



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT, NOIDA

Date-1-Aug-18

CORRIGENDUM- 03

PROJECT	:	3X800 MW PVUNL PATRATU TPP PHASE-1
PACKAGE	:	FUEL OIL HANDLING AND STORAGE SYSTEM
ENQUIRY NO	:	PE/PG/PA1/E-5989/2018 Dt. 03.07.2018

Type of Corrigendum			
Technical Corrigendum -	☒	Commercial Corrigendum -	☒

In reference to the above mentioned tender enquiry for **FUEL OIL HANDLING AND STORAGE SYSTEM** package

Please note the following.

1. Reply of pre-bid queries.

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

QUERIES ON CORRIGENDUM 1 & 2				
Project:	3 x 800MW PVUNL PATRATU TPP PHASE-1			
Package:	FUEL OIL UNLOADING AND STORAGE SYSTEM & Misc. Tanks			
Sr.No.	Reference	BHEL Reply, Dt: 21/07/18	TSPL Query, Dt: 26/07/18	BHEL reply dated 31.07.2018
1	sl.no.12 / Corrigendum 01, Pg 4 of 9	Bidder to follow specification.	As per plot plan, Rev.0P given in technical specification AMENDMENT NO - 1, We understood that LDO day tank is located in FO tank farm area only. Please confirm.	Confirmed.
2	sl.no.1 / Corrigendum 01, Pg 7 of 9	Bidder to follow specification and provide steam & condensate system considering wagons with heating coils. Further ,Please refer revised P&ID attached with amendment -01.	From the replies given to other bidders queries, we understood that total number of wagons are 50. Type of wagon is BTPN. Capacity of each wagon is 70.4 cum. Each wagon is connected with 2 numbers of unloading hoses. All these wagons will be heated at once. Please confirm. Still there is a contradiction between the no. of steam hoses (80nos) & no. of condensate hoses (96nos) indicated in the revised Steam & Condensate system P&ID enclosed in technical specification AMENDMENT NO - 1. Please clarify the no. of steam & condensate hoses required. Also provide the initial temperatures of wagons for each type of fuel and heating time required for heating of wagons.	confirmed. Bidder to provide 80 no. of steam & 80 no. condensate hoses as mentioned in specification. Other details shall be provided during detail engineering.
3	sl.no.15 / Corrigendum 01, Pg 7 of 9	Bidder to provide flow gauge suitable for oil measurement other details shall be provided during detail engineering.	SPECIFICATION IS REQUIRED IN BIDDING STAGE ONLY for estimating cost.	Process parameter(pipe size, fuel oil characteristics) are already provided .Other detail shall be finalized during detail engineering.
4	sl.no.26 / Corrigendum 01, Pg 8 of 9	Terminal point shall be near tank farm area within 10m.	Please provide spray water temperature to be considered.	Tentative parameters to be considered as operating temperature ~ 59.8 deg C (Design temperature: 60 deg C).
5	sl.no.28 / Corrigendum 01, Pg 8 of 9	Bidder to follow painting specification attached in section -IA. Painting is subject to customer approval and same shall be provided without any cost implication to BHEL	Both referred clauses are part of section -IA only. Please clarify which clause to be followed.	Painting specification is attached in technical specification.Bidder to refer the same.
6	sl.no.29 / Corrigendum 01, Pg 8 of 9	Refer amendment. Please note that painting is subject to customer approval. Same shall be provided without any cost implication to BHEL.	painting specification given in the datasheet of DM water tank attached in technical specification AMENDMENT NO - 1 is not clear. Please provide the detailed painting specification for surface cleaning, primer, intermediate & finish coats. Please finalize the painting specification during tender stage only, for estimating cost.	Painting specification is attached in technical specification.Bidder to refer the same.
7	sl.no.30 / Corrigendum 01, Pg 8 of 9	Specification requirement is clear, bidder to follow specification.	In SUB SECTION-A-10 OF SECTION VI, painting specification is not given for Condensate storage tanks. Please clarify. Please finalize the painting specification during tender stage only, for estimating cost.	Painting specification is attached in technical specification.Bidder to refer the same.
8	Sl.no.21 / Corrigendum 01, Pg 3 of 9	2 nos of instruments have been indicated in P&ID inline with the criteria (ii)For all other control functions dual redundancy of the sensors shall be provided by the bidder . However bidder to note that the quality shown in P&ID is the minimum requirement.During detail engineering if any additional instruments are required for the safe & reliable operation of plant, bidder shall supply the same without any price/delivery implication.	As per page number --, Section C, C&I specification, Clause Number 19, Triple redundancy required for protection of system/drive and dual redundancy required for all other control functions. Whereas in your revised PIDS you have indicated dual redundancy for the all instruments which protects the drives by tripping and one DPT for each strainer. Triple redundancy shown for TT for controlling of PRDS, floor coil and suction heaters. Being high value involved in instrumentation, we request you to clarify whether we have follow PIDS or referred clause.	Specification requirement is clear, bidder to follow specification.Bidder to note that the quality shown in P&ID is the minimum requirement.During detail engineering if any additional instruments are required for the safe & reliable operation of plant, bidder shall supply the same without any price/delivery implication.
9	Sl.no.1 / Corrigendum 01, Pg 8 of 9	Specification requirement is clear, bidder to follow specification.	We understood that for the scope, we have to follow "STANDARD ELECTRICAL SCOPE BETWEEN BHEL AND VENDOR" Page No. 373 of 598 of tender document.	For the scope of supply of the cables the detail is available on the sheet no.-372 at sr. No.-3. Bidder to comply with all the sheets under the STANDARD ELECTRICAL SCOPE BETWEEN BHEL AND VENDOR
10	Sl.no.2 / Corrigendum 01, Pg 9 of 9	Bidder to follow specification.Other detail shall be finalized during detail engineering.	Point not clarified. As specification has no clarity we have raised query on material type. Please provide clear material to be considered under this FOHS package in the bidding stage only.	Insulation specification is attached with technical specification. Other detail shall be finalized during detail engineering.
11	Sl.no.7 / Corrigendum 01, Pg 9 of 9	Specification requirement is clear, bidder to follow specification.	Point not clarified. We are terminating all control & instrumentation cables upto junction box (including junction box) further to DCS is in purchaser's scope. No LCP considering in our scope. Please confirm.	Specification requirement is clear.If the system designed by bidder requires the LCP to meet the Specification requirements then bidder have to consider.
12	Sl.no.8 / Corrigendum 01, Pg 9 of 9	Specification requirement is clear, bidder to follow specification.The accessories required and not mentioned specifically shall also be in the scope of Bidder.	Point not clarified. Clarity on capillary requirement for pressure measurements is necessary at this stage. Because, considering with capillary and without capillary has huge price variation. Hence, please clarify on capillary for pressure & differential gauges, pressure & differential transmitters and provide length of capillary to be considered, if capillary required.	Specification requirement is clear, bidder to provide the capillary as shown in the instrument installation drawings.The capillary length shall be provided as per site conditions.