



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-3-Oct-18

CORRIGENDUM- 08

PROJECT	:	3X800 MW PVUNL PATRATU TPP PHASE-1
PACKAGE	:	MILL REJECT SYSTEM (CONVEYOR TYPE)
ENQUIRY NO	:	PE/PG/PA1/E-5988/2018 DTD 28/06/2018
SUBJECT	:	DUE DATE EXTENSION

Type of Corrigendum			
Technical Corrigendum -	☒	Commercial Corrigendum -	☒

In reference to the above mentioned tender enquiry for **MILL REJECT SYSTEM (CONVEYOR TYPE)** package

Please note the following.

1. Technical amendment-2 to technical specification and reply of pre-bid query is attached along with this corrigendum-08.
Vendors who have already submitted their offer, kindly review their offer and resubmit accordingly and who have not submitted their offer, consider the attached amendment and reply of pre-bid query.
2. Due date for offer submission has been extended from 03/10/2018 (2:00 pm) to 17/10/2018 (2:00 pm) and P1 shall be opened at 3:00 pm on same day.

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Yours faithfully,

For and on behalf of BHEL

Guru Das
Dy. Manager



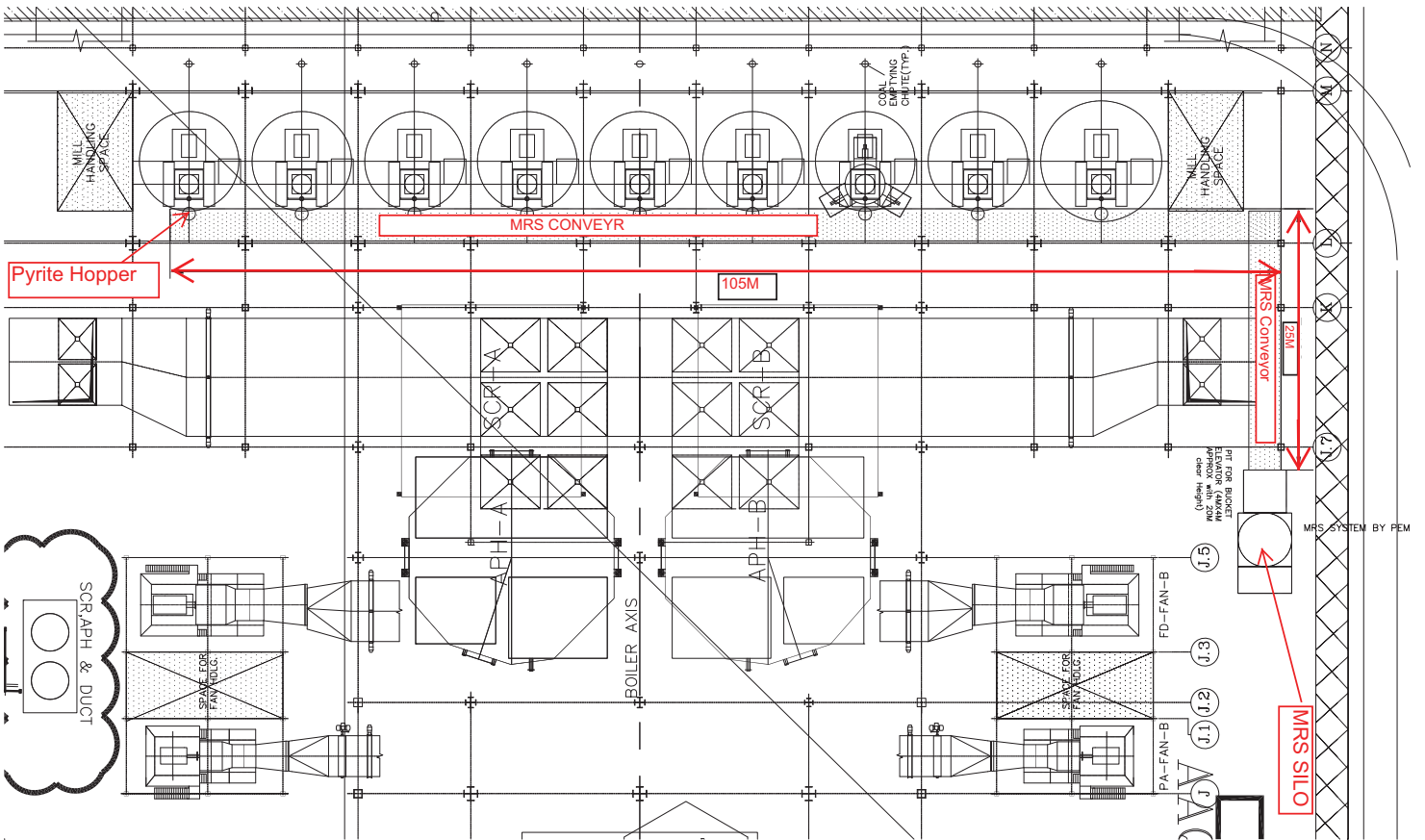
**AMENDMENT ON TECHNICAL
SPECIFICATION FOR MILL REJECT
SYSTEM (CONVEYOR TYPE)
3X800 MW PATRATU STPP**

SPECIFICATION NO. PE-TS-434-160-A101

AMENDMENT 02

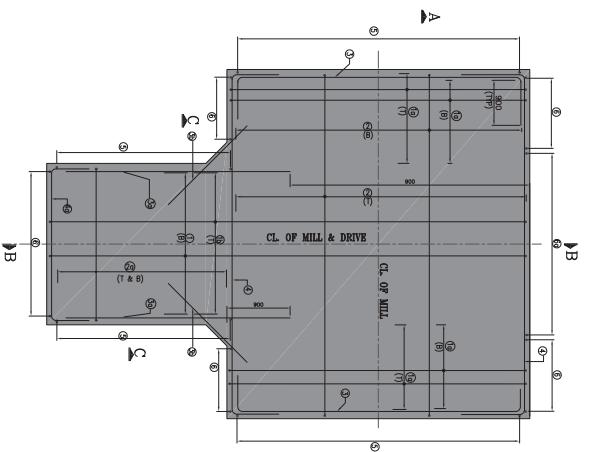
DATE 03/10/2018

Sl. no.	Cl. No.	Existing Clause	Replaced By/Clarification
1	Section-1 /Sub Sec - 1A/Annexure-X/ Page-278 of 465	Layout Drawing of MRS	Orientation of Mill have been revised. Revised layout drawing incorporating conveyor length is attached. Note: There shall be no implication for change in the length of Conveyor up-to 5M. Preliminary Mill Foundation detail is attached for reference.
2	SECTION - I/Sub Section – IA/Cl.No.3.03.00 (14)/Page no.55 of 465	800 mm walkway along both sides of conveyor for Maintenance shall be provided in the tunnel.	Clear space of 800 mm is required on both sides of conveyor in the layout.
3	SECTION - I/Sub Section –IA/ Cl.No.3.03.00 (14)/Page no.56 of 465	Belting :Suitable heat resistant and fire resistant belting shall be provided	Belting: Suitable heat resistant and fire resistant belting shall be provided. However, Chain Bucket Elevator in addition to belt type bucket elevator is acceptable subject to end customer approval during detail engineering.
4	Corrigendum-06	Annexure-1 (Erection condition of contract)	Refer Annexure-1 of Corrigendum- 6, It is written "AS Applicable". Hence, clauses which shall be applied during Erection of Mill reject system shall be applicable for the bidder.
5	Electrical Scope Matrix Sl.No.17 (Page no.283 of 464)	Electrical Equipment & cable tray layout drawings	The scope of mentioned drawings are limited to mill reject system as defined in the specification. However, matching of terminal points with plant drawings shall be ensured. These drawings shall be subjected to BHEL/customer approval without any commercial implications to BHEL.

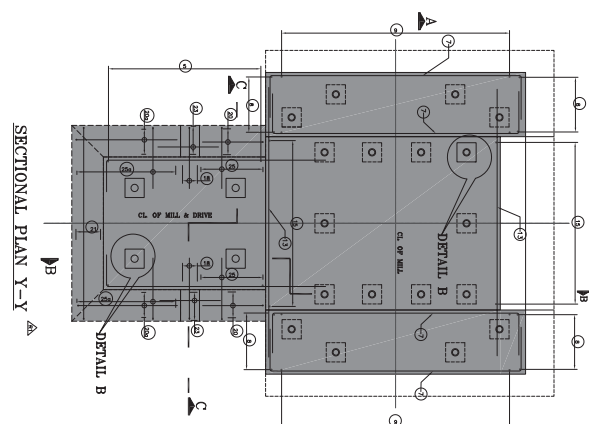


TYPICAL LAYOUT FOR UNIT-3
SAME SHALL BE APPLICABLE
FOR OTHER 2 UNITS

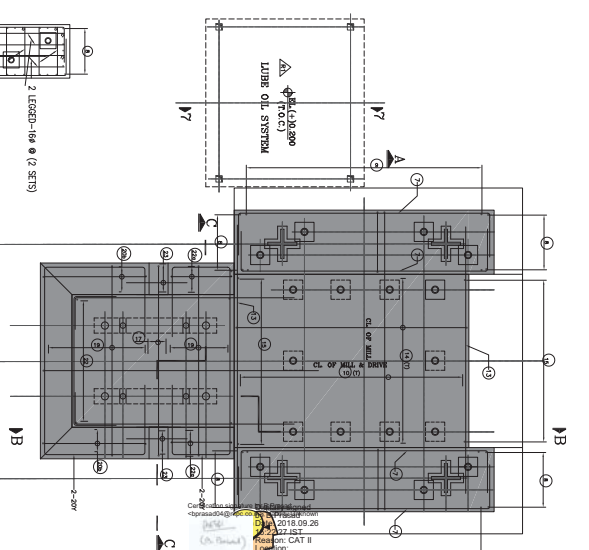
3X800 MW PATRATU STPP
MILL REJECT SYSTEM (LAYOUT FOR
UNIT-3



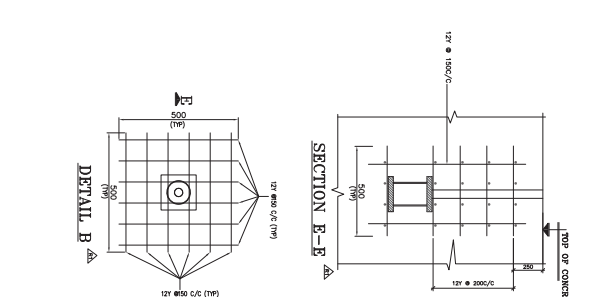
FOUNDATION PLAN



SECTIONAL PLAN Y-Y



PEDISTALS TOP PLAN



SECTION B-B

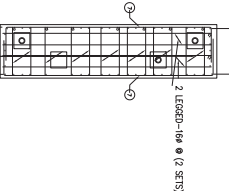


DETAIL B

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It is not to be used for any other purpose without the written consent of the company.

BAR SCHEDULE FOUNDATION A-A

BAR NO.	BAR DIA.	SPACING OF BAR
1 TO 10	20 Y	200
11 TO 20	25 Y	200
21 TO 30	20 Y	200



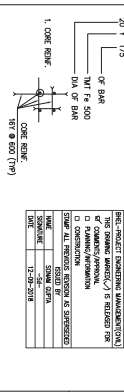
SECTION 1-1

SECTION 1-1

NOTES:-

1. FOR OTHER NOTES REFER DRAWING No. FC-00-434-000-0001
2. NTPC NO. 0048-001-015-PMC-C-0401B
3. 14.50/14.5000 COMPARED TO 14.17/14.1700
4. ALL DIMENSIONS SHALL BE SHOWN TO THE CENTER OF THE BAR
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LEGEND:-



THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE
MILL FOUNDATION OF RE DETAILS 0000-001-301-PMC-C-0402

PROJECT NUMBER: 0000-001-301-PMC-C-0402

OWNER: PATRANU VIDYUT UTPADAN NIGAM LIMITED
(A SUBSIDIARY OF NTPC LTD)

3X800MW PATRANU SUPER THERMAL POWER PROJECT

RELAY HEAVY ELECTRICALS LTD

PROJECT ENGINEER: NTPC LTD

PROJECT ENGINEER: NTPC LTD

PROJECT ENGINEER: NTPC LTD

PROJECT ENGINEER: NTPC LTD

PROJECT ENGINEER: NTPC LTD

PROJECT ENGINEER: NTPC LTD

PRE-BID CLARIFICATION SCHEDULE

S. No.	VOLUME/SECTION	PAGE NO.	CLAUSE NO.	STATEMENT OF THE REFERRED CLAUSE	CLARIFICATION REQUIRED	BHEL REPLY
1	SECTION - I/Sub Section -IA	23 (5 of 14)	3.1	Minor civil works as required	All civil works including Chipping are excluded.	Specification requirement is clear. Civil work is already excluded in at cl. no. 4 of sub section IA Exclusion (page. no.27) . However, Minor civil work like chipping of foundation, grouting etc. are in bidder scope as per cl. no. 3.2 (2) of sub section IA page. no.26)
2	SECTION - I/Sub Section -IA	23 (5 of 14)	3.1.1	SCOPE OF SUPPLY: Necessary insulation & cladding , if required,to maintain surface temperature of pyrite hopper within 60 ⁰ C shall be provided .	Temperature switch & Water quenching arrangement is considered to maintain in the Pyrite hopper temperature by interlocking with PLC/ DCS programming. Hence insulation & cladding is not considered.	Specification requirement is clear. Bidder to follow specification.
3	SECTION - I/Sub Section -IA	24 (6 of 14)	3.1.9	SCOPE OF SUPPLY: All necessary supporting structural,supporting frame, short support, stringers,conveyor gallery with walkway, platforms,anchor fasteners as required for mechanical conveyor system shall be provided. 800 mm walkways on both sides of the conveyor shall be provided for maintenance.	The chain conveyor is mounted above the ground (Floor), conveyor gallery with walkways are not applicable and same not considered.	Bidder to refer technical amendment no.-2.
4	SECTION - I/Sub Section -IA	26 (7 of 14)	3.2.9	SCOPE OF SERVICES: Review of civil drawings prepared by customer/ customer nominated agency based on civil input drawing furnished by the successful bidder.	Review will be limited to interface dimensions only.	Specification requirement is clear & Bidder understanding is correct.
5	SECTION - I/Sub Section -IA	26 (7 of 14)	3.2.10	SCOPE OF SERVICES: Preparation of all necessary drawings/ data/ documents for obtaining necessary approval of statutory authorities on behalf of the customer. Necessary fee for obtaining such approval shall also be borne by the bidder.	No statutory approvals & fees are envisaged in this package.	Specification requirement is clear.
6	SECTION - I/Sub Section -IA	27 (9 of 14)	8.1	EQUIPMENT DESIGN CRITERIA: Note: All equipment sizing, capacity of pyrite hopper shall be subject to customer's approval during detail engineering without any cost implication to the customer.	Equipment sizing and capacities are as per the technical specifications. Customer's approvals are also binded to these specifications . Any requirements beyond the specifications may have cost implications.	Major information related to design, quantity, MOC of major components are already indicated in technical specification and these shall not change. Bidder to follow specification
7	SECTION - I/Sub Section -IA	31 (13 of 14)	4	Bunker & its Accessories	Silo Bunker & its support structure will be uncladded.	Specification requirement is clear.There is no requirement of cladding.

8	SECTION - I/Sub Section -IA	31 (13 of 14)	4.b	Effective Storage Capacity - 125 T	A bunker of effective storage capacity 16 hours (16 hrs x 9 ton= 144 Tons) of rejects generation rate for each unit is mentioned else where in the specifications. We kindly request BHEL to confirm the effective storage capacity of the Silo.	As per actual calculation in line with customer requirement it is 0.86X9X16=123.8T.Hence 125T capacity is correct in specification
9	SECTION - I/Sub Section -IA	55 (3 of 4)	3.03.00	8) Metallic belt conveyor will be required to handle highly abrasive rejects continuously.	Chain flight conveyor is considered.	As per Cl.No. 3.1 (8)/Section-1/Sub section-1A of technical specification,chain flight conveyor is acceptable.
10	SECTION - I/Sub Section -IA	55 (3 of 4)	3.03.00	14) 800 mm walkway along both sides of conveyor for Maintenance shall be provided in the tunnel.	The chain conveyor is mounted above the ground (Floor), conveyor gallery with walkways are not applicable and same not considered.	Bidder to refer technical amendment no.-2.
11	SECTION - I/Sub Section -IA	56 (4 of 4)	3.05.03	Belting :Suitable heat resistant and fire resistant belting shall be provided	Chain Bucket Elevator is considered, hence belt is not applicable.	Bidder to refer technical amendment no.-2.
12	NTPC Document No CS-9858-001-02 Section VI, Part D	117 of 464	36.05.00	Site Management during construction Phase till handing over of project	Not Applicable in Schenck Scope	Refer Annexure-1 of Corrigendum-6 ,It is written "AS Applicable". Hence,clauses which shall be applied during Erection of Mill reject system shall be applicable for the bidder.
13	NTPC Document No CS-9858-001-02 Section VI, Part D	120 of 464	38 .02.00	Contractors Materials Brought on to site	Not Acceptable, if any dues are pending needs to be discussed mutually and sorted amicably	
14	Corrigendum-06	1 to 53		Annexure-1 (Erection condition of contract) Cross way bridge for the conveyors	Not Applicable in Schenck Scope.As the conveyors are mounted on ground, cross ways (cross over way bridges) are not required & not considered also.	
15	Corrigendum-06			Revised MRHS system layout	The silo locations/ distance & cross conveyor lengths are not mentioned . Kindly provide us a clear layout details (like silo location, mill foundastion, structure column foundation details)to consider accordingly.	Bidder to refer technical amendment no.-2. Column foundation details shall be furnished during detail engineering.
16	Corrigendum-06		Sl. No.1	Vibrating feeders, if required, can be electromagnetic or electromechanic or any other type, suitable for the said purpose.	If required and space/ design permits, small inclined chain conveyors will be considered in place of vibrating feeders . Kindly confirm.	Same shall be decided during detailed engineering
17		283 (2 of 2)	SL no 15	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).	Our scope is limited to field equipment to nearest JB. Control of the equipment shall be done from customer MCCI PLC. Refer attached P&ID.	Specification requirement is clear.The scope is limited to mill reject system as defined in the specification.

18		283 (2 of 2)	SL no 17	Electrical Equipment & cable tray layout drawings: 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 PEM 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.	Cable tray, cable schedule etc drawing shall be provided within the battery limit only. Others will be in customer's scope.	Refer Technical Amendment-2
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