



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-7-Oct-19

CORRIGENDUM- 07

PROJECT	:	1X660 MW BHUSAWAL TPS UNIT-6
PACKAGE	:	D.M. PLANT
ENQUIRY NO	:	E-6298/2019 Dated. 02.09.2019
SUBJECT	:	PRE- BID CLARIFICATION

Type of Corrigendum			
Technical Corrigendum -	☒	Commercial Corrigendum -	☐

Please note the following:

- 1. Pre-Bid Clarification (of 2 Pages) attached with this corrigendum shall be treated as part of NIT.**

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

Yours faithfully,

For and on behalf of BHEL

Sharad Chandra
Dy. Manager

Sr. No.	Volume	PDF Page No.	Tender Page No.	Section	Existing Clause	Deviation / Comments / Remarks / Amended Clause	BHEL REPLY.
	Mechanical						
1	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-1 OF 5)	31 Of 100	29 of 485	C	Make Of Resin Mention DOW / Lanxess	As Tender specifies the Uniform Co-efficient of WAC & WBA Resin 1.2, Hence Bidder requested to provide the additional Vendor Purolite for the Resin.	Bidder to follow tender specification. Refer 'Notes' in page number 110 of 485.
2	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-2 OF 5)	37 Of 100 & 38 Of 100	135 of 485 & 136 Of 485	C	CLARIFIED WATER ANALYSIS (DM PLANT FEED WATER) (TABLE-4) & The clarified water analysis shall be derived considering following dosing at PT plant: a) Alum Dosing @ 60 ppm. b) Lime Dosing @ 25 ppm. c) Poly Electrolyte Dosing @ 5 ppm. d) Ozone Dosing @ 2 ppm.	CORRIGENDUM- 04 Dated on 27-09-2019, Sr. No. 1, Clarified Water Analysis (134, 135, 136 of 485.) Existing clause/details Clarified water analysis is Modified to or Read as Filtered water analysis. From Above Bidder understand that Filtered water analysis is derived considering following dosing at PT plant: a) Alum Dosing @ 60 ppm. b) Lime Dosing @ 25 ppm. c) Poly Electrolyte Dosing @ 5 ppm. d) Ozone Dosing @ 2 ppm. Where as as per CORRIGENDUM- 06 Dated On October 5, 2019 Sr. No. 2 "Please note that it very clearly spelt out in tender specification page number 136 of 485 that bidder to derive the water analysis based on the chemical dosage specified. Hence, bidder understanding is not in line with the tender specification. Please follow tender technical specification." Bidder requested to kindly confirm whether Dosage as per Page no. 136 of 485 to be considered or not.	Bidder to consider the dosing rate as indicated in page number 136 of 485 to derive the filtered water analysis.
3	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-2 OF 5)	61 of 100	159 of 485	C	DEGASSED WATER STORAGE TANK Horizontal Cylindrical with Dished ends DesignCode : IS 803	DEGASSED WATER STORAGE TANK Horizontal Cylindrical with Dished ends Design Standard : BS: 2594	The tank shall be Horizontal/Vertical cylindrical, however, Equivalent standard shall be decided during detailed engineering.
4	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-2 OF 5)	81 of 100	179 of 485	C	Acid Storage Tank Adequate to hold the quantity of regenerant required for regeneration of the plant at full load operation for 15 days + 20% margin	Bidder understands that Acid Storage Tank Adequate to hold the quantity of only working stream regenerant required for regeneration of the plant at full load operation for 15 days + 20% margin	Tender specification clearly indicates the DM Plant is 1W+1S, bidder to consider the chemical requirement accordingly for the working stream of DM Plant as per the tender specification requirement.
5	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-2 OF 5)	91 of 100	189 of 485	C	Caustic Storage Tank Adequate to hold the quantity of regenerant required for regeneration of the plant at full load operation for 15 days + 20% margin	Bidder understands that Caustic Storage Tank Adequate to hold the quantity of only working stream regenerant required for regeneration of the plant at full load operation for 15 days + 20% margin	Tender specification clearly indicates the DM Plant is 1W+1S, bidder to consider the chemical requirement accordingly for the working stream of DM Plant as per the tender specification requirement.
6	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-3 OF 5)	15 of 100	213 of 485	C	NEUTRALIZED EFFLUENT DISPOSAL PUMPS	Bidder requested to kindly confirm the capacity of NEUTRALIZED EFFLUENT DISPOSAL PUMPS Or No. Of hours to evacuate the each section N-Pit	Capacity is already indicated in in sl no 30.2.9 , page number 213 of 485 of tender specification.
7	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-3 OF 5)	16 of 100	214 of 485	C	UF FEED WATER STORAGE TANK	Type Of UF FEED WATER STORAGE TANK is mention as Vertical cylindrical atmospheric where as Design Standard (for diameter,length & thickness) mentions As per BS: 2594. However, dished ends shall be of Torispherical type Bidder understands that UF FEED WATER STORAGE TANK is Vertical cylindrical atmospheric & Design Standard (for diameter,length & thickness) mentions As per IS: 803.(Design Code for Vertical Tanks)	The tank shall be Horizontal/Vertical cylindrical, however, Equivalent standard shall be decided during detailed engineering.

	ELECTRICAL & INSTRUMENTATION						
1	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-3 OF 5)	32 of 100	230 of 485	C	Silica analyzer	As per tender Silica Analyzer at the outlet of MB & Silica Analyzer will only compute Reactive Silica & Post UF will remove Colloidal Silica, Hence We don't envisage any requirement of silica analyzer at UF permeate as per process.	Bidder to follow tender specification.
2	VOLUME: II-B PE-TS-415-163-A001 (TECH SPEC FOR DM PLANT)-REV-0 (PART-3 OF 5)	31 of 100 & P&ID	228 of 485	C	Triple redundancy in critical application	Bidder requested to kindly confirm the critical controls / Parameter to estimate the Triple redundancy of Instruments.	Please note that based on the vendor's detailed engineering document the requirement of triple redundancy for critical application shall be decided as per the specification requirement.