



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-19-Aug-23

CORRIGENDUM- 06

PROJECTs	:	4X210MW NTPC KAHALGAON - R&M (ESP)
PACKAGE	:	MILL REJECT SYSTEM (CONVEYOR TYPE)
ENQUIRY NO	:	PE/PG/NTK/E-7287/2023 Date- 28-Jun-23
SUBJECT	:	DUE DATE EXTENSION

Type of Corrigendum			
Technical Corrigendum -	<input type="checkbox"/>	Commercial Corrigendum -	<input checked="" type="checkbox"/>

Bidders are requested to note:

Due date & time of bid submission has been extended up to 29.08.2023 @ 11.00AM. Bid opening shall be done at 05.00 PM on the due date.

Also find attached replies to technical queries raised till date.

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

Yours faithfully,

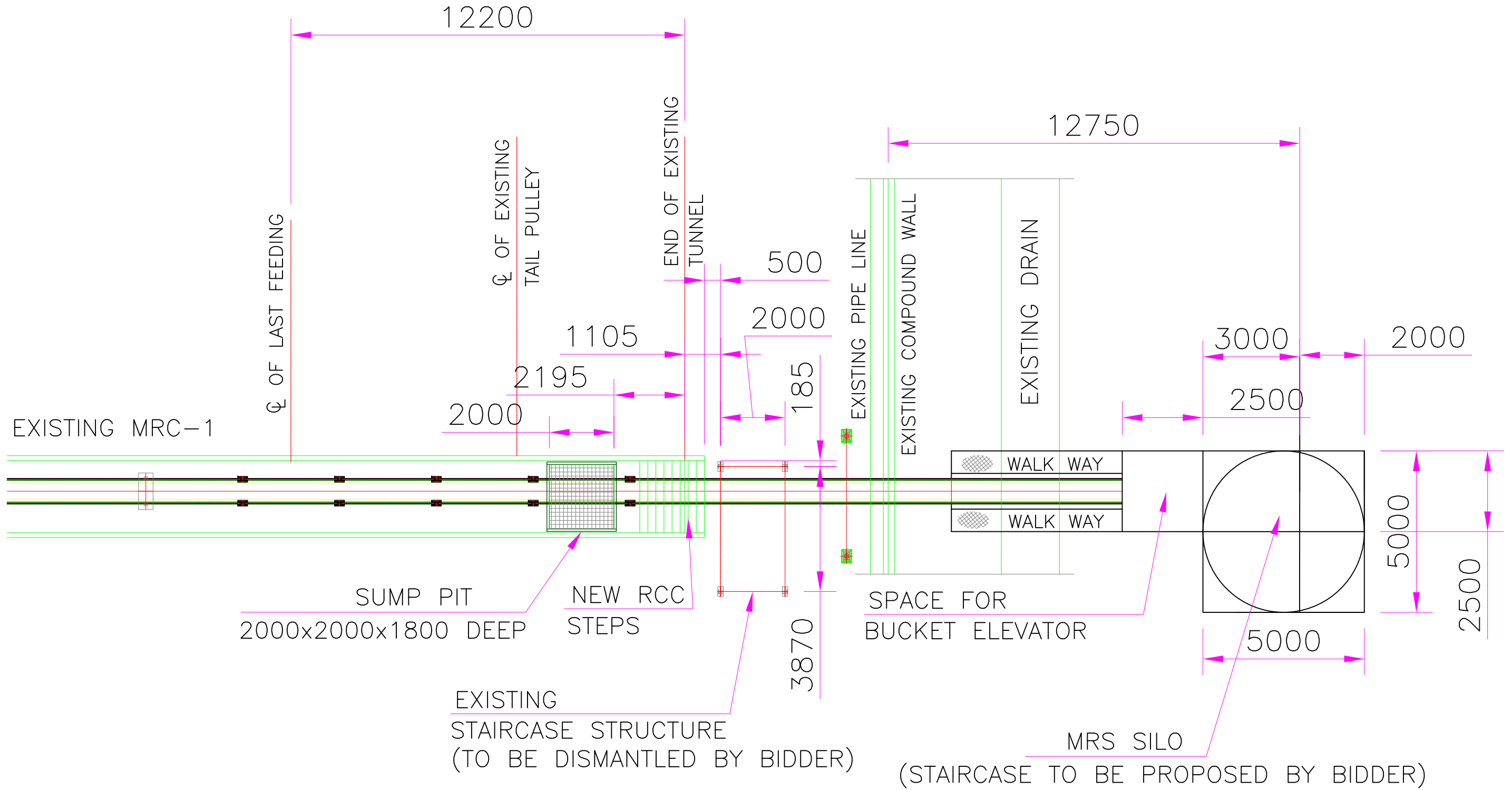
For and on behalf of BHEL

Sumeet Sahay
Manager/BOP

PROJECT		NTPC KAHALGAON SUPER THERMAL POWER STATION STAGE-I (4 x 210 MW)			
PACKAGE		MILL REJECT SYSTEM (CONVEYOR TYPE)			
TECHNICAL SPECIFICATION		PE-TS-455-160-11000-A-A001			
PRE-BID CLARIFICATIONS					
S. No.	Spec. Clause No.	Page No.	Specified in the Tender Specification	Clarification Sought by Bidder	BHEL's clarification
1	Technical Specification for Mill Reject System Modification	Pg 4 of 375	Detail structural and fabrication drawing shall be submitted by bidder for approval.	Please note structural drawings shall be submitted by bidder as applicable. However, any kind of fabrication drawings cannot be submitted due to proprietary in nature. Kindly confirm.	Bidder's understanding is correct. Only structural drawings shall be submitted by bidder for approval as per Drawing List in Technical Specification.
2	Technical Specification for Mill Reject System Modification, 3.02.00	Pg 5 of 375	Scope of Head pulley and discharge chute for extended portion of MRC-1	Bidder presumes that for the extended portion of MRC-1 located near Unit-4, head pulley and discharge chute should be newly supplied by the bidder. Kindly confirm.	Bidder's understanding is correct. All items in extended MRC-1 shall be newly supplied.
3	Technical Specification for Mill Reject System Modification, 3.03.00	Pg 5 of 375	Belt conveyor for the complete MRC-1	Bidder observes that the term "belt conveyor" should be changed to "belt". Kindly confirm.	Bidder's understanding is correct.
4	Technical Specification for Mill Reject System Modification, 3.07.00	Pg 5,14 of 375	Mill reject storage silo	Please clarify about the cladding/sheeting scope related to MRS Silo i.e. for both roof top and side cladding. If applicable, please provide the specifications like MoC, Type, Thickness, etc. for cladding/sheeting works.	Cladding/sheeting is applicable for MRS Silo and Transfer Tower i.e. for both roof top and side cladding. For cladding/sheeting/decking works specification, please refer Page 43 of 375, clause 4.07.00. for details.
5	Technical Specification for Mill Reject System Modification, 3.08.00	Pg 5,24 of 375	Lifting devices, Monorails and Hoists	Bidder requests BHEL to provide the location for consideration of lifting devices like Chain pulley block, Manual hoist and Electric hoist for Mill Reject System.	Location for consideration of lifting devices shall be Silo Top, Gravity Take-up and Transfer Tower.
6	Technical Specification for Mill Reject System Modification, 3.11.00	Pg 7 of 375	Stoppage of existing for a very short duration	Bidder request BHEL to define the term "short duration" in terms of days/weeks/months for planning our installation activities accordingly. Kindly confirm.	Please note that reasonable time required by the bidder shall be provided in co-ordination with end customer. Bidder should be sensitive to end customer's generation loss during outage and so should plan the sequence of activities in such a way that there is minimum outage time required. Erection activities which do not require shutdown of units such as installation of Bucket Elevator, Silo, part activities at extended portion of MRC-1 etc. shall be required to be planned suitably. This will result in minimum interconnection and changeover time to new mill reject system.
7	Technical Specification for Mill Reject System Modification, 3.19.00	Pg 7 of 375	Carrying idlers in the impact zone of MRC-1	Bidder observes that six (6) nos. carrying idlers at the impact zone of each pyrite hopper are nothing but impact idlers i.e. carrying idlers with rubber rings. Kindly confirm.	Bidder's understanding is correct.
8	Technical Specification for Mill Reject System Modification, 3.20.00	Pg 8 of 375	Location of nearest plant drain	Bidder request BHEL to kindly mark the location in the layout (or) provide the distance of nearest plant drain for our due consideration.	Please refer Page 22 of 375 and consider 50m.

9	Specific technical requirements, detailed specification of Mechanical	Pg 9 of 375	Exclusions, civil works	Bidder presumes that any kind of work like extension, modification of existing underground tunnel for MRC-1 which falls under civil works shall be duly carried out by BHEL. Kindly confirm.	Confirmed. Please refer Page 9 of 375 - "Exclusions: Complete civil work pertaining to RCC work and equipment foundation. BHEL shall prepare the foundation drawings based on load data and layout input provided by bidder."
10	Specific technical requirements, detailed specification of Mechanical	Pg 12 of 375	Dismantling of existing staircase and lift (42 M-Rack & Pinion Type)	Bidder expresses that while dismantling staircase and lift, few weld cuts may have to be carried out on the existing structural members at different locations owing to large heights of the structure. Kindly confirm.	Please note that the same shall be reviewed during detailed engineering and any technical constraint shall be suitably considered with end customer's approval.
11	Specific technical requirements, detailed specification of Mechanical	Pg 13 of 375, pt. g in table	Temperature of mill reject and belt grade	Bidder requests BHEL to provide temperature of mill reject at the outlet of discharge chute of each pyrite hopper while falling on the belt of existing MRC-1. Also please provide the HR grade of existing belt i.e. HR T1, HR T2, SHR, UHR for ensuring proper selection of new belt for MRC-1.	Reject Temperature (normal) Deg. C : ~180 Reject Temperature (design) Deg. C : ~200 Please refer Page 13 of 375 for Specification of Belt to be supplied: "HR grade, Nylon-Nylon, 5/2 rubber cover without negative tolerances, minimum number of piles for belting shall be three (3)." Reject temperature details are as above for selection of belt.
12	Specific technical requirements, detailed specification of Mechanical	Pg 13 of 375, pt. m in table	Takeup travel, Two (2) nos. Vulcanizing joints	Bidder requests BHEL to kindly elaborate on the point mentioned regarding min. Two (2) nos. Vulcanizing joints as the same is not clear in the para.	In case of any snap in rubber belt during course of operation, provision should be kept for repairing the belt at two occasions through vulcanising joints without adding any external belt. Accordingly, take up travel should be required to meet the requirement of referred clause.
13	Specific technical requirements, detailed specification of Mechanical and SKETCH OF MRC NEW/OLD – LAYOUT OF NEW FLY ASH CONVEYING & TRANSPORTATION SYSTEM	Pg 15 of 375	Location of New Bucket Elevator and New MRS Silo	Bidder has studied the location of New Bucket Elevator and New MRS Silo as shown in the tender drawing and expresses that considering the given location of New Bucket Elevator and New MRS Silo, the concave radius of MRC-1 is not conducive and also, the bucket elevator and footing of MRS silo are coming on the drain. Therefore, bidder recommends to shift the location of both New Bucket Elevator and New MRS Silo on the road (7000 mm wide) as shown in the tender sketch. Please check and confirm.	Bidder's understanding is correct. We are attaching a proposed sketch for better clarity.
14	Specific technical requirements, detailed specification of Mechanical	Pg 19 of 375	Roof of conveyor gallery shall be of single skin troughed profile colour coated sheet	Please clarify about the scope of side cladding/sheeting for closed gantry portion of extended MRC-1 as the same is not mentioned in the specification. Further, please provide the Thickness of colour coated sheet for our due consideration.	Cladding/sheeting is applicable for extended MRC-1 i.e. for both roof top and side cladding. For cladding/sheeting/decking works specification, please refer Page 43 of 375, clause 4.07.00. for details.
15	Specific technical requirements, detailed specification of Mechanical and SKETCH OF MRC NEW/OLD – LAYOUT OF NEW FLY ASH CONVEYING & TRANSPORTATION SYSTEM	Pg 22 of 375	Sump Pumps	Considering the given specifications for Sump Pump and as per the discussions had with Pump manufacturers, the maximum solid particle size handled by pump for the given flow rate and head is 6 mm. therefore, our design of sump pump shall be based on this fact. Kindly confirm.	Please note that the same shall be reviewed & finalised during detailed engineering.

16	SKETCH OF MRC NEW/OLD – LAYOUT OF NEW FLY ASH CONVEYING & TRANSPORTATION SYSTEM	TENDER DRAWING NO. 4210-104A(R&M)-2-POM-A-006	Location of Staircase & Lift	Please provide the detailed drawings, weights of lift & staircase (42 Mtr.) as shown in “SKETCH OF MRC NEW/OLD – LAYOUT OF NEW FLY ASH CONVEYING & TRANSPORTATION SYSTEM” which in coming in the way of our proposed extended portion of existing Belt conveyer, MRC-1.	As mentioned on Page 7 of 375, additional details may be collected from visit to site. We are attaching a site photograph and sketch for bidder's reference.
17	PROPOSED LAYOUT FOR MODIFIED MILL REJECT SYSTEM (ABOVE GROUND FACILITIES)	Dwg. No. – RMSG-LAYOUT-TENDER-MRS-001	Length of proposed MRC-1 given as 265.30 Mtrs. C/C Pulley	Bidder informs that the exact overall length of existing MRC-1 after proposed extension near Unit-4 will be based on the location of New Bucket Elevator and New MRS Silo as mentioned in point no.-13 above and extension of conveyer MRC-1 near Unit-1 as applicable.	Please refer reply to S.No. 13.
18	PROPOSED LAYOUT FOR MODIFIED MILL REJECT SYSTEM (ABOVE GROUND FACILITIES)	Dwg. No. – RMSG-LAYOUT-TENDER-MRS-001	Tunnel Ventilation System for extended/modified portion of existing underground tunnel for MRC-1	Bidder requests BHEL to clarify the requirement of Tunnel Ventilation System for both existing underground tunnel and newly extended/modified portion of underground tunnel.	Tunnel Ventilation System is not applicable.



PROPOSED PLAN VIEW OF MODIFIED MRC-1 AND NEW BUCKET ELEVATOR & MRS SILO



STAIRCASE

RACK AND
PINION
ELEVATOR