



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-22-Jul-19

CORRIGENDUM- 02

PROJECT	:	1 x 660 MW Panki STPP
PACKAGE	:	FUEL OIL HANDLING AND STORAGE SYSTEM
ENQUIRY NO	:	PE/PG/PKI/E-6256/2019 Dt. 04.07.2019
SUBJECT	:	Pre – Bid replies

Type of Corrigendum			
Technical Corrigendum -	☒	Commercial Corrigendum -	☐

In reference to the above mentioned tender enquiry please note the following.

1. Replies of Pre-Bid queries (attached).

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

Vinit Kumar Verma
Dy. Manager

PRE BID CLARIFICATION SCHEDULE				
Project:	1x660 MW UPRVUNL PANKI TPS, EXTENSION			
Package:	FUEL OIL UNLOADING AND STORAGE SYSTEM			
Sr.No.	Section/Clause/ Page No.	Statement of the referred clause	Clarification/ Confirm action required	BHEL REPLY
A	Mechanical			
1	SPECIFICATION NO. PE-TS-426-166-A001 /Page no. 15 of 593 /Cl. no.1.1.0(j)	Minimum 110 nos. (i.e., one full rake of 50 wagons plus 10% margin) of 80 NB neoprene rubbers	As per P&ID, there is one hose for each road tanker. But statement says one full rake of 50 wagons. Kindly confirm whether it is BTPN or TOH wagon.	Bidder to refer clause No.22.4, page No. 151 of 593. It is mentioned that "The light diesel oil (LDO) shall be received at site in BTPN wagons of the Indian Railway system."
2	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 15 of 593 / Cl. No. 1.1.0(k)	Pipes will be free issued to bidder for Fuel oil handling system package. However, flanges, fasteners, gaskets, supports, pipe trestle within dyke and pump house as required etc. as applicable within the terminal point will be in vendor scope.	Refererred clauses are contradicting regarding the scope of supply of pipes. Please clarify.	Pipes will be free issued to bidder for Fuel oil handling system package. However, Pipes required for tank nozzles (LDO, Drain Oil Tank etc.) shall be in bidder scope.
	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 15 of 593 / Cl. No. 1.1.0(l a)	Complete piping, valves, fittings, flanges, traps, fasteners, gaskets, with suitable hangers, supports, pipe trestle within dyke and pump house as required etc. as applicable within the terminal point.		
	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 175 of 593 / Cl. No. 26.4	Scope shall include all piping, valves & specialties as indicated in Annexure-I of this chapter as a minimum. However all piping as required for the completeness of the system shall be supplied.		
3	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 15 of 593 / Cl. No. 1.1.0(l C)	Sump pumps (W+S) 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 and with capacities are already given in tender spec. If any additional pumps are required kindly confirm now so that we can quote accordingly	Bidder to refer P&ID for detail.
4	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 15 of 593 / Cl. No. 1.1.0(k)	One (1) no drain oil tank of 10m3 capacity to be located in the fuel oil unloading pump house, including its all the accessories.	Both statements are contradictory. Kindly confirm how many drain tanks are there.	Bidder to provide one (1) no drain oil tank of 10m3 capacity to be located in the fuel oil unloading pump house, including its all the accessories.
5	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 156 of 593 / Cl. No. 22.7.5	Two drain oil tank shall be furnished to collect the oil drained from various pipes		
6	SPECIFICATION NO. PE-TS-426-166-A001 /Page no. 152 of 593 /Cl. no.22.6.1(c)	One (1) number drain oil tank of capacity ten (10) cu.m complete with accessories, instrumentation, floor coil heater, suction heater, insulation and cladding located in the unloading pump house.	As the package consists of only LDO oil system, which is low viscous fluid and can free flow in the atmospheric temperature. So there is no need for providing floor coil heater suction heater, insulation and cladding. Kindly clarify	Bidder to provide system considering LDO fuel.
7	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 162 of 593 / Cl. No. 22.8.6	For sizes above 40 NB, valves shall be of class 150/300 (depending on service)Cast Carbon Steel gate valves.		Bidder to note that Cl. No. 22.8.6 ,Page no. 162 of 593 is for Gate valve.

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	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 162 of 592 / Cl. No. 22.8.7	For sizes above 40NB, valves shall be class 150/300 (depending on service) Cast Carbon steel globe valves with plug or ball type disc.	Referred clauses are contradicting regarding the Class of the valves. Please clarify.	Bidder to note that Cl. No. 22.8.7, Page no. 162 of 592 is for Globe Valves
	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 162 of 593 / Cl. No. 22.8.8	For sizes above 50NB, check valves shall be of class 150/300 (depending on service) Cast Carbon Steel valves of swing check type having bolted cover		Bidder to note that Cl. No. 22.8.8, Page no. 162 of 593 is for check valve.
8	SPECIFICATION NO. PE-TS-426-166-A001 / Page no.300 of 593 / PE-DG-426-166-A001/Process and Instrument Drawing of LDO systems sheet 2 of 2	As per the drawing the pump suction line is mentioned as both 300 NB and 250NB sizes. And also pump discharge line as 250NB size.	Please clarify.	Bidder to considered 300 NB size of pipe in pump suction side.
9	SPECIFICATION NO. PE-TS-426-166-A001 / Page no.300 of 593 / PE-DG-426-166-A001/Process and Instrument Drawing of LDO	As per the drawing the valves across the simplex strainer are 300NB limit switch ball valves.	Please clarify.	Bidder to follow the valve selection criteria as per technical specification (clause no. 22.8.5, page no 161 of 593).
10	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 300 of 593 / PE-DG-426-166-A001 Process and Instrument Drawing of LDO systems sheet 1 of 2	The valve selection criteria for fuel Line states that for valves sizes 300 NB & below Ball valve have to be used and for above 300NB Gate valve has to be used where as in the Process and Instrument Drawing of LDO systems of sheet 2 of 2, valves in the pump discharge header and tank inlet is mentioned as 500NB ball valve & motorize ball valve.	Please clarify.	
11	SPECIFICATION NO. PE-TS-435-166-A001 / Page no. 327 of 593 / Cl. No. Annexure -VI	PAINTING SCHEME FOR C2AMD C3 ENVIRONMENT	Kindly confirm which scheme to be used for fuel oil piping and storage tanks.	Bidder to follow painting specification. Painting is subject to customer approval and same shall be provided without any cost implication to BHEL.
	SPECIFICATION NO. PE-TS-435-166-A001 / Page no. 329 of 593 / Cl. No. Annexure -VI	PAINTING SCHEME FOR C4 AMD C5 ENVIRONMENT		
A	Electrical & Instrumentation			
12	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 403 of 593 / Part C Special Technical Requirement	Local Push Button Station	Here you have mentioned, LPBS is in Vendor scope but in Electrical & instrumentation Scope matrix the same is under BHEL Scope. Please Clarify	The same shall be in BHEL's scope.
13	SPECIFICATION NO. PE-TS-426-166-A001 / Page no. 404 of 593 / Part C Special Technical Requirement	DP instruments with minimum Capillary length of 15m is to be supplied.	If capillary length is increase we cannot get the accuracy as mentioned. Since increase in length accuracy level decreases. We suggest capillary length shall be 5m.	Capillary length has to be given in line with process requirement except DPT where it is mentioned as 15 metre.