



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-30-Aug-19

CORRIGENDUM- 01

PROJECT	:	1X660 MW UPRVUNL PANKI EXTN
PACKAGE	:	Sewage Treatment Plant
ENQUIRY NO	:	PE/PG/PKI/E-6292/2019 Dated. 22.08.2019
SUBJECT	:	PRE- BID CLARIFICATION

Type of Corrigendum			
Technical Corrigendum -	☒	Commercial Corrigendum -	☒

In reference to the above mentioned tender enquiry for **Sewage Treatment Plant** package, please note the following:

1. Reply of pre-bid queries is enclosed herewith.

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

Upendra Chaudhary
Manager

Project : 1X660 MW UPRVUNL PANKI EXTN, Sewage Treatment Plant					
Sr. No	Spec. Ref. Volume & Section	Spec. Ref. Page No.	Technical Specification / Requirements	Bidder's Clarifications & Clause No.	M/s BHEL Reply
1.00	Volume-IIB	Page No. 5 of 12	GST Related Corrigendum to GCC rev06 (Clause No. 9.0 Terms of Payment Supply packages & Clause No. 9.5 PG Test, Installation Check, Supervision of Erection/Commissioning Charges)	We have gone thro' the payment terms as per the attached document & hereby understand that Serial No. 9.0 & 9.5 will be applicable participating bidders. We however deviate from the above. Please find our payment terms which will be 100% of basic price of materials supplied, as per PO along with 100% taxes & duties (as applicable) which shall be paid against receipt of material at site on pro-rata basis within 15 days from the date of receipt of material at site (or) Supply - 50% advance along with the order. 50% against proforma invoice prior to dispatch. Erection & Commissioning - 50% against succesful completion of erection & 50% against successful completion of commissioning . M/s BHEL to confirm.	Payment terms shall be as per corrigendum to GCC Rev06
2.00	Volume-IIB	Page No. 5 of 12	GST Related Corrigendum to GCC rev06 (Clause No. 8.0 Transportation & Freight Charges)	We understand the below clauses as highlighted here under: 1. All Dispatches shall be thro' road carriers approved by Purchaser/Bank, on freight pre-paid basis. - Will be under M/s BHEL Scope. 2. Road Permit/Entry Permit, if required as per law of the state, shall be arranged by purchaser. - Will be under M/s BHEL Scope 3. Freight charges (including service tax) shall be payable after delivery of goods at the project site, on receipt of MRC or receipted LR on prorata basis - Freight charges incl. Service taxes that will be applicable (GST) will fall under M/s BHEL Scope. M/s BHEL to confirm the above.	Vendor to supply equipment on FOR destination basis
3.00	Volume-IIB	Page No 1-250	Technical Specification - Part-I (Exclusions from our scope.)	We request M/s BHEL to exclude Monorail Hoist, Chain pulley block, Ladders, Handrails for ladders, walkways & plat-forms from vendor's	BIDDER TO FOLLOW/COMPLY TO SPECIFICATION REQUIREMENT
4.00	Volume-IIB	Page No 1-250	Technical Specification - Part-I	In case our request as per point no.3 cannot be considered, Kindly provide the Civil GA Drawings for the complete Plant including locations where the accessories need to be supplied & installed as per above description. M/s BHEL to Confirm.	BIDDER TO NOTE THAT CIVIL GA DRAWINGS SHALL BE PREPARED BY BHEL BASED ON MECHANICAL INPUTS/GA DRAWINGS PROVIDED BY BIDDER DURING DETAILED ENGINEERING. FURTHER BIDDER TO REFER CLAUSE 3.1.82 FOR LOCATION OF MATERIAL HANDLING/LIFTING EQUIPMENT. BIDDER SHALL QUOTE ACCORDINGLY IN LINE WITH TENDER SPECIFICATIONS.
5.00	Volume-IIB	Page No 1-250	Technical Specification - Part-I	The Technical Specification mentions that Filters (DMF & ACF) are to be provided with MSEP. But since this flow & velocity are on the lower end, we suggest that the filters will be compatible with FRP MOC. We	BIDDER TO KINDLY NOTE THAT DEVIATIONS ARE NOT ACCEPTABLE. TENDER SPECIFICATIONS ARE CLEAR AND BIDDER SHALL COMPLY TO SPECIFICATION REQUIREMENT.
6.00	Volume-IIB	Page No 1-250	Technical Specification - Part-I	Kindly Confirm whether Media Strainer will have to be provided by vendor along with Activated Carbon Filter. If required, please specify the MOC & Flow rate of each Strainer. Further to the above, we will consider our own make filter vessel & media. M/s BHEL to Confirm	SPECIFICATION REQUIREMENT IS CLEAR. BIDDER TO REFER CLAUSE 3.1.32, PG 17/500 OF TENDER SPECS. BIDDER IS REQUIRED TO SUPPLY ACTIVATED CARBON FILTER (MOC: EPOXY COATED CARBON STEEL) ALONG WITH MEDIA, CARBON TRAP, PIPING, VALVES, FITTINGS, INSTRUMENTATION AND ACCESSORIES ASSOCIATED WITH THE SAME. FLOW RATE OF CARBON TRAP(MEDIA STRAINER) SHALL BE DESIGNED/FINALISED(WITH SUITABLE REQUIRED MARGINS) BY BIDDER TO SUIT PROCESS REQUIREMENT. MOC OF CARBON TRAP(MEDIA STRAINER)/ FILTER VESSEL/ MEDIA SHALL BE REVIEWED DURING DETAILED ENGINEERING AND SHALL BE SUBJECT TO BHEL/UPRVUNL APPROVAL WITHOUT ANY ADDITIONAL COST IMPLICATION WHATSOEVER. ADDITIONALLY BIDDER MAY REFER ANNEXURE II : SUB VENDORS LIST PG
7.00	Volume-IIB	Page No 1-250	Technical Specification - Part-I	Kindly Confirm the Aeration Media Size (in m2/m3) and recommended supplier for media. M/s BHEL to Confirm.	BIDDER TO OFFER EQUIPMENT BASED ON THEIR DESIGN/SELECTION. TO SUIT PROCESS REQUIREMENT, SO AS TO MEET OUTLET QUALITY PARAMETERS SPECIFIED AT PAGE 29-30/500.
8.00	Volume-IIB	Page No 1-250	Technical Specification - Part-I	Please confirm whether the Settling Tank Bottom to be considered as Truncated Pyramid type Or Conical End Type. M/s BHEL to Confirm	BOTH TYPE OF MENTIONED GEOMETRY ARE ACCEPTABLE.

9.00	Volume-IIB	Page No 1-250	Technical Specification - Part-I	We understand that Electrical Scope including MCC Panel/LPBS/Power & Control Cables/Local Cabling from Main-Route Cable Trays & Accessories etc. as per page nos. 121 & 122 of 500 will fall under M/s BHEL Scope. We also understand that Junction Boxes/Cable Trays along with accessories upto equipment terminals/Local Control Panels as per page nos. 121 , 122 & 204 of 500 will fall under vendor scope. In-order to arrive at the Junction Boxes/Cable tray, Glands with other accessories /Local Control Panel quantity, we require M/s BHEL to furnish the tentative Electrical routing diagram duly mentioning Plant & Panel location.M/s BHEL to provide & Confirm as per our request. Since PLC is not in our scope of supply, Clause No. 5 of page no. 121 of 500 will be null & void. M/s BHEL to Confirm.	ELECTRICAL SCOPE BETWEEN BHEL & BIDDER SHALL BE GOVERNED BY SCOPE SPLIT PROVIDED IN SHEET NO 121 &122 OF THE SPECIFICATION. MCC SHALL BE PLACED IN STP AREA/BUILDING AND MAIN ROUTE SHALL BE FINALISED ONLY AFTER RECEIPT OF MECHANICAL DRAWING FROM VENDOR DURING DETAILED ENGINEERING. CLAUSE NO. 5 IS ALREADY CLEAR, SPECIAL TYPE OF CABLE IF APPLICABLE, SHALL BE IN BIDDER'S SCOPE.
10.00	Volume-IIB	Page No 1-250	Technical Specification	Kindly Confirm whether the two Nos. (1W+1S) air blowers will be capable only for handling Common Collection Sump, Sludge Sump & Equalization Tank. M/s BHEL to Confirm location of equalization tank in P&ID.	TENDER SPECIFICATIONS ARE CLEAR. BIDDER TO REFER P&ID (PG-105/500) AND PG-16/500, CLAUSE 3.1.17(TWO NOS (1W+IS) BLOWERS SHALL BE SUPPLIED FOR SLUDGE SUMP AND EQUALISATION TANK) & 3.1.24(TWO NOS (1W+IS) BLOWERS SHALL BE SUPPLIED FOR FAB/MBBR TANK). FURTHER IF BIDDER FEELS AS PER THEIR DESIGN AERATION OF COMMON COLELECTION SUMP IS REQUIRED, SAME MAY BE PROVIDED. NO EXTRA CREDIT/BENEFIT/COST SHALL BE ACCORDED ON THIS ACCOUNT.
11.00	Not applicable	Page No 2 & 3 of 43	Other Tender Documents	The tender documents mentions HSE Inspection/Inspection of PPE/Inspection of T&Ps/Inspection of Cranes & Winches/Inspection on Height Working/ Inspection on Welding & Gas Cutting Operation Inspection on Electrical Installation & Appliances/ Inspection on Elevators/ HSE Audit Inspection. M/s BHEL to Confirm which of the above mentioned inspection falls under vendor scope. If the above inspection categories include third party inspection also, the charges for the same has to be borne M/s BHEL	APPLICABLE STIPULATION AND RELEVANT ACTIVITIES/ SITE OPERATIONS BY BIDDER(SUB-CONTRACTOR), AS APPLICABLE FOR 40KLD SEWAGE TREATMENT PLANT (AND/OR RELATED ACTIVITIES, ARE TO BE COMPLIED BY BIDDER.
12.00	Volume-IIB	Page No 1-250	Technical Specification	We understand that the Sludge from Centrifuge will have to be dried & suitably disposed for further handling by purchaser. M/s BHEL to confirm.	TENDER SPECIFICATIONS ARE CLEAR. BIDDER TO REFER CLAUSE 3.1.40 PG-17/500 AND CLAUSE 5.0 (4), PG-32/500. ONE TROLLEY/HAND BARROW SHALL BE PROVIDED BY BIDDER FOR COLLECTING OF SLUDGE CAKE GENERATED FROM CENTRIFUGE FOR MANUAL DISPOSAL OF SLUDGE CAKE.