



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-3-Sep-20

CORRIGENDUM- 01

PROJECTs	:	2 X 660 MW THDC KHURJA-TG
PACKAGE	:	AIRCONDITIONING SYSTEM
ENQUIRY NO	:	PE/PG/THD/E-6493/2020 Dated 14.08.2020
SUBJECT	:	Reply of pre-bid queries and technical amendment

Type of Corrigendum			
Technical Corrigendum -	☒	Commercial Corrigendum -	☐

Bidders are requested to go through the following changes:

1. Reply of pre-bid queries is enclosed.
2. Amendment to technical specifications is enclosed.

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

Upendra Chaudhary
Manager/BOP

	2 X 6600 MW THDC-KHURJA-TG -AIRCONDITIONING SYSTEM -PRE BID CLARIFICATION SCHEDULE	Specification No : PE-TS-475-553-A001(Rev 00)		
		Section I		
		Rev No 00	Date : 24.08.20	

PRE BID CLARIFICATION SCHEDULE

SI No	Section/ Clause/ Page No	Statement of the referred Clause	Clarification Required	BHEL Reply dated 02.09.2020
1	Technical specification_Part 2 Page No 294 of 300 Drawing Ref :PE-DG-475-100-M004 Rev 01 dtd 04.03.20 : Title : TG Equipment Plan at Mezzanine Floor	AHUs for Air conditioning of UPS & Battery Charger Room at 8.5 ML and CEP VFD Room and SWAS Room at 0.0 ML	Please confirm if the space marked as AHU Room adjacent to the UPS Battery Charger rooms at 8.5 ML between Grids 15-16 and EFGH caters to the AHU catering to the UPS Battery Charger rooms (8.5 ML) and CEP VFD Room and SWAS room (0.0ML)	Refer Amendment No. 1 in this regard Further details mentioned in Technical specifications and BOQ may also be referred
2	Technical specification_Part 2 Page No 294 of 300 Drawing Ref :PE-DG-475-100-M004 Rev 01 dtd 04.03.20 : Title : TG Equipment Plan at Mezzanine Floor	Air conditioning of CEP- VFD Room, SWAS Room, UPS and Battery Charger Rooms	Please confirm the AHU capacity or Equipment heatload inside the SWAS room, CEP VFD Room and UPS/ Battery Charger Rooms for us to arrive at the capacity of AHU and the chilled water pipe sizing for the AHU	Bidder to follow technical specification and estimate the AHU capacity based on the details available in the tender.
3	Technical specification_Part 2 Page No 296 of 300 Drawing Ref :PE-DG-475-100-M006 Rev 01 dtd 07.03.20 : Title : TG Equipment Plan at Misc. Floors above operating floor in BC Bay	AHU for CCR,CER, PADO Room, Conference Room etc at 17 ML	Please confirm if the space marked as AHU Room at 25.5 ML between Grids 15-18 in BC Bay caters to the AHU catering to the CCR,CER, PADO Room, Conference Room etc at 17 ML	Refer Amendment No. 1 in this regard Further details mentioned in Technical specifications and BOQ may also be referred

4		Service Building Layouts	Please provide Service Building Layouts with the location of AC Plant room and AHUs at various floors for us to estimate the Piping quantities.	Bidder to estimate piping quantities with available information in BOQ & technical specifications viz. Chiller capacity, AHU quantity etc. Layout for service building shall be provided during detailed engineering.
5	Technical specification_Part 1 Page No 74 of 300 Clause 1.05	Air conditioning System- Areas to be airconditioned	Please confirm if water analysis lab and Static Excitation room in TG Building are to be included as indicated in the referred clause. If so please provide details .	1. Water analysis room is applicable as mentioned in Section I Sub-Section C2A Clause 1.05.00 Pg. no. 71 of the technical specification. 2. Static Excitation Room is not applicable. Please refer Amendment no. 1 in this regard.
6	Technical specification_Part 1 Page No 75 of 300 Clause 14	Underdeck Insulation	Please confirm if Underdeck insulation is included in Air conditioning system vendors scope as the same is not figuring in BOQ	Refer Amendment No. 1 in this regard
7	Technical specification_Part 2 Page No 117 of 300(475 of 600)	Amendment to Bidding Documents :For Service Building..... For Sequential Operation/duty cycling/ programmed start up/stop of individual AHUs, pumps and cooling Towers.....	Following is our understanding. which may kindly be confirmed. Field instruments (in HVAC Vendor scope) and the required control/ instrumentation cabling will be terminated at the nearest junction box or as the case may be in line with the specification and in line with the type of transmitter (Profibus/ Hart type). From this termination point further cabling to be carried out by BHEL upto the DDCMIS in BHEL Scope. Required Hard wired contact for the operation and monitoring / status indication of HVAC equipment through DDCMIS (BHEL SCoPe) will be from the Electrical MCC/ Switch gears provided by BHEL for the respective HVAC Equipment. Microprocessor based control for Chiller units with provision for softlink and hard wired interface with BHEL's DDCMIS will be provided as part of The Chiller machine. No other Panel is provided other than the above. This is applicable for the Main Plant and Service Building air conditioning systems.	Bidder to refer electrical scope matrix as mentioned in Section I Sub-Section C3 and other relevant portions of Technical specifications.



**AIR CONDITIONING SYSTEM
KHURJA TG 2X660 MW
TURBINE GENERATOR AND ASSOCIATED
PACKAGES**

SPECIFICATION NO. PE-TS-475- 553-A001

AMENDMENT-1

DATE: 02-09-2020

SHEET 1 OF 1

AMENDMENT TO TECHNICAL SPECIFICATION

Sl. No.	Clause	Existing description	To be read as (Amendment/ clarification)
1	Section I Sub- Section C1 Clause 5.1	Additional point added	5.1 d) AHUs located at 8.5 ML shall cater to the following areas: 1. UPS & Battery charger Room at 8.5 ML. 2. CEP VFD room at 0.0 ML. 3. AC area of SWAS room at 0.0 ML. 4. Water Analysis Room at 0.0 ML.
2	Section I Sub- Section C1 Clause 5.1	Additional point added	5.1 e) AHUs located at 25.5 m shall cater to the following areas: 1. Control equipment room at 17.0 ML 2. Control room Unit 1 & 2 at 17.0 ML 3. Computer room Unit 1 & 2 at 17.0 ML 4. PADO room at 17.0 ML 5. C&I Engineer room at 17.0 ML 6. Shift in-charge room at 17.0 ML 7. Auxiliary control room at 17.0 ML 8. Conference room at 17.0 ML
3	Section I Sub- Section C2A Clause 2.00.00 Point 14.	Clarification	Under-deck insulation is under BHEL scope.
4	Section I Sub- Section C2A Clause 1.05.00	Centralized air conditioning system Control Rooms, Control Equipment Rooms, UPS & battery charger room, SWAS room, Water Analysis Lab, static excitation control room (if applicable) etc. in TG building.	Centralized air conditioning system Control Rooms, Control Equipment Rooms, UPS & battery charger room, SWAS room, Water Analysis Lab, static excitation control room (if applicable) etc. in TG building.