water for dry BA conveyor and dust suppression system for BAIM Silo shall be limited to 140 m3/hr for both units.	Ash Conditioning water requirement, we have considered 80 TPH per unit (Considering 20% water content for dust suppression). Please check if the same is acceptable or not?	The quantity of water mentioned in the specification is fixed. In case bidder feels the quantity is insufficient, then DVC/BHEL shall provide a source of CTBD in Unit#3 ESP area, bidder can take tapping from there to meet the actual requirement of the system or Bidder to design the storage tank suitably to fulfil the actual water requirement.
10	2-TCC-Annexure-6/Part A/3.00.00		In camera system, for bottom ash area, 6 CCTV cameras have been specified. We will consider 5 cameras dedicated for dry bottom ash operation. Please accept the same.	Bidder shall provide CCTV cameras in the bottom ash hopper area, wherein the quantity shall be as per the bidder's operational requirement. Bidder

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				shall integrate the bottom ash hopper area CCTV system with the main plant CCTV system. In addition to the above, the bidder shall provide provision in bottom ash hopper area, as per the specification, for additional four (04) nos. CCTV cameras. Supply of these cameras is not in bidder's scope.															
11	General		Please inform maximum cooling air quantity to be considered for eco-ash cooling.	Refer corrigendum -IV dated 16.12.2026															
12	General		Please furnish the normal operating pressure inside economizer hopper.	<table border="1"> <thead> <tr> <th>Max. Opertg. Press. @</th> <th>Operating Pr at BMCR</th> <th>Duct Design Temp.</th> <th colspan="2">Design Pressure at 67% yield</th> </tr> <tr> <th>mmwc</th> <th>mmwc</th> <th>°C</th> <th>+ve mmwc</th> <th>-ve mmwc</th> </tr> </thead> <tbody> <tr> <td>-153</td> <td>-147</td> <td>365</td> <td>660</td> <td>-686</td> </tr> </tbody> </table>	Max. Opertg. Press. @	Operating Pr at BMCR	Duct Design Temp.	Design Pressure at 67% yield		mmwc	mmwc	°C	+ve mmwc	-ve mmwc	-153	-147	365	660	-686
Max. Opertg. Press. @	Operating Pr at BMCR	Duct Design Temp.	Design Pressure at 67% yield																
mmwc	mmwc	°C	+ve mmwc	-ve mmwc															
-153	-147	365	660	-686															
13	General		Please furnish the maximum particle size of eco-ash.	<p>ECO Ash PSD (weight Basis)</p> <p><150 microns: 20 to 50%</p> <p>150-400 microns: 40 to 60%</p> <p>400-600 microns: 5-15%</p> <p>600-900 microns: 1-5%</p> <p>900 microns to 25 mm: 1-5%</p> <p>Above percentage may vary at different operating condition of the plant.</p> <p>Also, Clinkers may come occasionally to downstream system through Eco hoppers.</p>															
14	3-GCC-Vol -IC/ ANNEXURE – XVII		What is minimum local content (%) for Class I local supplier for this project?	Please refer Order No. A-1/2021-FSC-Part (5) Dated 16/11/2021 issued by Ministry of Power and															

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Sl. No.	Section/Clause No	Specification	Bidder's Query	BHEL Clarification
				subsequent orders issued by the nodal ministry, if any.
15	TCC-Vol 1A/ cl.no.15.12.03	On successful bidder's request, the Retention Amount can also be recovered at the rate of 10% of the gross amount, progressively, from each of the running bills of the Consultant till the total amount of the required retention amount is collected.	Since retention amount is 5% of contract value, we request that retention amount should be recovered at the rate of 5% of the gross amount, progressively, from each of the running bills till the total amount of the required retention amount is collected	Tender conditions prevail.
16	GCC-Vol 1C/cl.no. 2.20.1	Successful bidder awarded the contract should deposit performance security of 5% of Contract value or as mentioned in TCC, towards fulfilment of all contractual obligations, including warranty obligations.	Since performance security is not mentioned in TCC, we understand that performance security is not applicable. Please confirm our understanding.	Performance Security shall be applicable @5% of Contract value. Same may be referred at Clause no. 2.20 of GENERAL COMMERCIAL TERMS & CONDITIONS of GCC Volume-IC reiterated below- <i>"Successful bidder awarded the contract should deposit performance security of 5% of Contract value or as mentioned in TCC, towards fulfilment of all contractual obligations, including warranty obligations."</i>
17	2-TCC-Volume-IA Cl- 02.23.00I	Insurance: Workers' Compensation In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.	Please inform if policy needs to be taken by bidder or erection sub-contractor of bidder.	Bidder to comply with requirement.

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Sl. No.	Section/Clause No	Specification	Bidder's Query	BHEL Clarification
18	3-GCC-Volume-IC Pg 64/126	ANNEXURE-XIII INTEGRITY PACT	Bidder will sign the document in the indicated position on last page (Page 68 of 126). Who will sign as witness?	Official Employees of Bidder, as per their company policy.
19	3-GCC-Volume-IC Pg 55/126	ANNEXURE_IV CERTIFICATE OF NO DEVIATION	As per NIT20635; Cl. 16.0; there will be no reverse auction for the subject tender. Therefore “reverse auction process” must be deleted from the subject document. Please confirm.	Reverse Auction shall not be applicable for the said tender. May be read as deleted.
20	NIT26035 Clause: 4.0 (a) Page 6 of 14	Submission of Techno-commercial Bid (Un-Priced Tender): All Techno-commercial details (e.g. EMD, Documentary evidence in support of Pre-Qualifying criteria, applicable forms, etc, should be attached in e-tendering module, failing which the tender stands invalid & may be REJECTED.	Please clarify what is meant by of “ e-Tendering Module ”. This clarification was sought earlier dtd. 5 th December, 2025.	“ e-Tendering Module ” Means BHEL e-procurement Portal, i.e., https://eprocurebhel.co.in/nicgep/app
21	2-TCC-Volume-IA CI-09.01.00	DOCUMENTS/INFORMATION TO BE FURNISHED ALONG WITH TECHNICAL OFFER: <ul style="list-style-type: none"> Confirmation of scope in line with Tender. 	What is meant by this? How does this confirmation need to be provided.	Confirmation shall be provided in form of “No deviation certificate.”
22	3-GCC-Volume-IC; ANNEXURE-XI Page 62 of 125	Power of Attorney for Submission of Tender/Signing Contract Agreement	1. Please inform the value of Non-Judicial Stamp Paper on which the Power of Attorney needs to be provided. 2. Does the document need to be notarized?	As mentioned in ANNEXURE-XI- “To be typed on non-judicial Stamp Papers of appropriate value as applicable and Notarised.”

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Sl. No.	Section/Clause No	Specification	Bidder's Query	BHEL Clarification
23	3-GCC-Volume-IC; ANNEXURE-XV Page 70 of 125	Declaration – Details of related firms and their area of activities	Bidder does not need to fill up & submit this document. Kindly confirm	Bidders are required to fill up & submit this Annexure-XV . 'NA' to be mentioned <i>if not applicable</i> and same to be signed and stamped by Authorised signatory as per Power of Attorney.
24	3-GCC-Volume-IC; ANNEXURE-XVIII Page 73 of 125	DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR 2017	Bidder (an Indian SME) is a 100% owned subsidiary of a Foreign Company. Does Bidder need to fill up and submit Annexure XVIII along with Tender?	All bidders are requested to submit Annexure-XVIII duly signed and Stamped by Authorized signatory.
25	2-TCC-Annexure-6-DVC-NIT-Specification-Part1; 0.0 Part-B Book 2 of 5 Electrical 2023.06.13	Type Tests	We would be sourcing MCC, VFD panel, motors, cables etc. directly from approved manufacturers or their authorized channel partners. We would be submitting manufacturers / authorized channel partner's inspection reports/ test certificates along with our check reports. No type test certificates will be provided.	Bidder to follow the Specifications. Type tests as applicable as per Contract shall be conducted. All the Electrical and C&I items shall be supplied from the Customer approved vendors and inspection shall be conducted as per Customer approved Quality plan.
26	2-TCC-Annexure-8-to-29; Annexure-10-Scope Matrix of Electrical And C&I; SI No: 5	Main control system (DCS)	Please indicate exact location of the Dry Bottom Ash Handling System (DCS) so that we are able to estimate the Cables / Trays & accessories needed.	DCS panels of Dry Bottom Ash Handling System will be placed in AHP ER-2 (for Unit#3) & AHP ER-3 (for Unit#4) MCC buildings. However, location of AHP ER-2 & AHP ER-3 MCC buildings are firm as of now and due to any unseen requirements during detailed engineering it may shift up to 50m (geographically). This change in length shall be absorbed by successful bidder during detailed engineering.
27	Corrigendum – IV dated 16/12/2025 to CPC Tender No.	BHEL Clarification: Bidder to follow tender specifications. Integration with main ash handling CCTV system is in the scope of Bidder	Please clarify – • For integration with the existing plant IP-based CCTV network, specify the technical architecture of the current system (ONVIF support,	Bidder to refer technical Specifications for CCTV system. Type of support to be considered is ONVIF support and other required details for integration with main plant CCTV system like technical

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	BHEL/CPC/KOD/EPC-DBA/26/035 Sl. No. 136		communication protocols, VMS/NVR type, any proprietary requirements). • Specify the required interface type (network/protocol/stream format) and the exact field location of the interface point for connection to the main plant CCTV network	architecture and interface type etc. shall be provided during detail engineering. DBA CCTV system shall be placed in Offsite Control Room or AHP ER-1 Cum Control Room, exact location will be decided during detail engineering. Further it will be interfaced with main plant CCTV system located in Main Plant Control Room (CCR). Bidder to connect to L3 network switch of CCTV located at Main Plant Control Room (CCR). Supporting cable and accessories shall be in bidder scope.
28	2-TCC-Volume-IA; Clause: 02.23.00	INSURANCE	We understand from one leading Insurance company that BHEL has already taken the EAR Insurance for the entire project. This means that bidders do not need to take any coverage on this account. Please confirm.	Insurance shall be in the scope of Bidder. Refer Clause 02.23.00 of TCC.
29	Corrigendum – IV dated 16/12/2025 to CPC Tender No. BHEL/CPC /KOD/ EPC-DBA/26/035 AMENDMENT NO. 5 TO BID SPECIFICATION	--	Please confirm the following: 1. DBA Conveyor 1 & 2 capacity guarantee shall be 100% TMCR(WC) which is equal to 52.7 t/h. 2. Dry Economiser Ash conveyor 1 and 2 capacity guarantee shall be 100% TMCR(WC) which is equal to 14.4 t/h 3. Primary crusher capacity shall be 100% TMCR(WC) which is equal to 52.7 t/h 4. Secondary crusher capacity shall be 100% TMCR (WC) which is equal to 52.7 t/h 5. Particle output size 25 mm About the particle size Bidder shall guarantee 80% of BA particle size passing 25x25 square mesh at the discharge of secondary crusher. Particle size to	Queries 1 to 6- Please refer DVC Amendment No. 7 to bid specification (Attached-3). 7. Guaranteed Power Consumption shall be as per specification.

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			<p>be measured according to norms (EN932-1; EN932-2; EN932-2)</p> <p>6. Maximum conveying and crushing capacity: 3hours-15min BA generation to be evacuated in 2 hours @100%TMCR WC Bidder intends this condition for “extraction mode” only during the evacuation of the BA in the hopper due the accumulation after the closing of the bottom doors. 100 % TMCR WC = 52.7 t/h Hopper accumulation in (3.25 hours) = 171.3 t Max Capacity (extraction) = 85.65 t/h ECO ash not to be considered in this condition. Other guarantees: 7. Guaranteed power consumption for 2 units: 350 kW (175 kW/unit) Bidder comments that power consumption need to be measured as the average value over a 8-hour period during normal continuous operation @100% TMCR (Design coal). Guaranteed power consumption includes BA intermediate silo discharging equipment and does not include any other equipment that is out of Bidder scope of supply. Equipment not operating under normal continuous conditions (i.e. bottom doors, hoists) shall not be considered in the power consumption evaluation.</p> <p><u>Please note that no other guarantees are required and will be provided.</u></p>	<p><u>Other guarantees shall be as per tender specification.</u></p>

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30	Corrigendum – IV dated 16/12/2025 to CPC Tender No. BHEL/CPC/ KOD/EPC-DBA/26/035 Sl. No. 135	BHEL Clarification: Kindly refer enclosed BHEL's Tech Amendment 01	Amendment-01 does not refer to the clarification of this point. The ECO ash supporting structure at EL. +18 m shall be connected to the boiler columns; however, Bidder shall not be responsible for providing the structural calculations of the columns. Only the interface loads shall be provided. The drawings (No. 0-36-323-30229, 0-36-323-30230, and 0-36-323-30232) only show the existing beams and gratings where the Eco conveyor will be positioned. Any required boiler columns modifications/reinforcements are out of Bidder scope.	Corrigendum–IV dated 16.12.2025 is clear, and bidders to follow the same. The referred drawings indicate the column layout, bidders shall plan the structural supports accordingly from the columns only. No existing beams and grating shall be utilized for the ECO conveyor system. Opening on the floor for discharge chute (if required) shall be also in bidder scope only.
31	Corrigendum – IV dated 16/12/2025 to CPC Tender No. BHEL/CPC/ KOD/EPC-DBA/26/035 Sl. No. 141-Surface Preparation & Painting	BHEL Clarification: Tender Condition shall prevail. Bidder to comply with technical specification requirement.	Based on its proven experience, MP proposes the following painting cycles for the Equipment (hot resistant paint) <ul style="list-style-type: none"> • Surface Preparation: EN12944 SSPC SP10 Sa 2.5 • Primer: Inorganic Zinc Rich Primer No.1-layer 75 micron • Finishing: Silicone Aluminium No.1-layer 25 micron • Total Dry Film Thickness= 100 micron 	Bidder's standard proven practice is acceptable subject to approval of DVC/BHEL during detail engineering.
32	Corrigendum – IV dated 16/12/2025 to CPC Tender No. BHEL/CPC/ KOD/EPC-DBA/26/035 Sl. No. 133	BHEL Clarification: Refer corrigendum being issued for Economizer ash data at various boiler load. Cooling water required in emergency condition for BMCR load shall be indicated by bidder in their offer for our review.	According to the thermal calculations, bidder provides the following table with the air/water cooling requirements for the different operating conditions. See document: MP.2024.0162-TNG-R00 (attached)	Comment attached (Annexure-4) on the air/water cooling requirements.

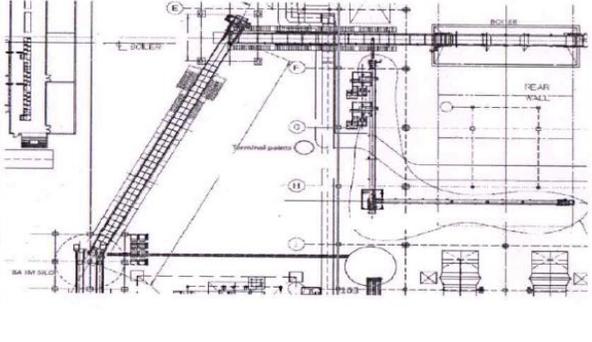
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Sl. No.	Section/Clause No	Specification	Bidder's Query	BHEL Clarification																																																																														
		<p>Bottom ash temperature of 1040 Deg. C is only for the guaranteed condition. However complete dry bottom ash system shall be designed for bottom ash temperature of 1100 Deg. C as mentioned in the TCC.</p> <p>Regarding bulk density of Eco ash, Bidder may note that bulk density of actual Eco ash collected in the ash hopper may vary due to different operating conditions. Hence, Bidder shall consider bulk density in the range of 650-1000 kg/m³ for the system design.</p> <p>Economizer ash conveyor capacity is already defined in the NIT.</p>	<table border="1" data-bbox="976 288 1529 715"> <thead> <tr> <th rowspan="2">Guaranteed Limits</th> <th colspan="2">100% TPCR</th> <th colspan="2">85% TPCR</th> <th colspan="2">100% BPCR</th> <th rowspan="2">Note</th> </tr> <tr> <th>Design Coal</th> <th>Design Coal</th> <th>Worst Coal</th> <th>Design Coal</th> <th>Worst Coal</th> <th></th> </tr> </thead> <tbody> <tr> <td>Bottom Ash collection</td> <td>98</td> <td>97.5</td> <td>95.7</td> <td>96.4</td> <td>97.9</td> <td></td> <td>BHEL clause 205.11.10C (original)</td> </tr> <tr> <td>Bottom Ash temperature</td> <td>°C</td> <td>1040</td> <td>1040</td> <td>1030</td> <td>1100</td> <td></td> <td></td> </tr> <tr> <td>Economizer air production</td> <td>91</td> <td>7.5</td> <td>4.3</td> <td>10.5</td> <td>11.1</td> <td>14.4</td> <td>Bottom ash to economizer ash ratio is 1:1. BHEL indicated only 14.4 Ash to NIT. (Compendium)</td> </tr> <tr> <td>Economizer ash temperature</td> <td>°C</td> <td>345</td> <td>303</td> <td>352</td> <td>300</td> <td>300</td> <td>BHEL clause 205.11.10C (original)</td> </tr> <tr> <td>Bottom ash & Economizer ash temperature @ outlet of 2nd conveyor</td> <td>°C</td> <td>300</td> <td>300</td> <td>300</td> <td>190</td> <td>190</td> <td></td> </tr> <tr> <td>Total combustion air (TCA)</td> <td>99</td> <td>2.701</td> <td>2.833</td> <td>2.801</td> <td>2.825</td> <td>3.658</td> <td></td> </tr> <tr> <td>Cooling air for Bottom ash & Eco ash (in liter to 2.7% of TCA)</td> <td>99</td> <td>67.9</td> <td>58.8</td> <td>70.0</td> <td>70.2</td> <td>76.5</td> <td></td> </tr> <tr> <td>Cooling water requirement</td> <td>99</td> <td>0</td> <td>0</td> <td>up to 7.7</td> <td>up to 9.9</td> <td>up to 18</td> <td>99 as per NIT (original)</td> </tr> </tbody> </table> <p>The values of cooling air mass flow and cooling water rate have to be intended as "preliminary".</p>	Guaranteed Limits	100% TPCR		85% TPCR		100% BPCR		Note	Design Coal	Design Coal	Worst Coal	Design Coal	Worst Coal		Bottom Ash collection	98	97.5	95.7	96.4	97.9		BHEL clause 205.11.10C (original)	Bottom Ash temperature	°C	1040	1040	1030	1100			Economizer air production	91	7.5	4.3	10.5	11.1	14.4	Bottom ash to economizer ash ratio is 1:1. BHEL indicated only 14.4 Ash to NIT. (Compendium)	Economizer ash temperature	°C	345	303	352	300	300	BHEL clause 205.11.10C (original)	Bottom ash & Economizer ash temperature @ outlet of 2 nd conveyor	°C	300	300	300	190	190		Total combustion air (TCA)	99	2.701	2.833	2.801	2.825	3.658		Cooling air for Bottom ash & Eco ash (in liter to 2.7% of TCA)	99	67.9	58.8	70.0	70.2	76.5		Cooling water requirement	99	0	0	up to 7.7	up to 9.9	up to 18	99 as per NIT (original)	
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33	Corrigendum – IV dated 16/12/2025 to CPC Tender No. BHEL/CPC/ KOD/EPC-DBA/26/035 Sl. No. 144	BHEL Clarification: Kindly follow TCC Clause No 03.02.04 for terminal point of Instrument Air System and TCC Clause – 10.02.00 for CTBD/Clarified Water	<p>In 2-TCC-Volume-IA; Clause no 03.02.04; Instrument Air System – The air quality and pressure at the interface are not provided.</p> <p>Following quality and characteristics of Instrument Air is required for Dry Bottom Ash and Economizer Ash –</p> <p>Instrument Air Pressure Dew point -40°C Oil content (max) 5ppm 7 bar minimum</p>	<p>1. Instrument Air Details 1.1 Pressure Dew Point- -20 -40 Deg C 1.2 Oil content (max) 5ppm and 1.3 Pressure- 5-6 Bar at Terminal Point 1.4 Terminal Point- Bidder to read as max 150 meter from Bottom Ash Hopper of Unit#3 and Unit#4.</p> <p>2. CTBD Water Details- 2.1 Quantity and Pressure- Bidder to check the Clause No 03.02.05 of TCC-Volume -IA. Bidder to select the Conditioning Water Pump as per requirement</p>																																																																														

Corrigendum – X- dated 19/01/2026 to CPC Tender No. BHEL/CPC/KOD/EPC-DBA/26/035

Sl. No.	Section/Clause No	Specification	Bidder's Query	BHEL Clarification
			<p>CTBD/clarified water details required For Dry Bottom Ash / Eco ash the following data are required: - 7 bar minimum - 70 m³/h minimum</p> <p>Clarification required for Position of terminal points for Instrument Air & CTBD/clarified water About <u>instrument air</u> terminal point position "15prox.." 100 m shall be read as "MAX" 100 m from the related hopper Furthermore it is necessary one point for each Unit, hence two points are required for two units. For the water point mentioned in Clause no 10.02.00 of 2-TCC-Volume-IA – indicated only a terminal point for Unit 3</p> <p>Please Clarify also for the unit 4 the position A dedicated terminal point is required for each unit for Instrument Air & CTBD/clarified water. Please confirm.</p> <p>Please share on the plot plan an indicative position of the points for compressed air and clarified water for both the units. Bidder shall provisionally consider the terminal points (air & water) in the area near column G-103 for unit#4 and an additional connection point in a corresponding position for Unit 3</p>	<p>2.2 Terminal Point- Specification is clear. CTBD Water header shall be provided 100 m from Ash Conditioning Water Tank area of Unit# 3 only. As the conditioning water tank, conditioning water pumps are common for both unit and supply erection, commissioning of these pumps are in bidder scope. Storage and distribution through Conditioning water pumps from Conditioning water tank to Unit 3 and Unit-4 Boiler area and BAIM Silo area with pipe valves, fittings, instruemnts along with all accessories are in bidder scope.</p> <ol style="list-style-type: none"> 1. Location of Terminal point for the Instrument Air Header shall be provided during detail engineering. 2. Location of Terminal point for the CTBD Water shall be based on the actual location of Ash Conditioning water tank, which design is in bidder scope.

Corrigendum – X- dated 19/01/2026 to CPC Tender No. BHEL/CPC/KOD/EPC-DBA/26/035

Sl. No.	Section/Clause No	Specification	Bidder's Query	BHEL Clarification
				
34	2-TCC-Volume-IA; Clause no: 08.02.02	Electricity for office, stores, canteen etc. of the bidder within project premises	Please confirm the distance from the bidder office at which the point of Power Supply will be provided by BHEL	Bidder to refer Clause 08.11.00 a of TCC.
35	GCC-Vol 1C/cl 2.201 TCC Vol 1A/cl 15.01.01/15.01.02 GCC-Vol 1C/Annexure XXII Corrigendum – VII/S.N. 14	<p>Successful bidder awarded the contract should deposit performance security of 5% of Contract value or as mentioned in TCC, towards fulfilment of all contractual obligations, including warranty obligations.</p> <p>Three Percent (3%) of the basic price for supply of plant & equipment against submission of basic/ detail Engineering drawings/ documents on pro rata basis against submission of equivalent amount of Bank Guarantee as per BHEL format.</p> <p>Two Percent (2%) of the basic price for supply of plant & equipment against customer approval (CAT-I)</p>	<p>We understand that the Performance Security of 5% asked in GCC cl 2.201 and BGs asked against 3% and 2% payment mentioned in TCC cl 15.01.01 and 15.01.02 are same. This is further confirmed through reply given in Corrigendum-VII/S.N. 14 in which the BG format of Performance Security as per GCC Annexure XXII is mentioned by BHEL for the reply of Bank Guarantee formats for 3% and 2%.</p> <p>Please confirm our understanding.</p> <p>If not, please issue bank guarantee formats for 3% and 2% payments against drawing submission and approval as format of performance security cannot be applicable on these payments.</p>	<p>Regarding Performance Security kindly refer Sl. no. 16 above.</p> <p>BG for payment to be valid until completion of supply.</p> <p>Bank guarantee formats for 3% and 2% payments against drawing submission and approval is attached as - “BANK GUARANTEE FOR SUPPLY OF PLANT & EQUIPMENT AGAINST APPROVAL OF BASIC/ DETAIL ENGINEERING DRAWINGS/ DOCUMENTS”</p>

Corrigendum – X- dated 19/01/2026 to CPC Tender No. BHEL/CPC/KOD/EPC-DBA/26/035

Sl. No.	Section/Clause No	Specification	Bidder's Query	BHEL Clarification
		<p>of basic/ detail Engineering drawings/ documents on pro rata basis against submission of equivalent amount of Bank Guarantee as per BHEL format.</p> <p>Bidder to use BG format as per ANNEXURE – XXII of GCC:</p>		

Note:

- 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).
- 3) Enclosed Annexures to Corrigendum-X:
 - a) Anexure-1: DVC Amendment No 6 to bid specification.
 - b) Anexure-2: Flow Diagram BA, CA and HCSD System-Rev 03.
 - c) Annexure-3: DVC Amendment No. 7 to bid specification.
 - d) Annexure-4: Comment to Technical Note: Cooling air and water requirements.
 - e) BANK GUARANTEE FOR SUPPLY OF PLANT & EQUIPMENT AGAINST APPROVAL OF BASIC/ DETAIL ENGINEERING DRAWINGS/ DOCUMENTS

for BHARAT HEAVY ELECTRICALS LTD
SDGM / Purchase - CPC

DVC-KTPH PH-II (2x800MW) EPC PACKAGE CHANGE PROPOSAL**AMENDMENT NO. 6 TO BID SPECIFICATION**

S. N O.	SPECIFICATION REFERENCE				EXISTING (As per Base Specification)	SHALL BE READ AS
	SEC/ PART	SUB- SEC.	PAGE NO.	CLAUSE NO.		
1.	AMENDMENT NO.4 TO TECHNICAL SPECIFICATION(SECTION VI)		25 of 30	MH-44	The fine ash and coarse ash after classification shall be stored in separate RCC hoppers/structural steel hoppers, fine ash hopper and coarse ash hopper respectively. The capacity of the fine ash hopper (01 no) and coarse ash hopper (02 no 1W+1S) shall be 300 Tonnes each for pressure conveying system.	The fine ash and coarse ash after classification shall be stored in separate RCC hoppers/structural steel hoppers, fine ash hopper and coarse ash hopper respectively. The capacity of the fine ash hopper (01 no) and coarse ash hopper (02 no 1W+1S) shall be 300 Tonnes each for both pressure & vacuum conveying system.
2.	VI/A	IIA-16	1 of 17	1.01.04(i)	New clause added	The scope of supply for Vacuum system & Pressure system along with Classifier system shall be governed by the tender dwg. as per Sl. No. 7 of Amendment-6.
3.	VI-A	IIA-16	9 of 17	1.01.06 E, (f)	Ten (10) nos. Pump tanks/Air lock tank for each coarse ash hopper and four (4) nos. of pump tanks/air locks tank for fine ash hopper for transportation of coarse fly ash and fine fly ash, to silos provided for dry fly ash storage silos meant for Road and Rail loading. Provisions shall be provided to convey & store coarse ash and Fine Ash to all Fly ash Silo.	Twelve (12) nos. Pump tanks/Air lock tank for each coarse ash hopper and four (4) nos. of pump tanks/air locks tank for fine ash hopper for transportation of coarse fly ash and fine fly ash, to silos provided for dry fly ash storage silos meant for Road and Rail loading. Provisions shall be provided to convey & store coarse ash and Fine Ash to all Fly ash Silo.

DVC-KTPH PH-II (2x800MW) EPC PACKAGE CHANGE PROPOSAL

AMENDMENT NO. 6 TO BID SPECIFICATION

4.	VI-A	IIA-16	9/17	1.01.06 E, (9)	<p>Additionally, the fine ash shall be pneumatically conveyed to fine ash silo, located in Fly ash silo complex with the provision of bagging plant. Suitable number of outlets shall be provided for feeding to the bagging plant. This silo shall have one outlet provided with telescopic chute and rotary feeder for loading the ash into closed tankers. The silo shall be provided with Target box and bag filter assembly along with pulse jetting arrangement, fan units etc. and other accessories, Five (5) nos. Slide plate type isolation valves below the silo, Required numbers segregation valves for isolation of fly ash transportation lines and required numbers of silo inlet valves of specified type, All necessary hydraulic or pneumatic actuators, All interconnecting compressed air pipelines complete with valves, fittings, pipe rack and supporting steel structure, All nuts, bolts and jointing materials at flanged termination points.</p>	<p>Additionally, the fine ash shall be pneumatically conveyed to fine ash silo, located in Fly ash silo complex with the provision of bagging plant. Suitable number of outlets shall be provided for feeding to the bagging plant. This silo shall have one four outlets provided with telescopic chute and rotary feeder for loading the ash into rail wagons/ closed tankers as per drawing no XXXX-001(R)-POM-A-027, Rev-02 & XXXX-001-POM-A-028, Rev-02. The silo shall be provided with Target box and bag filter assembly along with pulse jetting arrangement, fan units etc. and other accessories, Air slides(if required), Required nos. Slide plate type isolation valves below the silo, Required numbers segregation valves for isolation of fly ash transportation lines and required numbers of silo inlet valves of specified type, All necessary hydraulic or pneumatic actuators, All interconnecting compressed air pipelines complete with valves, fittings, pipe rack and supporting steel structure, All nuts, bolts and jointing materials at flanged termination points as per drawing no XXXX-001(R)-POM-A-027, Rev-02 & XXXX-001-POM-A-028, Rev-02.</p> <p>The system should be designed to operate all the eight ash conditioners of fly ash silos simultaneously.</p>
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AMENDMENT NO. 6 TO BID SPECIFICATION

5.	VI/A	Annexure -I (IIA-16 AHP Scope Change)	5 of 9	(xxiii)	<p>Total two (2) nos. BA Main silo of MS fabricated with liner shall be provided. Each BA Main silo capacity shall be of 2000 MT. Below each BA Main silo, 3 sets of Vibro feeder (VFD Driven) capacity of 40 to 260 TPH along with hammer mill/ crushers shall be provided for Rail/road unloading and HCSD system. Each set of Vibro feeder and hammer mill/crushers shall either feed to rail or road or HCSD system. The output size of crusher / hammer mill shall be suitable for HCSD system [(-) 8 mm]. For rail/road unloading, all three sets shall work at a time. Each set of vibro feeder and crusher/hammer mill shall be designed for Rated capacity of 75 TPH.</p>	<p>Total two (2) nos. BA Main silo of MS fabricated with liner shall be provided. Each BA Main silo capacity shall be of 2000 MT. Below each BA Main silo, 3 sets of Vibro feeder (VFD Driven) capacity of 40 to 260 TPH along with hammer mill/ crushers shall be provided for Rail/road unloading and HCSD system. Each set of Vibro feeder and hammer mill/crushers shall either feed to rail or road or HCSD system. The particle size for Rail/road unloading shall be considered (-)25 mm. Additional hammer mill/crusher shall be provided for HCSD system and the output size of crusher / hammer mill shall be suitable for HCSD system max. of [8 mm] or less as required by HCSD Vendor. For rail/road unloading, two sets shall work at a time and one set will be dedicated for unloading into open truck independently. Each set of vibro feeder and crusher /hammer mill shall be designed for Rated capacity of 75 TPH.</p>
6.	VI/A	Annexure -I (IIA-16 AHP Scope Change)	5 of 9	(xxvi)	New Clause added	<p>The pitching of ash silo and overall arrangement to facilitate simultaneous loading of minimum of four wagons (BOYN)/Open Truck from two number of Bottom ash Main Silos. For ensuring safety while accessing the top of wagon, a suitable platform at approx. height of 4.5 Mtrs above railway track all along the length of track in silo area shall be provided.</p>

DVC-KTPH PH-II (2x800MW) EPC PACKAGE CHANGE PROPOSAL

AMENDMENT NO. 6 TO BID SPECIFICATION

7.	VI/E	Tender drawings			<p>Single Line flow diagram for fly ash handling system (Vacuum System)- XXXX-001(R)-POM-A-027, Rev-01</p> <p>Single Line flow diagram for fly ash handling system (Pressure System)- XXXX-001-POM-A-028, Rev-01</p> <p>Single Line flow diagram for ash classifier system (Vacuum System)- XXXX-001(R)-POM-A-029, Rev-02</p> <p>Single Line flow diagram for ash classifier system (Pressure System)- XXXX-001(R)-POM-A-029, Rev-02</p> <p>Flow diagram of bottom ash, coarse ash handling system and HCSD System - 3112-106-POM-A-910 Sheet 1 of 2, Rev-2</p> <p>Flow diagram of bottom ash, coarse ash handling system and HCSD System - 3112-106-POM-A-910 Sheet 2 of 2, Rev-2</p>	<p>Single Line flow diagram for fly ash handling system (Vacuum System)- XXXX-001(R)-POM-A-027, Rev-02</p> <p>Single Line flow diagram for fly ash handling system (Pressure System)- XXXX-001-POM-A-028, Rev-02</p> <p>Single Line flow diagram for ash classifier system (Vacuum System)- XXXX-001(R)-POM-A-029, Rev-03</p> <p>Single Line flow diagram for ash classifier system (Pressure System)- XXXX-001(R)-POM-A-029, Rev-03</p> <p>Flow diagram of bottom ash, coarse ash handling system and HCSD System - 3112-106-POM-A-910 Sheet 1 of 2, Rev-3</p> <p>Flow diagram of bottom ash, coarse ash handling system and HCSD System - 3112-106-POM-A-910 Sheet 2 of 2, Rev-3</p>
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DVC-KTPH PH-II (2x800MW) EPC PACKAGE CHANGE PROPOSAL

AMENDMENT NO. 6 TO BID SPECIFICATION

8.	VI/B	Annexure -I (A-21 ASH HAN- DLING PLANT)	34 of 41	6.00.00	New Clause added:	<p>Each coarse fly ash hopper shall be designed to handle ESP ash from both units. In this case, all six conveying lines from the coarse fly ash hopper to the main silo shall be in operation for ease of maintenance. Vent fan & Bag Filter for each coarse fly ash hopper shall be designed accordingly. Data sheet of Bag filter for coarse fly ash hopper shall be as follows:</p> <table border="1" data-bbox="1406 467 2074 831"> <tr> <td data-bbox="1406 467 1512 523">Design</td> <td data-bbox="1518 467 1541 523">:</td> <td data-bbox="1547 467 2074 523">To achieve a sustained dust emission at outlet not exceeding 50 mg/NM3</td> </tr> <tr> <td data-bbox="1406 528 1512 635">Special features</td> <td data-bbox="1518 528 1541 635">:</td> <td data-bbox="1547 528 2074 635">i) It should be possible to carry out the maintenance and replacement of bags without affecting the performance of the system.</td> </tr> <tr> <td data-bbox="1406 639 1512 746"></td> <td data-bbox="1518 639 1541 746"></td> <td data-bbox="1547 639 2074 746">ii) The performance of bag filter shall not get affected with 10% of bags plugged. Air to cloth ratio taken for bag selection shall be maximum 1.5 m/min.</td> </tr> <tr> <td data-bbox="1406 751 1512 831"></td> <td data-bbox="1518 751 1541 831"></td> <td data-bbox="1547 751 2074 831">iii) Bag filter shall be supplied with automatic bag filter pulse jet cleaning equipment including controller.</td> </tr> </table>	Design	:	To achieve a sustained dust emission at outlet not exceeding 50 mg/NM3	Special features	:	i) It should be possible to carry out the maintenance and replacement of bags without affecting the performance of the system.			ii) The performance of bag filter shall not get affected with 10% of bags plugged. Air to cloth ratio taken for bag selection shall be maximum 1.5 m/min.			iii) Bag filter shall be supplied with automatic bag filter pulse jet cleaning equipment including controller.
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9.	VI/A	Annexure -I (IIA-16 AHP Scope Change)	6 of 9	1.03.00 MISC. COMMON SYSTEMS	<p>(iii) Three (3) nos. (2W + 1SB) HCSD LP water pumps with adequate pressure & capacity for supplying water to mixing/retention tank with drive motors, base plates, foundation bolts, inserts, embedment, pipelines, valves, fittings, pipe rack, structural steel supports for piping system and accessories as specified and as required. HCSD LP water Tank shall be over ground RCC construction with minimum 30 minutes capacity. Make-up to HCSD seal-cooling water Tank shall from CTBD / Raw water source.</p>	<p>(iii) Three (3) nos. (2W + 1SB) HCSD LP water pumps with adequate pressure & capacity for supplying water to mixing/retention tank with drive motors, base plates, foundation bolts, inserts, embedment, pipelines, valves, fittings, pipe rack, structural steel supports for piping system and accessories as specified and as required. HCSD LP water Tank shall be over ground RCC construction with minimum 1 hour capacity. Make-up to HCSD seal-cooling water Tank shall from CTBD / Raw water source. Ash conditioner water pumps for the fly ash silo and bottom ash silo and wash water pump shall take suction from the HCSD LP water tank. For the purpose of tank volume calculation, the bidder shall consider the maximum water requirement of either the ash conditioner pumps or the HCSD LP water pumps, whichever is higher.</p>																
10.	VI/B	Annexure -I (A-21 ASH HANDLING PLANT)	9 of 22	12.00.00	<p>Bottom Ash Intermediate Silo/Bottom Ash Main Silo</p> <table border="1" data-bbox="728 805 1301 1125"> <tr> <td>Number</td> <td>As specified and as required.</td> </tr> <tr> <td>Type</td> <td>Flat bottom / Conical type with proven design with respect to flowability of ash.</td> </tr> <tr> <td>Storage capacity</td> <td>As specified elsewhere</td> </tr> <tr> <td>Material of construction</td> <td>MS plates, IS:2062 min 10mm thick. Min 3 mm thick SS liner as per SS 409 M/410 at conical portion of silo</td> </tr> </table>	Number	As specified and as required.	Type	Flat bottom / Conical type with proven design with respect to flowability of ash.	Storage capacity	As specified elsewhere	Material of construction	MS plates, IS:2062 min 10mm thick. Min 3 mm thick SS liner as per SS 409 M/410 at conical portion of silo	<p>Bottom Ash Intermediate Silo/Bottom Ash Main Silo/ Coarse Ash Intermediate Surge Hoppers</p> <table border="1" data-bbox="1422 805 1995 1125"> <tr> <td>Number</td> <td>As specified and as required.</td> </tr> <tr> <td>Type</td> <td>Flat bottom / Conical type with proven design with respect to flowability of ash.</td> </tr> <tr> <td>Storage capacity</td> <td>As specified elsewhere</td> </tr> <tr> <td>Material of construction</td> <td>MS plates, IS:2062 min 10mm thick. Min 3 mm thick SS liner as per SS 409 M/410 at conical portion of silo</td> </tr> </table>	Number	As specified and as required.	Type	Flat bottom / Conical type with proven design with respect to flowability of ash.	Storage capacity	As specified elsewhere	Material of construction	MS plates, IS:2062 min 10mm thick. Min 3 mm thick SS liner as per SS 409 M/410 at conical portion of silo
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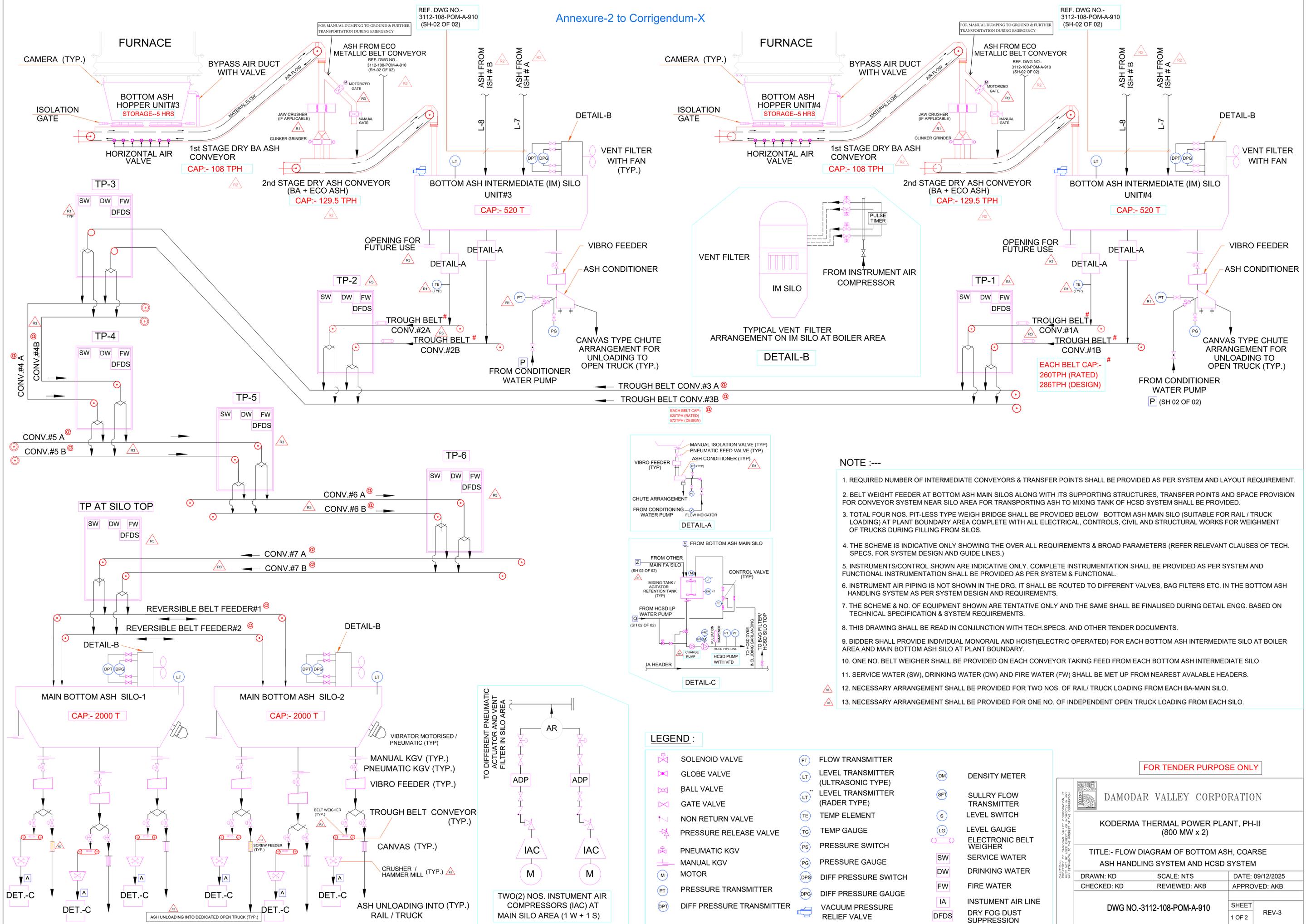
11.	VI/B	Annexure -II (A-21 ASH HANDLING PLANT)	29 of 41	3.08.00	Dry Ash unloader, Conditioned Ash unloader, Telescopic chute	Dry Ash unloader, Conditioned Ash unloader, Telescopic chute											
					<table border="1"> <tr> <td>1</td> <td>Qty</td> <td>:</td> <td>As per scope</td> </tr> <tr> <td>2</td> <td>Capacity range</td> <td>:</td> <td>40-100 TPH during open truck/Bulker loading through Condition ash un-loader 40-300 TPH for Truck/Bulker/Rail Wagon Loading through Dry Ash un-loader</td> </tr> </table> <p>Suitable arrangement for Control of movement of Telescopic spout shall have to be provided in all three X-Y-Z directions to facilitate loading of ash into BOXN, BCFC, BCCW and BTAP Wagons during loading of Ash and to facilitate simultaneous loading into Wagons from all the Silos and into Wagons in between two Silos.</p>	1	Qty	:	As per scope	2	Capacity range	:	40-100 TPH during open truck/Bulker loading through Condition ash un-loader 40-300 TPH for Truck/Bulker/Rail Wagon Loading through Dry Ash un-loader	<table border="1"> <tr> <td>1</td> <td>Qty</td> <td>:</td> <td>As per scope</td> </tr> <tr> <td>2</td> <td>Capacity range</td> <td>:</td> <td>40-260 TPH during open truck/Bulker/ Rail wagon loading through Condition ash unloader (FA Main Silo) 40-120 TPH during open truck/Bulker loading through Condition ash unloader (BAIM Silo) 40-300 TPH for Truck/Bulker/Rail Wagon Loading through Dry Ash un-loader through Telescopic chute (BA & FA Main Silo) 40-120 TPH for dedicated open truck loading (BA Main Silo)</td> </tr> </table> <p>Suitable arrangement for Control of movement of Telescopic spout shall have to be provided in all three X-Y-Z directions to facilitate loading of ash into BOXN, BCFC, BCCW and BTAP Wagons during loading of Ash and to facilitate simultaneous loading into Wagons from all the Silos and into Wagons in between two Silos.</p>	1	Qty	:
1	Qty	:	As per scope														
2	Capacity range	:	40-100 TPH during open truck/Bulker loading through Condition ash un-loader 40-300 TPH for Truck/Bulker/Rail Wagon Loading through Dry Ash un-loader														
1	Qty	:	As per scope														
2	Capacity range	:	40-260 TPH during open truck/Bulker/ Rail wagon loading through Condition ash unloader (FA Main Silo) 40-120 TPH during open truck/Bulker loading through Condition ash unloader (BAIM Silo) 40-300 TPH for Truck/Bulker/Rail Wagon Loading through Dry Ash un-loader through Telescopic chute (BA & FA Main Silo) 40-120 TPH for dedicated open truck loading (BA Main Silo)														

DVC-KTPH PH-II (2x800MW) EPC PACKAGE CHANGE PROPOSAL

AMENDMENT NO. 6 TO BID SPECIFICATION

12.	VI/B	Annexure -I (A-21 ASH HAN- DLING PLANT)	9 of 22	13.00.00 Com- bined High Concen- tration Ash Slurry Dis- posal System	vi) Bidder should ascertain the slurry rheological characteristics to design ash slurry pumping system. Chemical treatment if required for HCSD slurry formation shall be provided. No extra claim shall be entertained for system modifications at later date on account of the same.	vi) Ash Rheology Test with Bottom Ash and Fly Ash for the design of HCSD System is in Bidder's scope. Bidder shall ascertain the slurry rheological characteristics to design ash slurry pumping system. Chemical treatment if required for HCSD slurry formation shall be provided. No extra claim shall be entertained for system modifications at later date on account of the same. Contractor shall collect the ash sample from DVC operating plant (to be identified by DVC at the contract stage). DVC will facilitate collection of ash sample at its power plant. However, Contractor shall make his own arrangement for collection and transportation of ash sample to its works / laboratory from DVC plant.
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Annexure-2 to Corrigendum-X



- NOTE :---**
1. REQUIRED NUMBER OF INTERMEDIATE CONVEYORS & TRANSFER POINTS SHALL BE PROVIDED AS PER SYSTEM AND LAYOUT REQUIREMENT.
 2. BELT WEIGHT FEEDER AT BOTTOM ASH MAIN SILOS ALONG WITH ITS SUPPORTING STRUCTURES, TRANSFER POINTS AND SPACE PROVISION FOR CONVEYOR SYSTEM NEAR SILO AREA FOR TRANSPORTING ASH TO MIXING TANK OF HCSD SYSTEM SHALL BE PROVIDED.
 3. TOTAL FOUR NOS. PIT-LESS TYPE WEIGH BRIDGE SHALL BE PROVIDED BELOW BOTTOM ASH MAIN SILO (SUITABLE FOR RAIL / TRUCK LOADING) AT PLANT BOUNDARY AREA COMPLETE WITH ALL ELECTRICAL, CONTROLS, CIVIL AND STRUCTURAL WORKS FOR WEIGHMENT OF TRUCKS DURING FILLING FROM SILOS.
 4. THE SCHEME IS INDICATIVE ONLY SHOWING THE OVER ALL REQUIREMENTS & BROAD PARAMETERS (REFER RELEVANT CLAUSES OF TECH. SPECS. FOR SYSTEM DESIGN AND GUIDE LINES.)
 5. INSTRUMENTS/CONTROL SHOWN ARE INDICATIVE ONLY. COMPLETE INSTRUMENTATION SHALL BE PROVIDED AS PER SYSTEM AND FUNCTIONAL INSTRUMENTATION SHALL BE PROVIDED AS PER SYSTEM & FUNCTIONAL.
 6. INSTRUMENT AIR PIPING IS NOT SHOWN IN THE DRG. IT SHALL BE ROUTED TO DIFFERENT VALVES, BAG FILTERS ETC. IN THE BOTTOM ASH HANDLING SYSTEM AS PER SYSTEM DESIGN AND REQUIREMENTS.
 7. THE SCHEME & NO. OF EQUIPMENT SHOWN ARE TENTATIVE ONLY AND THE SAME SHALL BE FINALISED DURING DETAIL ENGG. BASED ON TECHNICAL SPECIFICATION & SYSTEM REQUIREMENTS.
 8. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH TECH.SPECS. AND OTHER TENDER DOCUMENTS.
 9. BIDDER SHALL PROVIDE INDIVIDUAL MONORAIL AND HOIST(ELECTRIC OPERATED) FOR EACH BOTTOM ASH INTERMEDIATE SILO AT BOILER AREA AND MAIN BOTTOM ASH SILO AT PLANT BOUNDARY.
 10. ONE NO. BELT WEIGHER SHALL BE PROVIDED ON EACH CONVEYOR TAKING FEED FROM EACH BOTTOM ASH INTERMEDIATE SILO.
 11. SERVICE WATER (SW), DRINKING WATER (DW) AND FIRE WATER (FW) SHALL BE MET UP FROM NEAREST AVAILABLE HEADERS.
 12. NECESSARY ARRANGEMENT SHALL BE PROVIDED FOR TWO NOS. OF RAIL/ TRUCK LOADING FROM EACH BA-MAIN SILO.
 13. NECESSARY ARRANGEMENT SHALL BE PROVIDED FOR ONE NO. OF INDEPENDENT OPEN TRUCK LOADING FROM EACH SILO.

LEGEND :

	SOLENOID VALVE		FLOW TRANSMITTER		DENSITY METER
	GLOBE VALVE		LEVEL TRANSMITTER (ULTRASONIC TYPE)		SULLRY FLOW TRANSMITTER
	BALL VALVE		LEVEL TRANSMITTER (RADER TYPE)		LEVEL SWITCH
	GATE VALVE		TEMP ELEMENT		LEVEL GAUGE
	NON RETURN VALVE		TEMP GAUGE		ELECTRONIC BELT WEIGHER
	PRESSURE RELEASE VALVE		PRESSURE SWITCH		SERVICE WATER
	PNEUMATIC KGV		PRESSURE GAUGE		DRINKING WATER
	MANUAL KGV		DIFF PRESSURE SWITCH		FIRE WATER
	MOTOR		DIFF PRESSURE GAUGE		INSTRUMENT AIR LINE
	PRESSURE TRANSMITTER		VACUUM PRESSURE RELIEF VALVE		DRY FOG DUST SUPPRESSION
	DIFF PRESSURE TRANSMITTER				

FOR TENDER PURPOSE ONLY

DAMODAR VALLEY CORPORATION

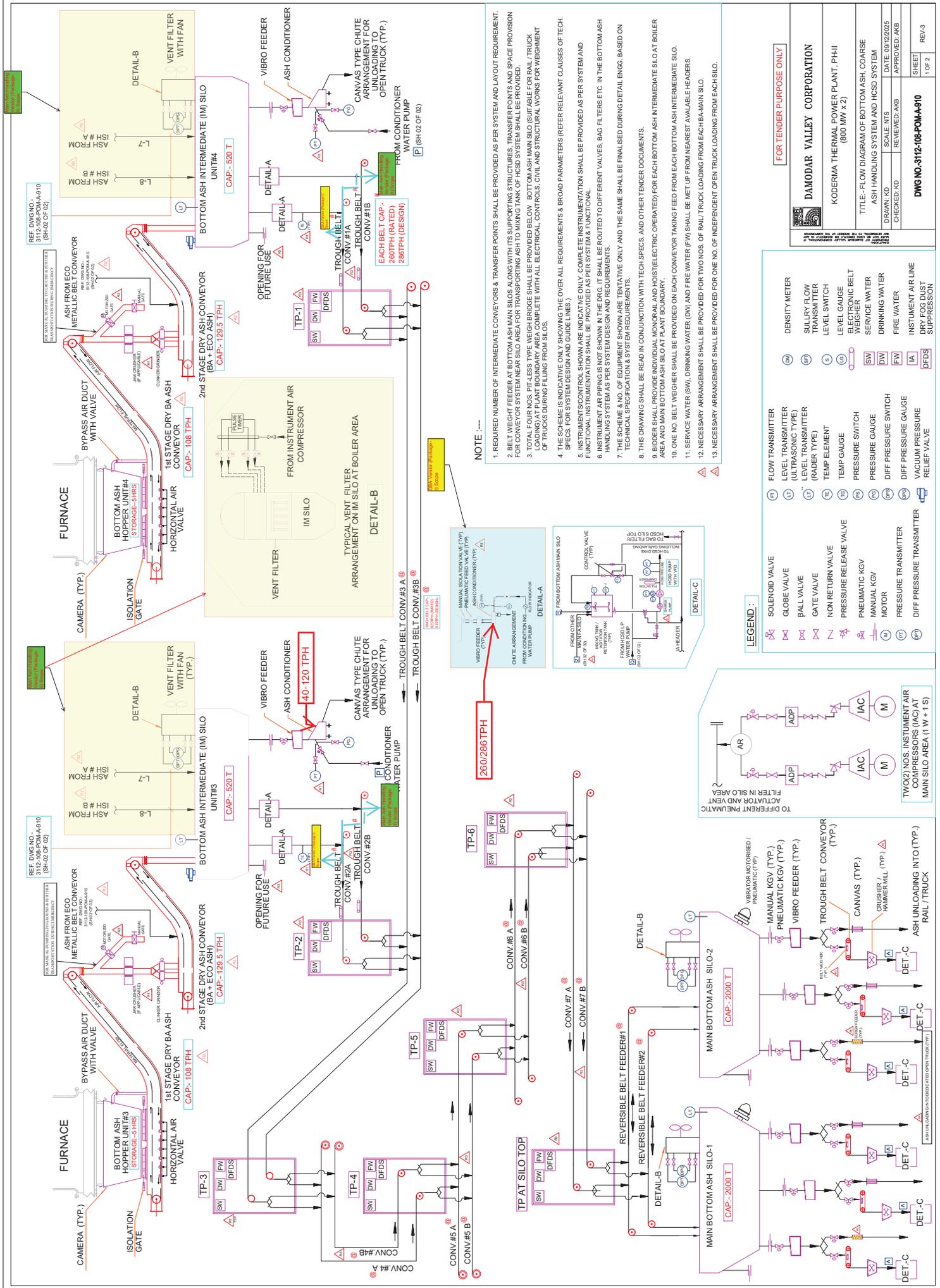
KODERMA THERMAL POWER PLANT, PH-II
(800 MW x 2)

TITLE:- FLOW DIAGRAM OF BOTTOM ASH, COARSE ASH HANDLING SYSTEM AND HCSD SYSTEM

DRAWN: KD	SCALE: NTS	DATE: 09/12/2025
CHECKED: KD	REVIEWED: AKB	APPROVED: AKB

DWG NO.-3112-108-POM-A-910

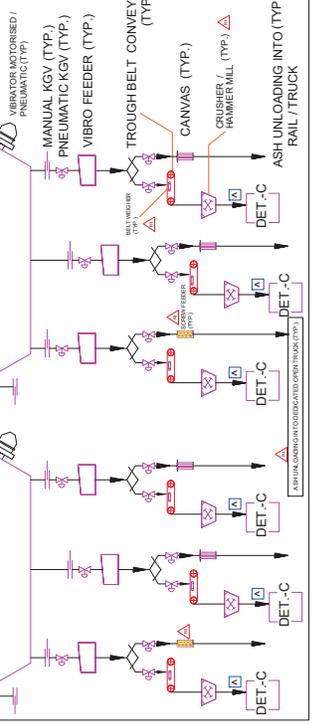
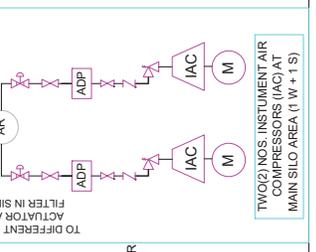
SHEET 1 OF 2	REV-3
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- NOTE :-**
1. REQUIRED NUMBER OF INTERMEDIATE CONVEYORS & TRANSFER POINTS SHALL BE PROVIDED AS PER SYSTEM AND LAYOUT REQUIREMENT.
 2. BELT WEIGHT FEEDER AT BOTTOM ASH MAIN SILOS ALONG WITH ITS SUPPORTING STRUCTURES, TRANSFER POINTS AND SPACE PROVISION FOR CONVEYOR SYSTEM NEAR SILO AREA FOR TRANSPORTING ASH TO MIXING TANK OF HCSD SYSTEM SHALL BE PROVIDED.
 3. TOTAL FOUR NOS. PIT-LESS TYPE WEIGH BRIDGE SHALL BE PROVIDED BELOW BOTTOM ASH MAIN SILO (SUITABLE FOR RAIL/TRUCK LOADING) AT PLANT BOUNDARY AREA COMPLETE WITH ALL ELECTRICAL CONTROLS, CIVIL AND STRUCTURAL WORKS FOR WEIGHING OF TRUCKS DURING DUMPING FROM SILOS.
 4. THE SCHEME IS INDICATIVE ONLY SHOWING THE OVER ALL REQUIREMENTS & BROAD PARAMETERS (REFER RELEVANT CLAUSES OF TECH. SPECS. FOR SYSTEM DESIGN AND GUIDE LINES).
 5. INSTRUMENTATION CONTROL SHOWN ARE INDICATIVE ONLY. COMPLETE INSTRUMENTATION SHALL BE PROVIDED AS PER SYSTEM AND FUNCTIONAL INSTRUMENTATION SHALL BE PROVIDED AS PER SYSTEM & FUNCTIONAL.
 6. INSTRUMENT AIR PIPING IS NOT SHOWN IN THE DRG. IT SHALL BE ROUTED TO DIFFERENT VALVES, BAG FILTERS ETC. IN THE BOTTOM ASH HANDLING SYSTEMS AS PER SYSTEM DESIGN AND REQUIREMENTS.
 7. THE SCHEME & NO. OF EQUIPMENT SHOWN ARE TENTATIVE ONLY AND THE SAME SHALL BE FINALISED DURING DETAIL ENGS. BASED ON TECHNICAL SPECIFICATION & SYSTEM REQUIREMENTS.
 8. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH TECH SPECS. AND OTHER TENDER DOCUMENTS.
 9. BIDDERS SHALL PROVIDE INDIVIDUAL MONORAIL AND HOIST (ELECTRIC OPERATED) FOR EACH BOTTOM ASH INTERMEDIATE SILO AT BOILER AREA AND MAIN BOTTOM ASH SILO AT PLANT BOUNDARY.
 10. ONE NO. BELT WEIGHERS SHALL BE PROVIDED ON EACH CONVEYOR TAKING FEED FROM EACH BOTTOM ASH INTERMEDIATE SILO.
 11. SERVICE WATER (SW), DRINKING WATER (DW) AND FIRE WATER (FW) SHALL BE MET UP FROM NEAREST AVAILABLE HEADERS.
 12. NECESSARY ARRANGEMENT SHALL BE PROVIDED FOR TWO NOS. OF RAIL/TRUCK LOADING FROM EACH MAIN SILO.
 13. NECESSARY ARRANGEMENT SHALL BE PROVIDED FOR ONE NO. OF INDEPENDENT OPEN TRUCK LOADINGS FROM EACH SILO.

LEGEND :

	SOLENOID VALVE
	GLOBE VALVE
	BALL VALVE
	GATE VALVE
	NON RETURN VALVE
	PRESSURE RELEASE VALVE
	PNEUMATIC KGV
	MANUAL KGV
	PRESSURE TRANSMITTER
	DIFF PRESSURE TRANSMITTER
	FLOW TRANSMITTER
	LEVEL TRANSMITTER (ULTRASONIC TYPE)
	LEVEL TRANSMITTER (RADAR TYPE)
	TEMP ELEMENT
	TEMP GAUGE
	PRESSURE SWITCH
	PRESSURE GAUGE
	DIFF PRESSURE GAUGE
	VACUUM PRESSURE RELIEF VALVE
	DENSITY METER
	SULLEY FLOW TRANSMITTER
	LEVEL SWITCH
	ELECTRONIC BELT WEIGHER
	SERVICE WATER
	DRINKING WATER
	FIRE WATER
	INSTRUMENT AIR LINE
	DRY FOG DUST SUPPRESSION



FOR TENDER PURPOSE ONLY

DAMODAR VALLEY CORPORATION

KODERMA THERMAL POWER PLANT, PHII
(800 MW x 2)

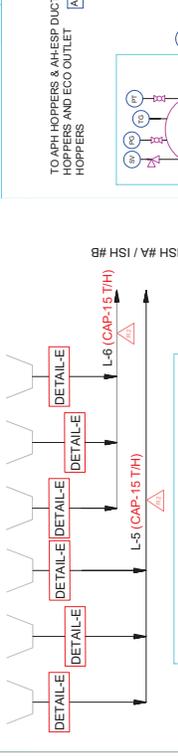
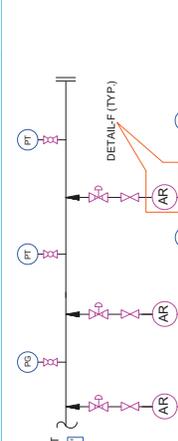
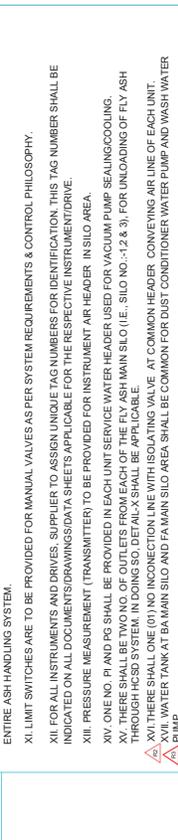
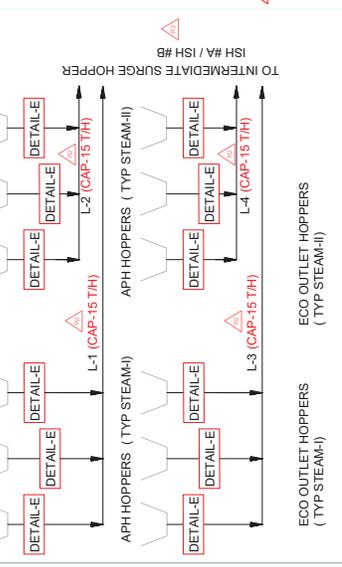
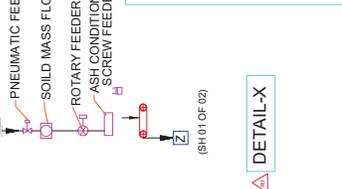
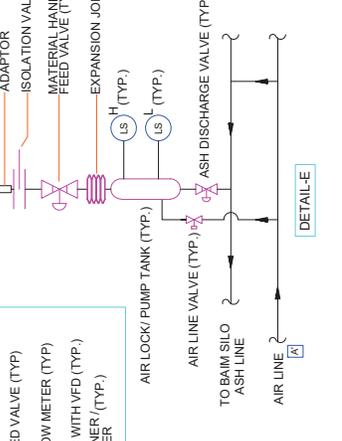
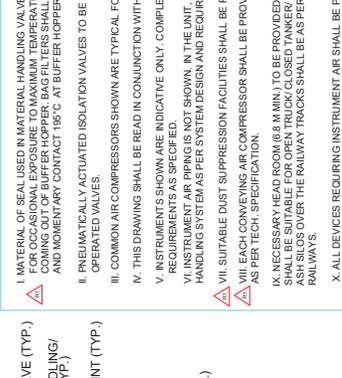
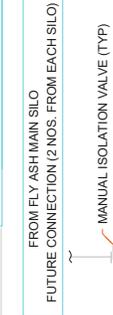
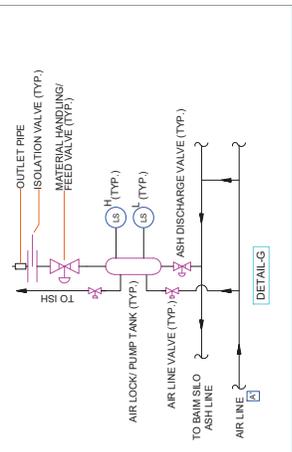
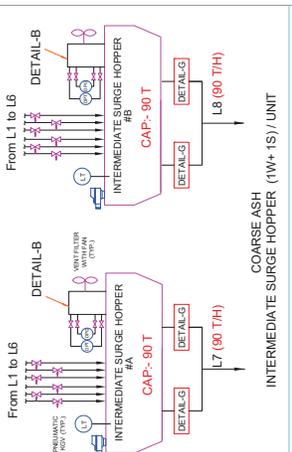
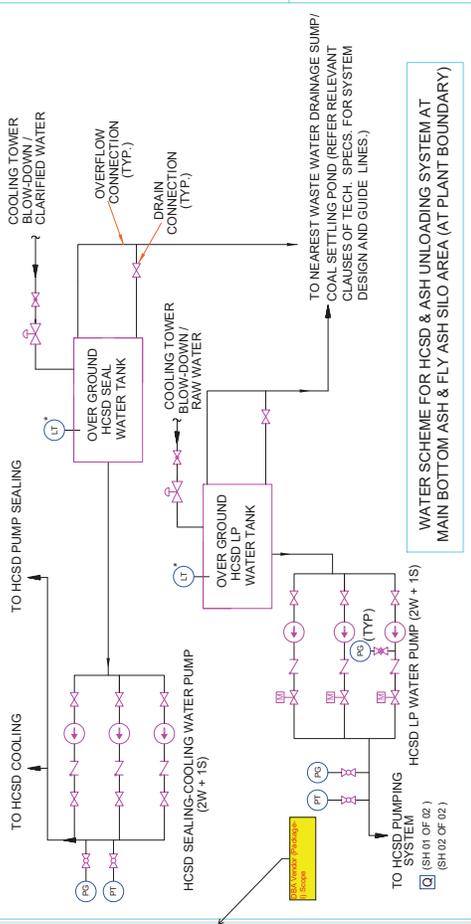
TITLE:- FLOW DIAGRAM OF BOTTOM ASH, COARSE ASH HANDLING SYSTEM AND HCSD SYSTEM
(800 MW x 2)

DRAWN: KD	SCALE: NTS	DATE: 08/12/2023
CHECKED: KD	REVIEWED: ANB	APPROVED: ANB

DWG NO:- 3112-108-POM-A-910

SHEET 1 OF 2

REV-3



I. MATERIAL OF SEAL USED IN MATERIAL HANDLING VALVE SHALL BE SUITABLE FOR CONTINUOUS OPERATING TEMPERATURE AND ALSO SUITABLE FOR OCCASIONAL EXPOSURE TO MAXIMUM TEMPERATURE. BIDDER SHALL ALSO PROVIDE SUITABLE ARRANGEMENT TO TAKE CARE OF HOT AIR AND MOMENTARY CONTACT 185°C. AT BUFFER HOPPERS/ASH STORAGE SILOS.

II. PNEUMATICALLY ACTUATED ISOLATION VALVES TO BE PROVIDED BELOW EACH TYPE OF COLLECTION HOPPERS IN ADDITION TO MANUAL OPERATED VALVES.

III. COMMON AIR COMPRESSORS SHOWN ARE TYPICAL FOR EACH UNIT.

M. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH TECH. SPEC. AND OTHER TENDER DOCUMENTS.

V. INSTRUMENTS SHOWN ARE INDICATIVE ONLY. COMPLETE INSTRUMENTATION SHALL BE PROVIDED AS PER SYSTEM & FUNCTIONAL REQUIREMENTS AS SPECIFIED.

VI. VALVES SHOWN IN THE UNIT, IT SHALL BE ROUTED TO DIFFERENT VALVES, BAG FILTERS, ETC., IN FLY ASH HANDLING SYSTEMS PER SYSTEM DESIGN AND REQUIREMENTS.

VII. SUITABLE DUST SUPPRESSION FACILITIES SHALL BE PROVIDED IN BA SILO AREA DRYING TO THAT OF FA SILO AREA.

VIII. EACH CONVEYING AIR COMPRESSOR SHALL BE PROVIDED WITH INDEPENDENT AIR FEEDING PLANT OF FLY ASH AREA.

IX. NECESSARY HEAD ROOM (6.8 M MIN.) TO BE PROVIDED BELOW SILOS FOR TRUCK/ RAIL WAGON MOVEMENT. THE SILO UNLOADING FACILITY SHALL BE SUITABLE FOR OPEN TRUCK/CLOSED TANKER/RAILWAGON LOADING. HOWEVER, BIDDER SHALL ENSURE THAT THE CLEARANCE OF AIR SILOS OVER THE RAILWAY TRACKS SHALL BE AS PER RAILWAYS' ROSD GUIDELINES. THE SCOPE INCLUDES GETTING APPROVALS FROM RAILWAYS.

X. ALL DEVICES REQUIRING INSTRUMENT AIR SHALL BE PROVIDED WITH MANUAL ISOLATION VALVE IN AIR LINE. THIS IS APPLICABLE FOR THE ENTIRE ASH HANDLING SYSTEM.

XI. LIMIT SWITCHES ARE TO BE PROVIDED FOR MANUAL VALVES AS PER SYSTEM REQUIREMENTS & CONTROL PHILOSOPHY.

XII. FOR ALL INSTRUMENTS AND DRIVES, SUPPLIER TO ASSIGN UNIQUE TAG NUMBERS FOR IDENTIFICATION. THIS TAG NUMBER SHALL BE INDICATED ON ALL DOCUMENTS/DRAWINGS/DATA SHEETS APPLICABLE FOR THE RESPECTIVE INSTRUMENT/DRIVE.

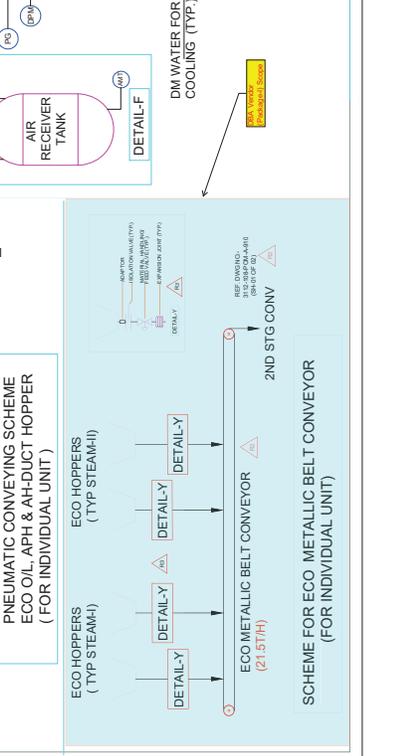
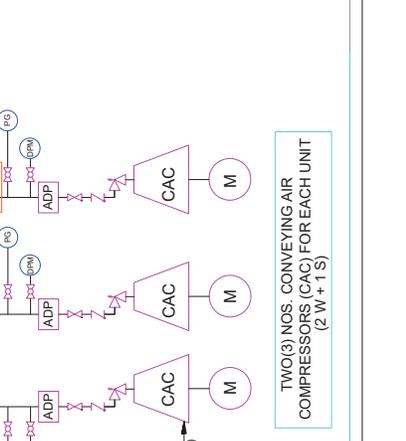
XIII. PRESSURE MEASUREMENT (TRANSMITTER) TO BE PROVIDED FOR INSTRUMENT AIR HEADER IN SILO AREA.

XIV. ONE NO. PI AND PG SHALL BE PROVIDED IN EACH UNIT SERVICE WATER HEADER USED FOR VACUUM PUMP SEALING/Cooling.

XV. THERE SHALL BE TWO NO. OF OUTLETS FROM EACH OF THE FLY ASH MAIN SILO (I.E. SILO NO.-1,2 & 3). FOR UNLOADING OF FLY ASH THROUGH HCSD SYSTEM. IN DOING SO, DETAIL-X SHALL BE APPLICABLE.

XVI. THERE SHALL BE ONE (01) NO. CONNECTION LINE WITH ISOLATING VALVE AT COMMON HEADER CONVEYING AIR LINE OF EACH UNIT.

XVII. WATER TANK AT BAIN SILO AND FA MAIN SILO AREA SHALL BE COMMON FOR DUST CONDITIONER WATER PUMP AND WASH WATER PUMP.



DVC-KTPH PH-II (2x800MW) EPC PACKAGE CHANGE PROPOSAL**AMENDMENT NO. 7 TO BID SPECIFICATION**

S. NO.	SPECIFICATION REFERENCE				EXISTING (As per Base Specification)				SHALL BE READ AS			
	SEC/PART	SUB SEC	PAGE NO.	CLAUSE NO.	S L. N O	DE-SCR IPTION	PERFORMANCE GUARANTEE PARAMETERS	REMARKS	S L. N O	DE-SCR IPTION	PERFORMANCE GUARANTEE PARAMETERS	REMARKS
1	AMENDMENT NO.5 TO TECHNICAL SPECIFICATION(SECTION VI/B)		1 of 2	Sl. No. 2	A	Dry Bottom ash handling system,	The functional guarantee is following: - 1. Dry BA conveyor (1st and 2nd conveyor) capacity: Ash at 100% TMCR Load with worst coal 2. Dry Eco conveyor (1st and 2nd conveyor) capacity: Ash at 100% TMCR Load with worst coal 3. Pre-crusher/Jaw crusher (As applicable) capacity: Ash at 100% TMCR Load with worst coal 4. Primary crusher capacity: Ash at 100% TMCR Load with worst coal 5. Secondary crusher/Hammer Mill capacity: Ash at 100% TMCR Load with worst coal and designed particle output size (-) 25 mm. 6. Vibrating feeder capacity before feeding to Ash Conditioner at BAIM Silo for Open Truck: 130TPH 7. Vibrating feeder capacity before feeding to Ash Conditioner at BAIM Silo for Belt Conveyor: 260 TPH	In case the performance test does not reach the stated figures of technical performance after one or more trials, the performance test shall be repeated after some regulations or modifications implemented with permission from DVC/BHEL.	A	Dry Bottom ash handling system,	The functional guarantee is following: - 1. Dry BA (without ECO) conveyor (1st and 2nd conveyor) capacity: 108 TPH 2. Dry BA with ECO conveyor (1st and 2nd conveyor-as applicable) capacity: 129.5 TPH 3. Dry Eco conveyor (1st and 2nd conveyor) capacity: 21.5 TPH 4. Pre-crusher/Jaw crusher (As applicable) capacity: 108 TPH 5. Primary crusher capacity (without ECO Ash-As Applicable) : 108 TPH 6. Primary crusher capacity (with ECO Ash-As Applicable): 129.5 TPH 7. Secondary crusher capacity (without ECO Ash-As Applicable): 108 TPH and	In case the performance test does not reach the stated figures of technical performance after one or more trials, the performance test shall be repeated after some regulations or modifications implemented with permission from DVC/BHEL.

**KODERMA TPS PH-II (2x800 MW)
EPC PACKAGE CHANGE PROPOSAL
BIDDING DOCUMENT NO.:**

AMENDMENT NO.7

Page 1 of 2

DVC-KTPH PH-II (2x800MW) EPC PACKAGE CHANGE PROPOSAL

AMENDMENT NO. 7 TO BID SPECIFICATION

S. NO.	SPECIFICATION REFERENCE				EXISTING (As per Base Specification)		SHALL BE READ AS	
	SEC/PART	SUB SEC .	PAGE NO.	CLAUSE NO.				
						8. Maximum conveying and crushing capacity: 3 hours 15 mins bottom ash generation to be evacuated in 2 hours. (@100% TMCR Load with worst coal)		<p>designed particle output size (-) 25 mm (min. 90% of BA Particle)</p> <p>8. Secondary crusher capacity (with ECO Ash-As Applicable): 129.5 TPH and designed particle output size (-) 25 mm (min. 90% of BA Particle)</p> <p>9. Vibrating feeder capacity before feeding to Ash Conditioner at BAIM Silo for Open Truck: 120TPH</p> <p>10. Vibrating feeder capacity before feeding to Ash Conditioner at BAIM Silo for Belt Conveyor: 260 TPH</p>

Annexure-4 to Corrigendum-X

MP.2024.0162-TNG

R00 Data: 2025.12.23

DVC Koderma (2 x 800 MW)

Technical note: Cooling air and water requirements

DRY BOTTOM ASH HANDLING SYSTEM

Consider 14.4 in all conditions as per Technical corrigendum-1

Guaranteed Loads		100% TMCR	55% TMCR	100% TMCR	100% BMCR	100% BMCR	Note
		Design Coal	Design Coal	Worst Coal	Design Coal	Worst Coal	
Bottom Ash collection	t/h	37,3	21,5	52,7	50,4	71,6	BHEL update 2025.12.16 Corrigendum-IV
Bottom Ash temperature	°C	1.040	1.040	1.040	1.100	1.100	
Economizer ash production	t/h	7,5	4,3	10,5	10,1	14,4	Bottom ash to econo BHEL indicated only
Economizer ash temperature	°C	346	303	352	360	360	BHEL update 2025.1
Bottom ash & Economizer ash temperature @ outlet of 2 nd conveyor	°C	300	300	300	150	150	
Total combustion air (TCA)	t/h	2.701	1.552	2.801	2.926	3.058	
Cooling air for Bottom ash & Eco ash (limited to 2,5% of TCA)	t/h	67,5	38,8	70,0	73,2	76,5	
Cooling water requirement	t/h	0	0	up to 7.7	up to 9.9	up to 18	MP preliminary evaluation

Provide ECO ash temperature at discharge of 2nd eco ash conveyor also

Kindly read as 3048

Provide the air requirement separately for bottom ash and eco ash

Cooling Air Quantities have direct impact on boiler exit gas temperature & efficiency and cooling air shall be measured during boiler PG Test. Kindly provide the detail procedure of flow measurements.

The values of cooling air mass flow and cooling water rate have to be intended as "preliminary".

**BANK GUARANTEE FOR SUPPLY OF PLANT & EQUIPMENT
AGAINST APPROVAL OF BASIC/DETAIL ENGINEERING DRAWINGS/DOCUMENTS**

(To be stamped in accordance with Stamp Act of India)

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____ through its Unit at.....(name of the Unit) having awarded to..... (Name of the Vendor / Contractor / Supplier), with its registered office at _____ (hereinafter called "the Vendor/Contractor/Supplier" which expression shall include its successors and permitted assigns) a contract Ref

No.....datedvalued at Rs..... (Rupees -----)/FC..... (in words.....) for (hereinafter called the 'Contract')

AND WHEREAS the Employer has agreed to advance to the Vendor/Contractor/Supplier, a sum of Rs..... (Rupees..... only), equivalent to _____% of the said value of the Contract (hereinafter called "the said Advance"), upon the condition, that the said Advance shall be secured by a guarantee for Rs/ FC ----- (Rupees/ FC -----) from a Bank as hereinafter appearing.

We,, (hereinafter referred to as the Bank), having registered/Head office at and a branch at being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount but not exceeding Rs/FC ----- (Rupees/FC -----) without any demur, merely on your first demand and without any reservation, protest and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor/Contractor/Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the Vendor/Contractor/supplier shall have no claim against us for making such payment.

We, theBank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We>>>> Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor/Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor/Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor/Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor/Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor/Contractor/Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor/Contractor/Supplier's liabilities.

This Guarantee shall remain in force upto and including..... and shall be extended from time to time on the request of the Employer for such period as may be desired by the Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor/Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms hereof. However, unless a demand or claim under this Guarantee is made on us in writing on or before the we shall be discharged from all liabilities under this Guarantee.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

This Bank Guarantee shall be governed, construed and interpreted in accordance with the laws of India.

Courts at shall alone have exclusive jurisdiction over any matter arising out of or in connection with this Bank Guarantee

Notwithstanding anything to the contrary contained hereinabove:

- The liability of the Bank under this Guarantee shall not exceed.....
- This Guarantee shall be valid up to
- Unless the Bank is served a written claim or demand on or before _____ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Date.....

Place of Issue.....

¹ NAME AND ADDRESS OF THE EMPLOYER. i.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF VENDOR /CONTRACTOR / SUPPLIER

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ CONTRACT VALUE AND PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Bidders are advised that expiry of claim period may be kept 3-6 months after validity date.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the

State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.

3. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the BHEL Unit is located.
- b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** (BHEL's Consortium Bank list mentioned elsewhere in the contract) will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2** **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3** The Bank Guarantee issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time).