

**Work Description - EPC PACKAGE FOR ASH HANDLING PLANT, COAL HANDLING PLANT and MILL REJECT HANDLING SYSTEM AT DVC RAGHUNATHPUR TPS PHASE-II (2X660MW) STEAM GENERATOR (SG) ISLAND PACKAGE.**

**A) The following clauses of Technical Conditions of Contract (TCC) are modified as mentioned below:**

SL. NO.	Document/ Reference Clause	Existing Clause	Revised As
1.	Technical Specifications of the Contract (TCC), Chapter-VII Terms of Payment of TCC - Clause no 7.1.9 – Notes: (3)	3. In case Installation Price (excluding Civil/Structural works price) is less than 18 % of the Ex-works Price of Main Equipment, the amount by which it is lower shall be retained proportionately from the Ex-works component of Contract price while releasing payments due on receipt of equipment, and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of installation of the respective equipment and its certification by the owner/customer/ BHEL.	3. In case Installation Price (excluding Civil and Site Fabricated Structural works price) <b>is less than 10 % of Total Contract Value</b> , the amount by which it is lower shall be retained proportionately from the Ex-works component of Contract price while releasing payments due on receipt of equipment, and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of installation of the respective equipment and its certification by the owner/customer/ BHEL.
2.	Technical Specifications of the Contract (TCC), Chapter-VII Terms of Payment of TCC - Clause no 7.1.9 – Notes: (4)	4. VOID	<p><b>4. (a)</b> In case the Civil Works Price (including Site Fabricated Structural works price) is less than <b>30 % of Total Contract Value</b>, the amount by which it is lower shall be retained proportionately from the Ex-Works component of Contract price while releasing payments due on dispatch of equipment, and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of Civil Works including Structural works (if any) corresponding to the respective equipment and its certification by the owner/customer/ BHEL.</p> <p><b>4. (b)</b> In case the Civil Works Price (including Site Fabricated Structural Works Price) is more than <b>50 % of Total Contract Value</b>, the amount by which it is higher shall be retained while releasing progressive payments due on completion of civil works (including Site Fabricated Structural works), and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of Civil Works including Structural</p>

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			works (if any) corresponding to the respective equipment and its certification by the owner/customer/ BHEL.
3.	Technical Specifications of the Contract (TCC), Chapter-VII Terms of Payment of TCC - Clause no 7.12 - Billing Break UP (BBU) - (a)	<p><b>a)</b> Bidders are advised to price their bids in such a manner that Installation Price Component of the bid price (excluding Civil/Structural works price) should not be less than 18% of the cumulative total Ex-works Price of Main Equipment.</p> <p>In case the Installation Price is below the minimum percentage specified above, the amount by which it is lower shall be retained proportionately from Ex-Works component of Contract price while releasing payments due on receipt of equipment, and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of installation of the respective equipment and its certification by the owner/customer/ BHEL.</p>	<p>Bidders are advised to price their bids in such a manner that Installation Price Component of the bid price (excluding Civil/Structural works price) should not be less than <b>10% of the Total Contract Value</b>.</p> <p>In case the Installation Price is below the minimum percentage specified above, the amount by which it is lower shall be retained proportionately from Ex-Works component of Contract price while releasing payments due on receipt of equipment, and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of installation of the respective equipment and its certification by the owner/customer/ BHEL.</p>
4.	Technical Specifications of the Contract (TCC), Chapter-VII Terms of Payment of TCC - Clause no 7.12 – Billing Break UP (BBU) - (b)	<p><b>b)</b> " Bidders are advised to price their bids in such a manner that the Civil Works Price Component of the bid price (including Site Fabricated Structural works price) should not be less than 20% of the cumulative total Ex-works Price of Main Equipment.</p> <p>In case the Civil Works Price (including Site Fabricated Structural works price) is below the minimum percentage specified above, the amount by which it is lower shall be retained proportionately from Ex- Works component of Contract price while releasing payments due on dispatch of equipment, and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of Civil Works including Structural works (if any) corresponding to the respective equipment and its certification by the owner/customer/ BHEL. "</p> <p>*The price break-up shall be interlinked.....</p>	<p><b>b)</b> " Bidders are advised to price their bids in such a manner that the Civil Works Price Component of the bid price (including Site Fabricated Structural works price) should be in the <b>range of 30-50 % of the total contract value</b>.</p> <p>In case the Civil Works Price (including Site Fabricated Structural works price) is below the minimum percentage specified above, the amount by which it is lower shall be retained proportionately from Ex- Works component of Contract price while releasing payments due on dispatch of equipment, and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of Civil Works including Structural works (if any) corresponding to the respective equipment and its certification by the owner/customer/BHEL.</p> <p>In case the Civil Works Price (including Site Fabricated Structural works price) is above the specified percentage specified above, the amount by which it is higher shall be retained while releasing progressive payments due on</p>

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			<p>completion of civil works (including Site Fabricated Structural works), and no interest shall be payable on the retained amount. The aforesaid retained amount shall be paid on pro-rata basis upon completion of Civil Works including Structural works (if any) corresponding to the respective equipment and its certification by the owner/customer/ BHEL."</p> <p>*The price break-up shall be interlinked.....</p> <p><b>* Remaining part will remain same as original TCC Clause.</b></p>
5.	Technical Specifications of the Contract (TCC), Chapter-VII Terms of Payment of TCC - Clause no 7.15.1	<p><b>Secured Recoverable Advances:</b> Interest Free Secured Mobilization Advance. will be payable under exceptional circumstances on certification of BHEL Construction Manager at Site.</p> <p>5% of Interest Free Mobilization Advance shall be applicable only on Total Civil + Installation/ Erection + Structural Works in line with the Approved BBU.</p> <p>1) For Establishment of Site Office and Posting of Site Manager and team consisting of Construction/Erection Engineers, Quality Engineer, Safety Engineer etc. as required in Site Office – 1 %.</p> <p>2) For Start of Civil Works at Site including the Mobilization of the Required T &amp; P as required for execution of the Civil Works at site - 2 %.</p> <p>3) For Start of Structural Fabrication Works including the Establishment of Site Facilities, Deployment of T &amp; Ps as required– 2 %.</p> <p>The Requirements of T&amp;Ps for the start of works defined in (b) and (c) shall be in line with the Project Requirement and as certified by the owner/customer/ BHEL.</p>	<p><b>Secured Recoverable Advances:</b> Interest Free Secured Mobilization Advance. will be payable under exceptional circumstances on certification of BHEL Construction Manager at Site.</p> <p>5% of Interest Free Mobilization Advance shall be applicable only on Total Civil + Installation/ Erection + Structural Works in line with the Approved BBU.</p> <p>1) For Establishment of Site Office and Posting of Site Manager and team consisting of Construction/ Erection Engineers, Quality Engineer, Safety Engineer etc. as required in Site Office – <b>1 %.</b></p> <p>2) For Start of Civil Works at Site including the Mobilization of the Required T&amp;Ps as required for execution of the Civil Works at site – <b>1.5 %.</b></p> <p>3) For Start of Structural Fabrication Works including the Establishment of Site Facilities, Deployment of T&amp;Ps as required– <b>1.5 %.</b></p> <p>4) For Start of Installation of the Major Supplies of the Package– <b>1 %.</b> <b>Major Supplies for the package include Bottom Ash Hopper, Ash Slurry Pumps, Vacuum Compressors/Vacuum Pumps.</b></p>

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<b>SL. NO.</b>	<b>Document/ Reference Clause</b>	<b>Existing Clause</b>	<b>Revised As</b>
		<p><b>Note:</b></p> <p>1. BHEL Site-CM shall be the deciding authority for assessing the admissibility of advance payment to contractor.</p> <p>2. In case contractor do not fulfil the agreed conditions of payment of earlier mobilization advance, BHEL Construction Manager will have the authority to not allow the subsequent mobilization advance to contractor.</p>	<p>-</p> <p>The Requirements of T&amp;Ps for the start of works defined in (2) and (3) shall be in line with the Project Requirement and as certified by the project manager of BHEL.</p> <p><b>Note:</b> -</p> <p>1. BHEL Site-CM shall be the deciding authority for assessing the admissibility of advance payment to contractor.</p> <p>2. In case contractor do not fulfil the agreed conditions of payment of earlier mobilization advance, BHEL Construction Manager will have the authority to not allow the subsequent mobilization advance to contractor.</p> <p>3. Advance payment shall be released within 45 days of receipt of a complete and valid set of documents required for claiming advance payment, in accordance with the provisions of the tender.</p>

**B) The following Additional Document is added as mentioned below and attached along with this corrigendum:**

<b>SL. NO.</b>	<b>Document/ Reference Clause</b>	<b>Existing Clause</b>	<b>New Clause</b>
1.	New Annexure added as Annexure-23 in Chapter-16 of Technical Specifications of the Contract	-	Annexure-23 - MRHS Electrical and Civil Scope matrix

**C) Some of the Bidder sought clarifications in regard to published tender specification. The clarification issued by BHEL are as below:**

<b>SL. NO.</b>	<b>Reference Clause</b>	<b>Specification</b>	<b>Bidder's Query</b>	<b>BHEL's Clarification</b>
1	ANNEXURE-05: Guaranteed Power Consumption for AHP Package to be filled in by bidder	Guaranteed Power consumption of ash handling system	Sl. No. A.8.i, Fly ash conveying air compressors with air drying plant (ADP), the quantity of compressors & ADP mentioned corresponds to only one (1) Unit, whilst the package is for two (2) Units. This is affecting the not to exceed total guaranteed power consumption figure. Therefore, a revised increased not to exceed total guaranteed power consumption figure may please be furnished.	Bidder to refer revised Annexure-5 (Rev-01) attached along with this corrigendum.

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**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).**

**for BHARAT HEAVY ELECTRICALS LTD  
Manager/ SCT- CPC**

**Annexure-23 - MRHS Electrical and Civil Scope matrix**

## ELECTRICAL SCOPE BETWEEN BHEL AND VENDOR

PACKAGES: MILL REJECT SYSTEM

SCOPE OF VENDOR: SUPPLY, ERECTION &amp; COMMISSIONING OF VENDOR'S EQUIPMENT

S.NO	DETAILS	SCOPE SUPPLY	SCOPE E&C	REMARKS
1	415V MCC / 3.3 KV (If Applicable)	BHEL	BHEL	<p>a) 240 V AC (supply feeder)/415 V AC (3 PHASE 4 WIRE) supply shall be provided by BHEL as per load data provided by vendor at contract stage for all equipment supplied by vendor as part of contract. However, Emergency power supply shall be 415V, 3 phase, 3 wire only. Any single-phase emergency power requirement shall be derived by vendor.</p> <p>b) 230 V AC UPS Power supply shall be provided by BHEL at a single point, All necessary hardware for deriving other power supply including 24V from given feeder shall be in Vendor's scope.</p> <p>c) HT motor (If applicable), (Motor feeder (3 PHASE 3 WIRE) power supply shall be provided by BHEL</p>
2	Local Push Button Station (for motors)	BHEL	BHEL	Located near the motor.
3	Power cables, control cables and screened control cables for a) both end equipment in BHEL's scope b) both end equipment in vendor's scope c) one end equipment in vendor's scope	BHEL Vendor BHEL	BHEL Vendor BHEL	<p>1. For 3.b) &amp; c): Sizes of cables required shall be informed by vendor at contract stage (based on inputs provided by BHEL) in the form of cable listing. Finalisation of cable sizes shall be done by BHEL. Vendor shall provide lugs &amp; glands accordingly.</p> <p>2. Termination at BHEL equipment terminals by BHEL.</p> <p>3. Termination at Vendor equipment terminals by Vendor.</p>
5	Cable trays, accessories & cable trays supporting system for a) both end equipment in BHEL's scope b) both end equipment in vendor's scope c) one end equipment in vendor's scope	BHEL Vendor BHEL	BHEL Vendor BHEL	Local cabling shall be through 100/ 50 mm cable trays/ conduits/ Galvanised steel cable troughs, as per approved layout drawing during contract stage for cabling between equipment supplied by vendor.
6	Cable glands, lugs and bimetallic washers for equipment supplied by Vendor	Vendor	Vendor	Bimetallic washers shall be used for bimetallic connections.
7	Junction box for control & instrumentation cable	Vendor	Vendor	Number of Junction Boxes shall be sufficient and positioned in the field to minimize local cabling.
8	Lighting (for Control room in Vendor's scope, if any)	Vendor	Vendor	
9	Equipment grounding (including electronic earthing) &	Vendor	Vendor	Vendor shall indicate location of Electronic Earth pit in their Civil

## ELECTRICAL SCOPE BETWEEN BHEL AND VENDOR

PACKAGES: MILL REJECT SYSTEM

SCOPE OF VENDOR: SUPPLY, ERECTION &amp; COMMISSIONING OF VENDOR'S EQUIPMENT

S.NO	DETAILS	SCOPE SUPPLY	SCOPE E&C	REMARKS
	lightning protection			assignment drawing
10	Below grade grounding	BHEL	BHEL	
11	Motors with base plate and foundation hardware	Vendor	Vendor	
12	Any other equipment/ material/ service required for completeness of system based on system offered by the vendor (to ensure trouble free and efficient operation of the system).	Vendor	Vendor	In case the requirement of Junction Box arises on account of Power Cable size mis-match due to vendor engineering at later stage, vendor shall supply the Junction Box for suitable termination
13	a) Input cable schedules (Control & Screened Control Cables) b) Cable interconnection details for above c) Cable block diagram	Vendor Vendor Vendor	- - -	Cable listing for Control and Instrumentation Cable and electronic earthing cable in enclosed excel format shall be submitted by vendor during detailed engineering stage.
14	Electrical Equipment & cable tray layout drawings	Vendor	-	For ensuring cabling requirements are met, vendor shall furnish Electrical equipment layout & cable tray layout drawings (both in print form as well as in AUTOCAD) of the complete plant (including electrical area) indicating location and identification of all equipment requiring cabling, and shall incorporate cable trays routing details marked on the drawing as per BHEL interface comments. Cabling arrangement of the same (wherever overhead cable trays, trenches, cable ducts, conduits etc.) shall be decided during contract stage. Electrical equipment layout & cable tray layout drawing shall be subjected to BHEL/ customer approval without any commercial implications to BHEL.

## **SCOPE MATRIX FOR MRS (Civil & Electrical)**

~~Two separate EPC packages are being considered as mentioned:~~

**a)** Mechanical conveyor type MRS to be clubbed together with CHP as one package.

~~**b)** Pneumatic conveyor type MRS to be clubbed together with AHP as one package.~~

### **(Civil)**

**Scope:** Inclusions under CHP/AHP vendor scope w.r.t. MRH system are as defined below:

**a)** In case of Mechanical conveyor type MRS, battery limit for civil works beyond first bay of mill bay columns shall be under CHP vendor scope (refer sketch). Following are the broad scope but not limited to as mentioned below :

- i) Pedestal/support for conveyor & conveyor walkway after mill bay battery limit.
- ii) Bucket elevator pit and associated civil work with foundation/support for bucket elevator. Sump pit in bucket elevator pit.
- iii) MRS silo and staircase foundation, pedestals and associated civil.

~~**b)** In case of Pneumatic conveyor type MRS, battery limit for civil works beyond first bay of mill bay columns shall be under AHP vendor scope (refer sketch). Following are the broad scope but not limited to as mentioned below:~~

- i) MRS silo and staircase foundation, pedestals and associated civil
- ii) Air receiver Pedestal/support near MRS but outside mill bay

**c)** All necessary supporting structural, supporting frame, short support, stringers, gallery with walkway, platforms, anchor fasteners, all insert plates, embedment plate, foundation bolts / anchor bolts etc. as required for vendor's equipment are in vendor scope for complete scope of supply (including battery & non-battery limit)

**Terminal Point – Refer annexure-I**

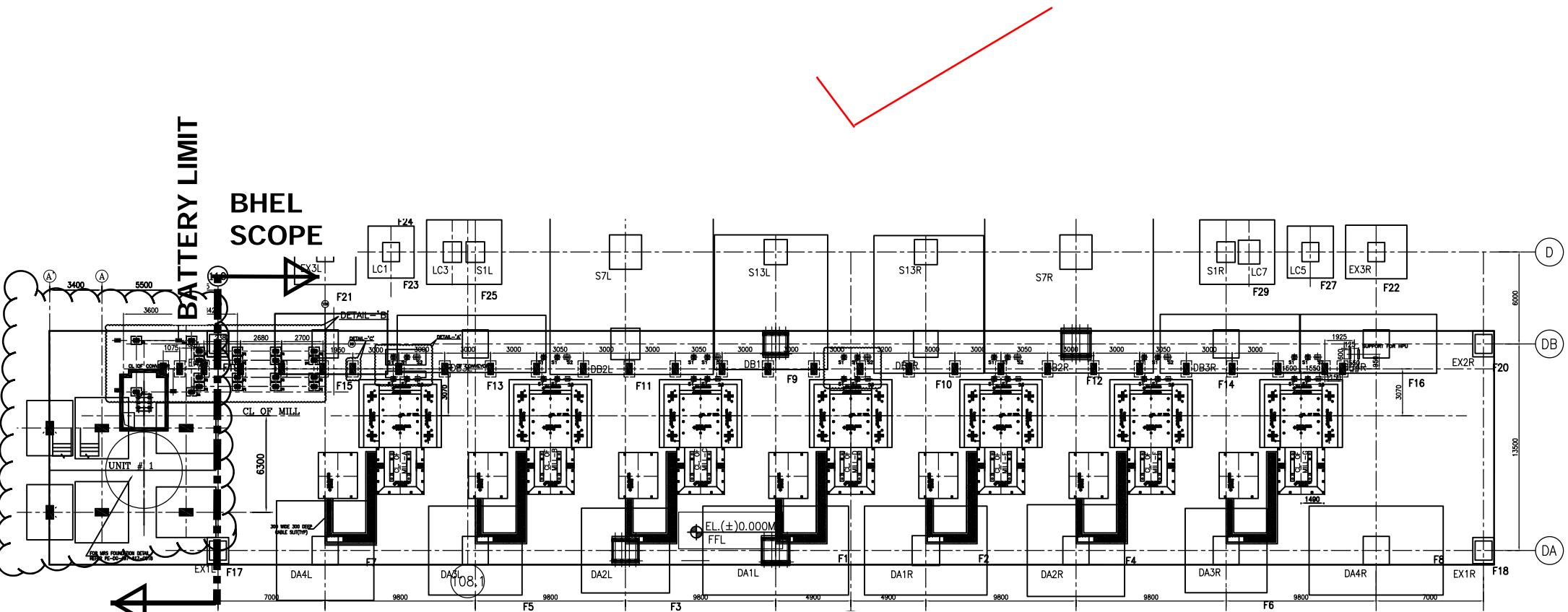
**Exclusions** - under CHP/AHP vendor scope w.r.t. MRH system are as defined below:

a) Paving in boiler/mill bay area.

~~b) Civil works for MRS compressors placed inside Compressor house & Air receiver outside Compressor house(\*)~~.

~~“\*” However, maximum size and loading on pedestals shall be furnished by vendor to BHEL immediately after placement of order. Additionally, inputs for cable slits and pipe trench shall also be furnished by CHP/AHP vendor to BHEL.~~

## **TERMINAL POINT (ANNEXURE-I)**

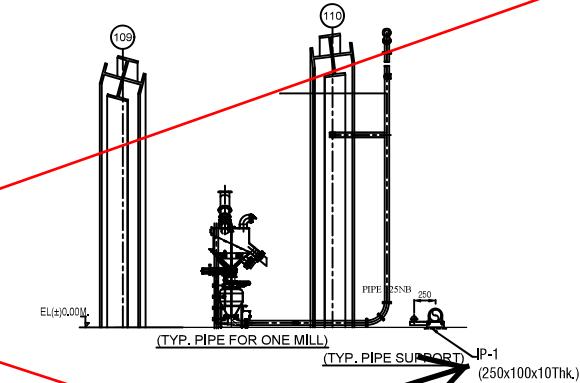


# VENDOR SCOPE

This sketch is to be referred only for defining the battery limit of civil works under CHP/AHP vendor scope.

ANNEXURE-I

All works in CHP/AHP  
Vendor scope

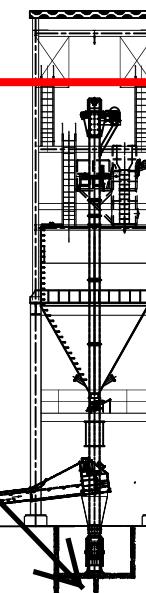


**MILL BAY AREA : All structural steel, anchor fasteners/foundation bolts, insert plates, any other fixtures required for completion of the system are in CHP/AHP vendor scope.**

~~PNEUMATIC TYPE MRS~~

**MILL BAY AREA : All structural steel, anchor fasteners/foundation bolts, insert plates, any other fixtures required for completion of the system are in CHP/AHP vendor scope.**

All works in CHP/AHP  
Vendor scope



**MECHANICAL TYPE MRS**

**Revised Annexure -5 (Rev-01)**

**2X660 MW DVC RAGHUNATHPUR TPS PHASE-II, STEAM GENERATOR (SG) ISLAND PACKAGE, WEST BENGAL**

**ANNEXURE-05: Guaranteed Power Consumption for AHP Package to be filled in by bidder**

**R-1**

Sl.No	SYSTEM	TOTAL Nos.	Working in Nos. (W)	Standby in Nos. (SB)	At motor input terminal (KW)	Total KW of Working equipment	Motor KW selected	Duty Factor	Guaranteed POWER in KW	Remarks
		I		II	III=I x II			IV	V=III x IV	
<b>A ASH HANDLING SYSTEM</b>										
A.1	Bottom Ash Crushers	12	6	6				0.3125 for jet pump system & 1.0 for submerged scrapper conveyor system		Duty factor and quantity of crushers as applicable for the offered system as per the NIT specification. Number of bottom ash Crushers as per NIT specification for submerged scrapper conveyor system are 4W + 4SB.
A.2	Bottom Ash H.P. Water Pumps	3	2	1				0.625 for jet pump system & 1.0 for submerged scrapper chain conveyor system		Duty factor as applicable for the offered system as per the NIT specification.
A.3	Bottom ash L.P. Ash Water Pumps	3	2	1				1		
A.4	Fly ash water pumps	3	2	1				1		
A.5	Bottom ash slurry transportation pumps	3	1	2				1		Qty of pumps shown is as per NIT specs. In case, number of pumps increases then same shall also be considered for guaranteed power consumption.
A.6	Combined ash slurry disposal pumps	8	4	4				0.5		Qty of pumps shown is as per NIT specs. In case, number of pumps increases then same shall also be considered for guaranteed power consumption.
A.7	Submerged scrapper chain conveyor	8	4	4				1		As applicable for the system offered.
A.8.i	Fly ash conveying air compressors with air drying plant (ADP)	10	6	4				1		As applicable for the system offered.
A.8.ii	Fly ash conveying vacuum pumps	24	12	12				1		As applicable for the system offered.
A.9	Transport air compressor with air drying plant (ADP)	10	6	4				1		As applicable for the system offered.
A.10	Coarse ash slurry transportation pumps	8	4	4				0.1875 for intermittent system & 1.0 for continuous system		Duty factor as applicable for the offered system as per the NIT specification.
A.11.i	Transport air compressor with air drying plant (ADP) for classification system- For Vacuum Conveying System	5	3	2				1		As applicable for the system offered.
A.11.ii	Transport air compressor with air drying plant (ADP) for classification system- For Pressure Conveying System	11	7	4				1		As applicable for the system offered.

**Note: Bidder to note that the guaranteed power consumption for Ash handling system shall not exceed 7200 KW.**