



**BHARAT HEAVY ELECTRICALS LIMITED**  
**PROJECT ENGINEERING MANAGEMENT, NOIDA**

Date-10-Mar-26

**CORRIGENDUM- 02**

<b>PROJECT</b>	<b>:</b>	<b>2 X 660 MW CSPGCL KORBA WEST- EPC</b>
<b>PACKAGE</b>	<b>:</b>	<b>FUEL OIL HANDLING AND STORAGE SYSTEM</b>
<b>ENQUIRY NO</b>	<b>:</b>	<b>77/25/6301/AMI dated 21.02.2026</b>
<b>SUBJECT</b>	<b>:</b>	<b>Tender due date extension and BHEL response to pre-bid queries</b>

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

Bidders are requested to note the following:

- 1. Due date & time of bid submission has been extended up to 17.03.2026 @ 12.00 PM. Bid opening shall be done at 04:00 PM on the due date.**
- 2. BHEL response to pre-bid queries is enclosed.**

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

**Amit Kumar**  
**Manager/BOP**

## BHEL Response to Pre bid Queries

Sl. No.	Document	Page	Clause No.	Description	Query	BHEL Response
1	Tendernotice_5	6 of 13	42	Construction power (three phases, 415 V/ 440 V) will be provided free of cost at one point near the site (within project premises) at a distance of approx. 500M, within 06 months from the date of start of work at site. Further distribution shall be arranged by the contractor at his own cost and services. For initial 06 months, contractor has to arrange construction power (including DG sets) at his own cost.	<p>However, as per Cl. 22(D) of the Tender Notice, the E&amp;C completion period is six (06) months from the date of front availability, which is defined as the date when the site informs the vendor to mobilize manpower and resources.</p> <p>This creates a discrepancy, as the project duration is also six months, which implies that the contractor would need to arrange construction power for the entire project duration.</p> <p>Customer shall provide the construction power to contractor at free of cost from the date of front availability.</p>	<p>PSWR to reply</p> <p>Amended Clause is as below:</p> <p>Construction power (three phases, 415 V/ 440 V) will be provided free of cost at one point near the site (within project premises) at a distance of approx. 500M. Further distribution shall be arranged by the contractor at his own cost and services.</p>
2	TechSpec1of3	42 of 297	1.1.0(c,d,e)	<p>c) Two (2) numbers vertical single screw pumps motor set with all accessories of capacity 5m<sup>3</sup>/hr to transfer recovered oil from Oil water separator's (OWS) oil pit located near tank farm area to Drain Oil Tank.</p> <p>d) Two (2) number vertical centrifugal sump pump motor sets with all accessories of capacity 10 m<sup>3</sup>/hr. in Fuel oil Pump house (FOPH) to transfer oil water mixture from FOPH to Oil water separator.</p> <p>e) Two (2) numbers Vertical Single Screw Drain Oil pump motor sets with all accessories of capacity 10m<sup>3</sup>/hr in Fuel oil Pump house (FOPH) to transfer Drain Oil from Drain Oil Tank to LDO Storage Tanks.</p>	Kindly confirm the pressure of the unloading pump, sump pump & single screw pump.	Bidder to calculate the pump head requirement as per layout.
3	TechSpec1of3	42 of 297	1.1.0(g)	Ten (10) 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.	As per the P&ID size of the hoses are mentioned as 80NB and we are following the same, kindly confirm.	Confirmed.
4	TechSpec1of3	72 of 297	1.06.10(A)	Internal protection of DM tank & other vessels/tanks (as applicable)	We normally follow for internal surface of LDO tank as Double Boiled Linseed oil, please clarify we can follow the linseed oil or as per internal painting mentioned in 1.06.10.	Painting specification is mentioned in clause no. 3.00.00 CLEANING AND PAINTING (Page No. 60-61 of 477). Painting shall be subjected to NTPC/Customer approval during detailed engineering.
5	TechSpec1of3	73 of 297	1.06.10(B)	External protection vessel, tanks	Kindly confirm the same has to be considered for external painting.	
6	TechSpec1of3	74 of 297	1.06.11- A(2)	External protection for piping	We assume painting mentioned against design temp <= 60deg C is applicable to LDO piping, kindly confirm.	
7	TechSpec2of3	2 of 53	P&ID	Unloading Pump suction common header line size is mentioned as 450 NB	For 100m <sup>3</sup> /hr flow with a velocity of 1 m/s 200NB pipe size is sufficient, kindly confirm.	Bidder to follow P&ID.
8	TechSpec2of3	2 of 53	P&ID	Individual unloading pump suction line size is mentioned as 200 NB	For 50m <sup>3</sup> /hr flow with a velocity of 1 m/s 150NB pipe size is sufficient, kindly confirm.	Bidder to follow P&ID .
9	TechSpec2of3	2 of 53	P&ID	Unloading Pump discharge common header line to tank inlet size is mentioned as 350 NB	For 100m <sup>3</sup> /hr flow with a velocity of 1.5 m/s 150NB pipe size is sufficient, kindly confirm.	Bidder to follow P&ID.
10	TechSpec2of3	2 of 53	P&ID	Drain lines from equipment drain and tank drain the line size is mentioned as 80NB	Generally, a 25 NB pipe size is sufficient for equipment drain, and a 50 NB pipe size is sufficient for tank drain.	Bidder to follow P&ID.
11	TechSpec2of3	2 of 53	P&ID	Tank outlet line size is mentioned as 400NB.	Kindly confirm the forwarding pump total capacity in order to arrive the pipe size.	Bidder to follow P&ID.

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Sl. No.	Document	Page	Clause No.	Description	Query	BHEL Response
12	TechSpec2of3	2 of 53	P&ID	Recirculation size is mentioned as 200NB	Kindly confirm the flow enabling us to arrive the pipe size.	Bidder to follow P&ID.
13	TechSpec2of3	2 of 53	P&ID	Intertank connection the size is mentioned as 300NB	As the unloading pump suction size is 200NB the same pumps are used for inter tank transfer so the same pipe size is sufficient, kindly confirm.	Bidder to follow P&ID.
14	TechSpec2of3	2 of 53	P&ID	For DOT pump discharge the line size is mentioned as 80NB.	For 10m3/hr flow with a velocity of 1.5 m/s 50NB pipe size is sufficient, kindly confirm.	Bidder to follow P&ID.
15	TechSpec2of3	2 of 53	P&ID	For recovery oil pump discharge the line size is mentioned as 50NB.	For 5m3/hr flow with a velocity of 1.5 m/s 40NB pipe size is sufficient, kindly confirm.	Bidder to follow P&ID.
16	TechSpec2of3	2 of 53	P&ID	Instruments, vent and drain lines.	For all	Vent size is 50NB and Drain Size shall be as per P&ID. For Instrument refer "INSTRUMENT INSTALLATION DRAWING" page No. Page 395 of 477 of technical specification.
17	TechSpec2of3	2 of 53	P&ID	The capacity of sump pumps to transfer oil water mixture from FOPH to OWS the capacity is mentioned as 30 m3/hr.	As per the scope of supply - TechSpec1of3 1.1.0(d) the capacity of sump pump is 10 m3/hr, which is contradicting we are considering the sump pump capacity as 10 m3/hr, kindly confirm.  Incase the flow is 30m3/hr the given pipe size of 80NB is not sufficient the same has to be 100NB	Sump pump capacity is 10m3/hr.
18	TechSpec2of3	2 of 53	P&ID	In the P&ID the recovered oil discharge is connected to DOT.	As per the layout the OWS is near to storage tank, so we are planning to connect recovered oil piping to DOT discharge line, kindly confirm.	Bidder to follow P&ID.
19	TechSpec2of3	2 of 53	P&ID	Legends- LT(Ultrasonic Level Transmitter)	We prefer non-contact radar level transmitter for 2000KL LDO storage tanks and Ultrasonic Level transmitter for DOT, OWS and Sump area.	Noted. However, same shall be subjected to NTPC/Customer approval during detailed engineering.
20	TechSpec1of3	240 of 297	1.1	LDO storage tank dimension is given as 16mtr Dia x 15Mtr Ht.	Where as in the LDO storage tank GAD the same is mentioned as 16 mtr Dia x 12 mtr Ht is mentioned, kindly confirm which one is correct.	Tank Dimension is 16mx15m. Same is mentioned in Elevation view indicated in GA drawing.
21	TechSpec2of3	3 of 53	GAD of LDO storage tank	Nozzle Schedule of Ldo storage tanks	The given nozzle schedule is not matching with the P&ID such as shell nozzles, roof nozzles, sizes, please clarify.	Bidder to follow P&ID for nozzle sizes.
22	TechSpec2of3	7 of 53	Layout	Intertank connection.	Intertank connection is not shown in layout the same is there in P&ID, please clarify.	Bidder to follow P&ID for inter connection line.
23	TechSpec2of3	9 of 53	Mandatory spares	Floor coil heater for OWS- 15% of total length of oil.	As the medium is LDO, no floor coil heater is required hence the same is not applicable, kindly confirm.	Noted.
24	TechSpec2of3	9 of 53	Mandatory spares	Transfer pump complete assembly with motor.	No transfer pump is in our scope of supply, hence the same is not applicable.	For mandatory spare consider Transfer pump same as unloading pump. In line with mandatory spares list, this unloading pump is in addition to LDO unloading pump.
25	TechSpec2of3	9 of 53	Mandatory spares	Water pump complete assembly with motor	As per P&ID water pump is in ETD vendor scope, so the same is not applicable to us, kindly confirm.	Confirmed.
26	TechSpec2of3	10of 53	2.02.00 (a) Mandatory spares	Transmitters qty is given as 10% of each type & model which ever is more.	Kindly note only 1no. Of flow meter is there in entire package for which we feel no spare is required, kindly confirm.	Specification requirement is clear. Bidder to comply with the same.

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Sl. No.	Document	Page	Clause No,	Description	Query	BHEL Response
27	TechSpec2of3	10of 53	2.02.00 (b) Mandatory spares	Temperature element	As per P&ID no temperature element are in our scope of supply, hence the same is not applicable to us, kindly confirm	Specification requirement is clear. Bidder to comply with the same.
28	TechSpec2of3	45 of 53	1 & 2	<p>1.The control system for Fuel Oil Handling system shall be DDCMIS based (BHEL's scope). Profibus based controls and conventional controls (hardwired 4-20mA/DI/DO) are envisaged for this package.</p> <p>2.Bidder to provide Profibus PA protocol compatible PT(Pressure Transmitters),DPT(Differential Pressure Transmitters),TT(Temperature Transmitters) and Flow/Level Transmitters(DP type) for entire Fuel Oil Handling system.</p>	<p>We understand that Sl. No. 2 requires all field instruments to be Profibus-based, whereas Sl. No. 1 indicates both Profibus and conventional hardwired signals. These two points appear to be contradictory.</p> <p>Kindly confirm whether, All field instruments shall be Profibus PA based or combination of Profibus and conventional (4–20 mA / DI / DO) instruments is to be considered.</p>	<p>Please note that PROFIBUS PA based transmitters shall be envisaged for PT,TT and DP based LT/FT only.</p> <p>Other transmitters shall be conventional (4-20 mA HART based) type.</p>
29	TechSpec2of3	46 of 53	9	Redundancy of instruments to be provided by bidder shall be as follows:- (i) Triple redundancy for all analog and binary inputs required for protection of system/drives.	As per P&ID there is only double redundancy, please confirm which one is correct.	Triple redundancy to be provided for " all analog and binary inputs required for protection of system/drives" in line with the specification requirement.
30	TechSpec2of3	46 of 53	10	Bidder to provide Comprehensive Annual Maintenance Services (AMS) for three (03) years after warranty period for Profibus instruments of Fuel Oil Handling System.	<p>We provide 1 year warrant for entire package.</p> <p>For instrument no supplier will not provide 3 years warrant for the instruments, so we can't provide the same.</p>	Specification requirement is clear. Bidder to comply with the same.
31	TechSpec2of3	53 of 53	2.01.00	Microprocessor based 2 wire loop powered electronic transmitter with 4-20 mA DC HART/ Fieldbus (Foundation Fieldbus /Profibus PA complying to IEC 61158.) output signal shall be provided.	For all instruments both options are provided so we are preferring 4-20 Ma DC HART for all PT, DPT and Ultrasonic LT.	<p>Please note that PROFIBUS PA based transmitters shall be envisaged for PT,TT and DP based LT/FT only.</p> <p>Other transmitters shall be conventional (4-20 mA HART based) type.</p>
32	TechSpec2of3	53 of 53	2.02.00	GUIDED WAVE RADAR TYPE LEVEL TRANSMITTER	We prefer non-contact radar level transmitter. Further for LT it is asked HART protocol only and we are providing the same.	"Guided wave" RADAR Level Transmitter to be considered by the bidder.
33	TechSpec3of3	9 of 127	12.00.00	SPECIFICATION FOR CORIOLIS FLOW TRANSMITTER	As per specification we will provide 4-20 mA DC, HART Compatible tupe.	Specification requirement is clear. Bidder to comply with the same.