



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-29-Jun-23

CORRIGENDUM- 01

PROJECTs	:	2 x 660 MW NTPC TALCHER TPP, STAGE - III
PACKAGE	:	FUEL OIL UNLOADING AND STORAGE SYSTEM
ENQUIRY NO	:	GEM/2023/B/3586443 Dtd-19.06.2023
SUBJECT	:	DUE DATE EXTENSION

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

Bidders are requested to note:

Please note BHEL's reply to pre-bid queries raised till date in attached annexure.

Due date & time of bid submission has been extended up to 07.07.2023 @02.00PM. Bid opening shall be done at 03.00 PM on the due date.

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

Sumeet Sahay
Manager/BOP

ANNEXURE

PRE BID QUERIES

S.No	Page No	Clause	Customer Tender Specification	Clarification/ confirmation needed	BHEL Reply dtd 28.06.23
1	23 of 480	1.1.0	b) Two (2) nos twin screw LDO unloading pump motor set of capacity 500 m3/hr each with matching simplex strainers (2 Nos for each pump) at their suction.	Both statements are contradict. Kindly confirm.	Bidder to follow the Pump capacity as per Tender P&ID of FOHS.
	34 of 480	2.01.02	a) Two (2) nos LDO pumps-set each of capacity 50cu.m/hr complete with all the accessories o drive and mounting as specified for unloading of road tankers.		
	262 of 480	PE-DG-497-166-A001	P&ID - LDO Unloading Pump capacity is 50cu.m/hr		
2	23 of 480	1.1.0	One (1) no. of Rectangular, Carbon Steel Welded, Drain Oil tank of net capacity 6 cum dully fitted with appurtenances, accessories, instrumentation, controls and fittings etc.	Both statements are contradict. Kindly confirm.	Bidder to follow the DOT capacity as per Tender P&ID of FOHS.
	201 of 480	1.1	Drain Oil Tank Capacity is mentioned as 10KL		
	262 of 480	PE-DG-497-166-A001	Drain Oil Tank Capacity is mentioned as 6KL		
3	26 of 480	1.1.0	g) Five (5) nos LDO unloading flexible neoprene hoses of size 75NB with minimum length as 8.0m. Each hose shall be to suit the layout in unloading area.	75NB is not available in market, so we are going with 80NB Hose.Kindly confirm.	Bidder to follow the DOT capacity as per Tender P&ID of FOHS.
	262 of 480	PE-DG-497-166-A001	80NB Hose		
	202 of 480	1.4	80 NB X 8.0 m long for HSD/HFO Any other fitting required to match the HSD/HFO nozzle shall also be provided by bidder.		
4	23 of 480	1.1.0	j) Platform and approach ladder to the platform for foam pourer nozzle.	Generally foam pourer platform will be done by fire fighting contractor. However tank contractor will provide pad plates on storage tank as fire fighting system requirement. Now you are requested to please confirm platform is in whose scope	Follow the Tender sepcification. Same shall be under bidder scope.
5	23 of 480	1.1.0	k) Sump pumps (1W+1S) where ever required due to layout constraints with in terminal point. Type and capacity of these pumps will be decided during detailed engineering stage without and commercial implication.	Sump pumps requirement is specified in specification and P&ID. We hope additional sump pumps are not required. If any additional pumps are required, please confirm at this stage itself enabling us to consider in costing	Follow the specification. Same shall be decided during detailed engineering, if found applicable.
6	35 of 480	2.01.03	a) LDO pipe lines, LDO drain pipe lines, all instrument air lines, complete with all supports, hangers, strainer, bends, flanges, counter flanges, gaskets, valves, fittings etc. all piping required to complete the system shown in tender drawings shall be furnished by contractor as specified.	We feel contractor is Bidder and hence all pipes and pie fittings shall be supplied by bidder. Please confirm	Bidder understaning is correct.
	23 of 480	1.1.0	h) scope of supply - Complete Piping & fittings, Valves, flanges, fasteners, gaskets, structural supports, pipe trestle within dyke and pump house as required within the terminal point.		
7	35 of 480	2.01.03	e) LDO tanks in the scope of the Bidder shall be provided with fixed fire protection system using foam. Additionally, medium velocity water spray system shall be provided for LDO tanks.	Both statements are contradict. Kindly confirm. We will provide nozzle for foam pourer.	As per Exclusion at CI2.0.0, b, Page 26, Fire protection is excluded from bidder scope. However nozlle for foam pourer on Tank is in bidder scope as per specifiatorn.
	25 of 480	2.0.0	Exclusion - b) fire protection system for fuel oil storage tanks.		
8	38 of 480	1.01.01	Tank shall be designed, fabricated and erected keeping in view of the future provisions for storage of Methanol in place of LDO	Please confirm whether it is external floating roof or internal floating roof. It is very difficult to convert to external floating roof. Even for internal floating roof, aluminium floating roof can be erected. Carbon steel floating roof is difficult.	Tank is provided with a Fixed type roof. No floating roof is in bidder scope. Same shall be done by Customer in near future.
	38 of 480	1.01.02	Tank shall be designed with provisions so that fixed roof type may be converted into floating roof type for future storage of Methanol.		
9	39 of 480	3.02.00, 3.03.00 & 3.04.00	Paint specification mentioned clearly for LDO tank	Both specifications are different. Hence we feel we have to consider clauses 3.02.00, 3.03.00 & 3.04.00 for painting of LDO	Tank paining is clearly mentioned in specification at CI 3.02.00 onwards at page 39. For Piping & others , follow LP piping painting specification at Page 55.
	52 of 480	1.06.11 SI.No:2	Paint specification mentioned for uninsulated tank, also it is not mentioned whether this paint is for external or internal		
10	-	-	Sump pit in pump house area and OWS oil chamber, pit depth is not mentioned.	Kindly provide sump depth for sump pit and oil chamber.	Sump depth is given in FOPH drawing at Page no 268 of Tender Specification. Depth of Oil chamber shall be decided during detailed engineering. However, pls note that the IL of incoming channel to OIL water separator is at EL (-) 1.5m as per Unloading area drwg at Page no. 265 of specification.
11	263 OF 480	PE-DG-497-166-A004	In GAD- 1700KL LDO storage tank centre column is mentioned.	kindly confirm whether to proceed with centre column or can we go with self supported roof structure.	Bidder to follow the specification.
12	32 of 480	16.0.0	vii) Engineering for this project is being carried out in 3D environment at BHEL end. Name of engineering platform on which BHEL is doing the project is Smart Plant Suite. This is being done to have automated interface checking and thereby minimising rework at site. Hence, bidder to prepare all layout drawings using 3D Modelling software. These drawings will also be made available to BHEL in soft for checking interface with other agencies in consolidated layout drawings. Bidder's inability to prepare drawing using 3D Modelling software will not be criterion for evaluation of their bid.	Kindly confirm whether Plant 3D is OK to prepare 3D layout	Refer Annexure-1 , attached for detailed 3D Modeling requirement.
13	205 of 480	-	In Sub Vendor list Micon Valves vendor name is Not having for Valves.	Micon valves are approved by BHEL/NTPC. For other projects we are taking valves from Micon. Kindly confirm whether we can consider Micon valves or not	Micon Valves is approved make of BHEL.
14	360 of 215	2.02.00	Radar type level transmitter	kindly confirm which type of level transmitter need to consider. Further we feel radar level transmitter may be required for storage	Bidder to refer the P&ID of FOHS for the type of Transmitter to be used for FOHS.
	96 of 215	2.03.00	Ultrasonic type level Transmitter		
15	369 of 215	12.00.00	coriolis mass flow meter	kindly confirm which type of Flow meter need to consider.	Bidder to refer the P&ID of FOHS for the type of Flow meter to be used for FOHS.
	374 of 215	19.05.00	electro magnetic flow meter		
16	202 of 480	1.6	Pipe material specification is given as API 51 ERW	For low quantities, we are not getting API 5L in the market. Hence request you to give clearance for IS1239/IS3589 in place of API 5L ERW	Bidder to follow the specification. Any change in material shall be taken up with end customer in detailed engineering.
17	203 of 480	1.6	4) Gasket is Spiral Wound SS 316	Kindly confirm type of Gasket need to consider.	Bidder to follow the GA drwg of Tank for MOC of Gasket.
	443 of 215	3.1.18	Gasket is full face rubber or CAF		
	263 OF 480	PE-DG-497-166-A004	Gasket is Teflon		
18	443 of 215	3.1.15.1	All stair treads shall be 32 mm steel fabricated gratings. Each tread, if needed, shall be housed in individual steel fabricated frame which shall be adequately supported from the tank outer periphery. The staircase shall have minimum 750 mm clear width	kindly confirm whether to follow stair treads with 32mm steel fabricated grating or can we follow as per EIL standard with 25mm Stair treads.	Bidder to follow the tender specification.
19	278 of 480	Point no. 7	Double compression Ni-Cr plated brass cable glands	We will provide Nickel Plated Brass cable glands only, As cable glands are less no of quantity vendors will not support for Nickel Chromium cable glands. Kindly confirm.	Bidder to follow the specification. Any change in material shall be taken up with end customer in detailed engineering.
20	345 of 480	Point no. 3	All motorized valves shall be supplied with Non-intrusive Profibus based Electric Actuator (with integral starter) for Fuel Oil Handling package along with necessary interface units for linking to corresponding Control System as applicable. The interface of these actuators with DCS shall be with PROFIBUS DP interface. All actuator settings including torque, limit shall be possible without opening the actuator cover and LCD indication shall be available integral to actuator body. Open/Close command termination logic suitably built inside the actuator Details shall be referring in the specification.	Actuators are intergral starter type as per specification,so we have not considered any type of junction boxes for actuators.	Bidder to follow the tender specification.
21	360of 480	2.01.00	Microprocessor based 2 wire loop powered electronic transmitter with 4-20mA DC HART/ Profibus PA complying to IEC 61158 output signal shall be provided.	We are considering HART protocol 4-20mA analog signal for transmitters, we have not considered any Profibus communication. Please confirm	Microprocessor based 2 wire loop powered electronic transmitter with Profibus PA complying to IEC 61158 output signal shall be provided.
22	369 of 480	12.00.00	Specification of coriolis flow transmitter process temperature range : 0 - 200 deg C	For Flowmeter Temperature range is upto 200 deg C as per specification as per the process requirement we have considered 50 deg C as operating temperature. Kindly confirm	Bidder to follow the tender specification.
23	271 of 480	1.01.00	Strainer element is mentioned for drain oil pump as mandatory spare	Kindly note as it is vertical single screw pump for which strainer element is not applicable. Please confirm	Bidder to follow the specification. Applicability of spares shall be discussed and finalized with end customer during detailed engineering.
24	271 of 480	1.07.00	Gland packing is mentioned as mandatory spare	We are providing mechanical seal for all pumps and hence gland packing is not applicable. Please confirm	Bidder to follow the specification. Applicability of spares shall be discussed and finalized with end customer during detailed engineering.

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25	271 of 480	1.12.00	Dirty oil pump complete assembly with motor as mandatory spare	We understand 5cum/hr vertical single screw pump with motor set to be given against this item. Please confirm	Specification is clear. Bidder to follow the same.
26	273 of 480	2.01.00	Transmitters of all types and model no.(for the measurement of Pressure, differential pressure , flow, level etc.) as mandatory spare	Kindly note we have only one flow meter in entire systems for which we understand against this item, flow meter -1no also to be given as spare. Please confirm	Specification is clear. Bidder to follow the same.
27	273 of 480	2.01.00(2)	Temperature elements	Not applicable for this package	Applicable. Refer Tank under P&ID of FOHS.
28	273 of 480	2.01.00(3)	Local indicators like temperatuer gauge, pressure gauge, differential pressure gauge, flow gauges, level gauges etc as mandatory spare	Temperature gauge is not applicable for this package. Flow meter is mentioned against 2.01.00(1) and hence flow gauge is not applicable for this line item. Only we have to provide pressure gauge, differential pressure gauge, level indicator against this item. Please confirm	Specification is clear. Bidder to follow the same.
29	273 of 480	2.01.00(4)	Process actuated switch devices includes all types of pressure, differential pressure, flow, temperature, level switch devices	Differential pressure, flow temperature level switch is not applicable for this package. Only pressure switch shall be supplied against this line item. Please confirm	Specification is clear. Bidder to follow the same.