



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-3-Aug-20

CORRIGENDUM- 02

PROJECT	:	4X250 MW BRBCL NABINAGAR FGD
PACKAGE	:	MISC. TANKS(SITE FABRICATED)
ENQUIRY NO	:	PE/PG/BRB/E-6473/2020 Dated. 12.07.2020
SUBJECT	:	PRE- BID CLARIFICATION

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

In reference to the above mentioned tender enquiry for **MISC. TANKS(SITE FABRICATED)** package

Please note the following.

1. All bidders are requested to go through the attached pre-bid clarification.
2. Due date for offer submission has been extended from 03/08/2020 to 13/08/2020 (11:00 AM) and P1 shall be opened on same day at 13:30 PM.

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
Manager

PRE BID CLARIFICATION SCHEDULE

Sl.No.	Section / Part/Subsection	Page No.	Clause No.	Bid Specification	Bidder's Query	BHEL Reply
Tender reference: PE/PG/BRB/E-6473/2020						
Project: 4X250 MW BRBCL NABINAGAR FGD						
Package: MISC.TANKS (SITE FABRICATED)						
1	PE-TS-463-167-A101 / SECTION -I, SUB SECTION -CIA	41 of 335	3.3	a) Bottom plate shall be 8.0 mm thick (minimum). Minimum 6 mm (excluding tolerance on plate as per relevant IS) thick plates including corrosion allowance shall be provided for shell plates and minimum 8 mm for roof plates for all tanks. However, Auxiliary absorbent tank shall be provided with minimum 8 mm thickness for shell.	As course wise min. thickness to be considered are not given for shell plates of FGD tanks in the GADs or Tank schedules, we calculate the same as per IS 803. Also we shall consider any of 1500/2000/2500mm (subject to availability) width plates for shell plates, accordingly thickness of shell courses will be calculated/selected. Please confirm.	Follow the specification. The thicknesses which are not given in specification shall be calculated as per latest design code of tanks.
2	PE-TS-463-167-A101 / SECTION -I, SUB SECTION -CIA	42 of 335	3.5	In calculating the minimum plate thickness, the specific gravity of the liquid shall be taken as per tank schedule (Section-III, Annexure-8).	We understood that specific gravities shall be considered as per sl.no.11.h of tank schedule (Section-III, Annexure-8) for calculating shell plate thickness. Please confirm.	Confirmed.
3	PE-TS-463-167-A101 / SECTION-I / Sub Section- C1-A / SPECIFIC TECHNICAL REQUIREMENT- TANKS / 2.0 SCOPE OF SERVICES	40 of 335	2.3	Erection & Commissioning of rubber lining / VE Fl ake glass lining.	We understood that all inside surfaces of FGD tanks (for which is lining is applicable) including inside surfaces of roof, shell & bottom shall be considered for lining. Please confirm.	Refer clause 4.1 at page 47 of 335.
4	PE-TS-463-167-A101 / SECTION-I, SUB-SECTION- D / ANNEXURE-V, SEA-WORTHY PACKING PROCEDURE	221 of 335	---	Rearding seaworthy packing.	We understood that seaworthy packing is not required for the items procured from the local manufacturers. Please confirm.	Confirmed.
5	PE-TS-463-167-A101 / SECTION-III / Annexure-8, TANK SCHEDULE & GA DRAWING (TYPICAL) WITH AGITATOR PLATFORM	328 of 335	---	13) Inside lining of tank for process water tank, Belt filter wash tank & cake wash tank : a) Lining specification - Epoxy lining of minimum 150 micron thickness (3 coats of 50 micron each)	Generally recommended DFT/coat for epoxy tank liners will be 100 - 150 micron. Hence we consider 1 coat with 150 micron DFT instead of 3 coats. Please confirm.	Total DFT required is 150 microns. Number of coats shall be decided during detailed engineering as per paint manufacturer recommendation.
6	PE-TS-463-167-A101 / SECTION-III / Annexure-8, TANK SCHEDULE & GA DRAWING (TYPICAL) WITH AGITATOR PLATFORM	327 of 335	---	9) Agitator loads: a) Static Load (per agitator assembly) (in Tonnes) Aux. absorbent tank - 1.35	Please clarify whether the given static load is for each agitator or total (three) agitators of auxiliary absorbent tank.	Each Agitator of Aux absorbent tank.
7	PE-TS-463-167-A101 / SECTION-III / Annexure-9 (Nozzle schedule)	332 of 335	---	Regarding overflow line	We understood that Nozzle (on the tank shell) for overflow line only be in the bidder scope. Further piping from overflow nozzle to bottom of tank/terminal point shall be in client scope. Please confirm.	As per specification, only drop down pipe within the tanks, for each tank shall be provided by bidder. Piping outside tank nozzle is excluded from bidder's scope. However, any supporting arrangement required for these pipes shall be provided by bidder.
8	PE-TS-463-167-A101 / SECTION-II / Sub Section-A / STANDARD TECHNICAL SPECIFICATIONSMECHANICAL / GUIDANCE FOR DESIGNING AND FABRICATION OF STEEL CONSTRUCTIONS FOR RUBBER LINING	294 of 335	6-1	Any surface of the base metal to be lined should not be coated with paint or oil.	Referred clause calls for Any surface of the base metal to be lined should not be coated with paint or oil, where as in painting specification of FGD tanks it is specified that inside surfaces of tanks shall be painted with ROZP primer. Please clarify.	Bidde to consider primer as specified in the specification. However, final requirement of type of primer shall be subjected to lining manufacturer's recommendation and to be provided. Same shall be discussed & finalised during detail engineering.
	PE-TS-463-167-A101 / SECTION-I / Sub Section-C2-C PAINTING SPECIFICATION	170 of 335	Sl.no. 43	Tank internal structure Inside surfaces - Red Oxide Zinc Phosphate Primer to IS: 12744 (Two coats) (Liner is inside the tank, hence primer is only envisaged; Protection till erection only).		