



BHARAT HEAVY ELECTRICALS LIMITED  
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-19-Dec-22

CORRIGENDUM- 03

PROJECT	:	2 x 660 MW NTPC TALCHER TPP, STAGE - III
PACKAGE	:	COOLING TOWERS (CT) (NATURAL DRAFT COOLING TOWER)
ENQUIRY NO	:	PE/PG/HER/E-7118/2022 Dated. 26.11.2022
SUBJECT	:	PRE- BID CLARIFICATION

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

Please note the following:

**Reply to Pre Bid Query attached with this corrigendum shall be treated as part of NIT.**

Yours faithfully,

For and on behalf of BHEL

Sharad Chandra  
Manager/BOP

Project : TALCHER TPP STAGE-III (2X660 MW) COOLING TOWERS PACKAGE							
Sl. No.	Specification Reference					Query	BHEL clarifications
	Section-Part	Sub Section	Clause no.	Page	Description		
1	VI_B	B-14	3.10.00		The distance between lighting elevations shall not be more than 105 Metre and lowest lighting elevation shall not be less than 70 metre.	For Hyperbolic cooling towers, upto 600ft height, one level of lights are sufficient. Refer clause no. 7.9 of US-FAA circular no: AC70/7460-1L (2015), Pl. review and confirm.	Please follow specification.
2		IC	1.1		Bidder to supply the following items as a minimum for each cooling tower: ii) Anemometer (01 no.) for measurement of wind velocity. iii) Psychrometer (01 no.) v) Removable type Pitot Tube at each hot water inlet- piping header to measure the flow.	Check wether 1no of Anemometer, 1 no. of Psychrometer and 1 1no of pitot tube is sufficient for 2 NDCTs	Please follow specification.
3		IC			RTD, Flow Element, Wind speed sensor, Wind direction sensor, Wind temperature sensor, RH sensor, Level gauge, DP switch, Temperature switch, transmitting elements (temp / pressure) etc.,	As per clause no 1.1 of Section IC, these are not in scope. Please clarify.	These instruments are in scope of bidder and Bidder to comply specification requirements.
4	Data Sheet A	ID	7.6	3 of 6	Stop Log gate...: Yes – Sluice gate / butterfly valve with complete head stock arrangement is required	Sluice gate is different from stoplog. For stoplog, chain pulley arrangement is required as mentioned vide clause no.7.9 of same page. Sluice gate does not need chainpulley as haed stock is available. We presume it is not sluice gate. Please confirm.	Stop Log gate with guides and sealing device for each cold water outlet sump/channel to be provided.
5	Book 2 of 2		5.17.01.01	page 34 of 206	The wind load as specified in clause 5.17.01.01 above shall be the minimum loading to be considered for analysis and design. The bidder shall also carry out the entire analysis & design on the basis of BS 4485 (latest) for smooth shell surface or BTR (latest) in case of ribbed shell surface. The design of entire tower including foundation shall be checked as per BS 4485/BTR as the case may be.	Only snap through buckling to be performed by BS code or wind load to be also apply by BS code.	Specs are clear. Bidder need to check with respective relevant codes.
6	Book 2 of 2		5.17.01.02.06 (I) b	Page 55 of 120	Raker Column: for limiting the crack width, the stress for the reinforcement steel shall be limited to 130 MPa (on all faces) as per clause 4.4.3.1 of IS:3370 (Part 2): 2009 using the partial safety factor for serviceability condition as per clause 4.4.1.3.	To limit stresses in raker column reinforcement upto 130 Mpa, it will require huge size of raker column which will be impractical. So please re-look into this condition for raker column design. Also for serviceability condition the crack width will be limited to 0.2mm in line with clause 4.4.1.2b of IS:3370 - 2009(part-2).	Bidder to follow Specification.
7						Is prestressing of Raker column permitted ?	Specs are clear. Pl. follow specification.
8	VI-B	D-1-5	5.17.01.02.06 (II) c	Page 57 of 120	Design Criteria for Tower Shell foundation (b): Generally net tension should be avoided in the foundations/piles for the shell support foundation unless specifically permitted by the Owner. ....	In case of open foundation for the physical condition it will be ensured no tension for Gross SBC however for piles tension capacity will be used. Please confirm.	Specs are clear. Pl. follow specification.
9						Plot Plan Indicating bore hole location shall be furnished with information for bore hole at NDCT location	Please refer Corrigendum-1 and NIT specification for the same.
10	Price Format		Notes		<b>Free issue materials</b> (Cement & Reinf steel) Bid loading for Additional quantities.	If quoted quantities are lesser than specified quantities, whether advantage will be given in bid evaluation at same unit rates?	Bidder to follow NIT requirements.