

**Replies to Queries raised by Bidders (Set-2) for tender for Construction of IWT Terminal at Sahibganj, Jharkhand**

Sl.No.	Item Description	Reference			As per Bidding Documents	Bidders' Comments / Queries	IWAI's Replies
		Bid Volume / Part	Page	Clause			
1	Electrical	Dwg IWAI/ST/1016	Sh 1 of 2		415V main PCC Panel	Bidder understands, Attached SLD (IWAI/ST/1016 sh 1/1) in the tender requirement. Bus Bar Sizing Upstream & Downstream), Breaker sizing (Down stream), CT sizing (Down stream) & Transformer (750 KVA) Sizing is to be confirmed.	All equipment sizing given in the SLD or elsewhere are tentative. Actual sizing shall be done by the EPC contractor during detailed engineering and approval taken from the Engineer-in-charge
2	Navigational Aids	Volume 2	201	4.23.10	Scope	The scope is not clear. Kindly provide the specification of the same.	The navigational aids required for Phase-1 of the Terminal includes channel marker buoys & buoys marking the periphery of terminal. The specifications for these buoys are furnished in Clause 4.23.10 of Volume 2 of Tender Document.
3	Electrical	Volume 2	11	1.3.15.2	110V DC, 2 wire grounded	Normally either positive or negative shall be grounded not the both. Please confirm.	Grounded here refers to either one (+ve or -ve) not both.
4	Electrical	Volume 2	207	5.1-1.7	Bus coupler (Tie) Feeders in HT panel	As per tender requirement and attached Electrical SLD (IWAI/ST/1016 sh1/1). Bus coupler is not indicated in 11kVHT panel. Kindly confirm.	Since HT panel has only one feeder, hence Bus Coupler is not required.
5	Electrical	Volume 2	217	5.1.3.1	ACDB fault level-3 KA	In Electrical SLD (IWAI/ST/1016 sh 1/1), fault level is mentioned as 35 KA. Kindly Confirm.	Fault level required for bus & incomer is 35kA as mentioned in SLD not 3KA.
6	Electrical	Volume 2	230	5.1.5.1	11kV cable shall be suitable for Unearthed system	Clause 1.3.16.2 point no. 17 (a) states Earthed system for 11 KV cable. Kindly Confirm.	11kV cable shall be suitable for Unearthed system.
7	Electrical	Volume 2	211	5.1.2	The tolerance for frequency for transformer is +3 to -5 %	Clause no, 1.3.16.2, page no. 11, states tolerance for frequency as +/-3%. Kindly confirm.	The standard frequency shall be 50 Hz with a tolerance of ± 3 %.
8	Electrical	Drawing No. IWAI/ST/1016	Sh.01/0 1		11kV HT panel. Transformer & LT panel are shown in pump house	Kindly provide the Pump house equipment layout drawing.	11kV HT Panel, Transformer & LT Panel shall be suitably accommodated in the Pump room of size 25m x 10m. Pump room size is mentioned in Drawing No. I-521/ST/1007.
9	Stockyard Development	Volume 2	25	2.1.19	Density of Stone Chips : 1.6 T/cts.m.	Clause 8.4.2 requires 1200 TPH @ 1.7 T/cu.m. Please confirm material characteristics for stone chips and indicate required TPH for Coal (0.8 T/cu.m.) and crushed stone (1.6 T/cu.m.), No. of grades (with respective quantities) of coal and stone chip to be stored simultaneously may also be indicated.	Material characteristics :- Coal Density = 0.8t/cum Angle of Repose = 37 deg. Angle of Surcharge = 20 deg. Moisture Content = 10 to 15% Lump Size = 80mm Abrasive = Moderately Abrasive Stone Chips 1.6t/cum 35 deg 15 deg 1 to 3% 40 to 80mm Very Abrasive
10	Hydrant System Design Parameters	Volume 2	306	9		Fire fighting : a) CI 9.3.3.(a) PI clarify that one fire risk at berth and one fire risk at stockpile need to be considered simultaneously or one risk either at berth or stockyard. b) CI 9.3.3 (f): Fire fighting line will be underground in the stockyard? c) Whether HDPE pipe line for FF system is acceptable? d) Whether firefighting line with hydrants is to be provided on the conveyor galleries beyond stockyard or the hydrants can be installed at the ground level along the conveyor?	a) The fire fighting system shall be designed to cater single major fire risk at a time. b) The fire line should be under ground in the stockyard. c) HDPE pipes for FF system may be used in confirmation to the IS codes and standard practices. d) Hydrants shall be installed at the ground level along the conveyor.
11	General	Volume 2	317	10.2.1	SPM concentration at the point of dust generation shall be limited to 5mg/m3	Confirm that DS shall be provided at the conveyor transfer points and if yes, please clarify / confirm the following: a) Type of system envisaged at TT 9,10 & 11 b) Discharge end of the tripper at the berth conveyor c) Acceptable SPM concentration level.	Dry Fog type DSS shall be provided at the conveyor transfer points and tripper discharge end. The SPM concentration level shall be limited to 5mg/m3
12	Dust Suppression Systems	Volume 2	313	0.3.2(B)	Water supply to meet the full requirement of the Dust Suppression System, including requirement of the future facilities.	Please Confirm, whether water distribution system will be common for Phase 1 & Phase 2. If yes, confirm whether the stockpile area in future is same as in the present phase to work out water/tank/pump requirement.	The water distribution system will be common for Phase 1 & Phase 2 and the stockpile area in future will be same as in the present phase.
13	Dust Suppression Systems	Volume 2	313	10.3.2(A)		Water reservoir is 'by others'. Please clarify. Also clarify, water storage capacity to be considered.	Water reservoir for Dust Suppression System & Fire Fighting System shall be in the scope of contractor. The capacity of the reservoir shall be 500 cum which includes 150 cum for Dust Suppression System and 350 cum for Fire Fighting System.
14		Volume 2		Bill of Quantities		Bill of Quantities does not contain item for Boundary Wall, Fencing and Gates.	The Boundary Wall, Fencing and Gates should be considered under monthly RA Bill.
15	Dust Suppression System Control Requirements	Volume 2		10.2.3(D)		Reservoir and Pump House for water supply for Dust Suppression / Fire Fighting is not in the scope of the tenderer. Please confirm.	The Reservoir and Pump House for water supply for Dust Suppression & Fire Fighting is in the scope of the contractor.
16	Vehicle Parking Area					Specify type of pavement for vehicle parking area of stockyard. Also please indicate the heaviest size of vehicle?	The vehicle parking area shall be hard stand type consisting of stone aggregates laid & compacted to WBM specifications, rolled with 3 wheeled road / vibratory roller 8-10 capacity to proper grade & requisite type of screenings / binding material shall be applied to fill-up interstices of coarse aggregate, watering & compacting to required density. The heaviest size of vehicle shall be 10-15 t truck/dumper.
17	Loads	Volume 2	22	2.1.4.1	Berthing Velocity (m/s): 0.45	As per IS 4651 / 4, the berthing velocity of QA5Ws&c is for moderate wind and swell. In the present case there is no question of swell which occur only in sea. Therefore, why this high value of berthing velocity? Also, in the case of flood current no vessel will berth since this is the extreme condition. We feel berthing velocity of Q.25M/sec is adequate. Please Confirm.	In view of maneuvering / operation skill of barge operator in comparison to trained pilots of ships calling at ports, it is considered that berthing velocity of 0.45 m/sec is adequate.
18	Scour Depth	Volume 2	23	2.1.12	Scour depth shall be considered suitably in compliance with available stringent guidelines.	What is the scour depth and what are the stringent guidelines mentioned in the bid document (CL. 2.1.12)? Please clarify.	The scour depth shall be calculated based on IRC 78-2000.
19	Basic Control Architecture	Drawing No. 1-521/ST/ 1021				Note 1 mentions "number of input/outputs of RIO panel and PLC panel shall be considered for Phase 2 with 20% spare. This should read "number of input/outputs of RIO panel and PLC panel shall be considered for Phase 1 with 20% spare.	Number of input/outputs of RIO panel and PLC Panel shall be considered for Phase 1 with 20% spare.
20		Drawing No. 1-521 IWAI/ST/1016 (Sh.1 of 2 & 2 of 2)				RS485 marked 'S' shown connected to alt HT S LT feeders. As per the notes in the drawing, only feeders rated 125 Amp and above will have micro-processor based releases. Please clarify for which feeders RS485 shall be provided.	RS485 shall be provided for feeders rated above 125Amp.
21		Volume 1		1.3.16.2		Please indicate occupancy for Terminal Administration Building for HVAC design	The occupancy for Terminal Administration Building shall be 35.
22		Volume 2				Confirm future conveyors are identical to Phase 1	The future conveyors shall be identical to Phase 1.
23		Volume 2				Electric supply to Barge Loader at 11 KV. Please clarify if lower voltage will be acceptable?	Electric supply shall be with 11kV only.
24		Volume 2				Please clarify whether the 1200 TPH is rated or designed capacity of the Barge Loader.	The 1200 TPH is the designed capacity of the Barge Loader.
25		Volume 2				Please furnish selected belt width, troughing angle, speed, etc of the conveyor system.	Please refer conveyor data sheets.
26		Volume 2				The space for following equipment is not shown, which are required as per SLD: a) 11 W capacitor panels/capacitor bank b) Lighting Transformer c) Welding Transformer	All the equipment shall be suitably accommodated in the final equipment layout prepared by EPC contractor.
27	Stockyard Development	Amendment no. 1	4	Vol II, Clause 1.3.7. Pg. 8	The Contractor shall plan and develop proposed Stockyard to facilitate stock piling of coal and stone chips upto 8 m height. The yard level shall be maintained at +37 m MSL within (the extents shown in Drawing 1-521 /ST/1007.	Stock piling of coal and stone chips up to 8m height mentioned in the amendment no. 1. Whereas drawing no. ST/1027, Rev.0." Profile of Conveyors with cross section " provided vide clarifications dated 03.02.2015 shows Coal & stone chips height as 5.0 m and 4.0m respectively. Kindly confirm.	The Stock piling of coal and stone chips shall be upto height of 5.0 m and 4.0 m respectively.

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28	Site Grading and capital dredging	Replies to Bidders Query	2	10.11.2	The co-ordinates for the dredging areas are given below: 570230 E, 2793985 N 570030 E, 2792485 N 571630 E, 2794085 N 571830 E, 2793885 N	Coordinates provided as 570230E, 2793985N, 570030E, 2792485 N, 571630E, 2794085N, & 571830E. 2793885N are not matching with Hydrographic survey Map provided vide your clarifications dated 03.02.2015. Kindly confirm.	The co-ordinates provided as 570230E, 2793985N, 570030E, 2792485 N, 571630E, 2794085N, & 571830E. 2793885N are with respect to UTM (Universal Transverse Mercator) system, whereas the co-ordinates of hydrographic survey Map are in latitude and longitude. The UTM co-ordinates can be converted to latitude/longitude system and same then can be located on hydrographic survey Map.
29	Construction of the Terminal	Volume-I, Part III	111	10.3.2	In the event that the Contractor fails to achieve any Project Milestone or the Scheduled Completion Date within a period of 30 (thirty) days from the date set forth in Schedule-J, unless such failure has occurred due to Force Majeure or for reasons solely attributable to the Employer, it shall pay Damages to the Employer of a sum calculated at the rate of 0.05% (zero point zero five percent) of the Contract Price for delay of each day reckoned from the date specified in Schedule-J and until such Project Milestone is achieved or the Works are completed; provided that if the period for any or all Project Milestones or the Scheduled Completion Date is extended in accordance with the provisions of this Agreement, the dates set forth in Schedule-J shall be deemed to be modified accordingly and the provisions of this Agreement shall apply as if Schedule-J has been amended as above; provided further that in the event the Works are completed within or before the Scheduled Completion Date including any Time Extension, applicable for that work or section, the Damages paid under this Clause 10.3.2 shall be refunded by the Employer to the Contractor, but without any interest thereon.	We understand that if the Contractor fails to achieve any Project Milestone or the Scheduled Completion Date within a period of 30 (thirty) days from the date set forth in Schedule-J, unless such failure has occurred due to Force Majeure or for reasons solely attributable to the Employer, contractor shall pay Damages to the Employer of a sum calculated at the rate of 0.05% (zero point zero five percent) of the Contract Price for delay of each day reckoned from the date specified in Schedule-J and until such Project Milestone is achieved or the Works completed. However, in the event the final project milestone is achieved within or before the Scheduled Completion Date including any Time Extension, then the damages paid under this clause shall be refunded by the Employer to the Contractor, but without any interest. Kindly confirm.	No changes, tender conditions prevail
30	Dumping Yard	Replies to Bidders Query	5		We request department to make available land (dumping Yard) to dispose of Excavated / miscellaneous material.	In the replies to bidder queries, reference is made to question no.2. However, question no 2 is for contractor working area. Please clarify	The excavated / miscellaneous material shall be disposed of by the Contractor in an environmentally friendly manner up to a lead distance of 5 km as agreed by the Employer on the Site in an approved manner.
31	Site Grading					We observed during our site visit that many trees are present within the project site. Kindly clarify tree cutting is not included in contractor's scope. We also understand that all clearances required for tree cutting will be employer's responsibility.	The tree cutting is included in contractor's scope and all clearances required for tree cutting shall be Contractor's responsibility.
32	Scope of Work					During site visit, we observed that access road to existing Ro-Ro facility goes through the phase 1 area. Please confirm that this access road will be relocated during the construction of Phase 1.	The access road will be relocated during the construction of Phase-1 and shall be in the scope of Contractor.
33	Replies to Queries	Sr.No.3			The process of acquisition of land is underway, the land provided to Contractor would be encroachment free.	During the site visit, we observed that the site location is having establishments like brick structures & hutments. Please confirm, the demolition and disposal of the establishments will be in whose scope?	The demolition and disposal of the establishments like brick structures & hutments shall be in Contractor's scope.
34	Tender Submission	Volume I , Section II - Bid Data Sheet	26	ITS 22.1	The deadline for bid submission is: Date: February 26, 2016 Time: 17:00 Hrs (1ST) Bidders have to submit their bids electronically.	Kindly confirm whether we have to submit hard copy of complete tender submission (Technical + Price), other than the original Bid Security tender fee JV agreement (if applicable), power of attorney, Affidavit If, yes, then please let us know number of copies to be submitted and deadline for the delivery of hard copies.	The hard copy of complete tender is not required to be submitted.
35	Extension of Time	Volume I , Section II - Bid Data Sheet	26	ITB 22.1	The deadline for bid submission is: Date: February 26, 2016 Time: 17:00 Hrs (1ST)	The clarifications & amendment to the tender were received only on 3rd February 2016. These clarifications & amendment have huge implication on the design & mechanical scope of work.  Considering the time required to incorporate these changes in design & also to obtain inputs for bought out items (mechanical works & marine fixtures) from specified vendors, we request you to extend the bid submission date by another 4 weeks, i.e. upto 25th March, 2016.	No changes, tender conditions prevail
36	Design vessel Sizes	Part 2	21	2.1.3	Only 1 vessel size is provided in the clause.	Request you to kindly provide the range of vessels (including molded depth) anticipated at the jetty.	100 T to 3000 T is the range of vessels anticipated at the jetty.
37	Berthing Line	Replies to Bidders Query		SI. 7	Fendering System	Berthing line is 800mm away from jetty face due to using fender AN800 E 3.0 of length 3m or equivalent (mentioned in the clarification dated 03.02.2015). If the contractor uses another equivalent fender, the berthing line may increase or decrease from the jetty face. Please confirm, whether this is acceptable?	For the jetty, suitable type fenders of Trelleborg make or any other equivalent fenders shall be used and the berthing line shall be away from jetty face corresponding to the adopted fender.
38	Fuel Bunker	Drq No. ST 1014				Please confirm, whether Fuel Bunker is in the scope of the Contractor.	The Fuel Bunker is not in the scope of the Contractor.
39	Conveyor Data Sheet	Replies to Bidders Query		SI. 46	Conveyor Data Sheet	As per the datasheet provided clarifications dated 03.02.2015, the belt width = 1000 mm, Troughing Angle = 35 Degree & Belt speed = 2.5 m/s. As per material handling vendors, with these specification it is not possible to achieve conveyor handling system of capacity 1200 TPH. Please clarify.	The following specification shall be considered to achieve conveyor handling system of capacity 1200 TPH. Belt width = 1400 mm, Troughing Angle = 45 Degree Belt speed = 2.0 m/s.
40	Mathematical model studies	Replies to Bidders Query		SI. 6		Please confirm, whether Employer will provide relevant data required for carrying out the mathematical model studies.	The Employer shall provide available data required for carrying out the mathematical model studies.
41	General					We understand that the berthing of vessels will not take place during extreme condition i.e H.F.L. Hence, port operations will not take place. Kindly confirm.	The berthing of vessels shall not take place during extreme condition i.e H.F.L.
42	General					We request to clarify whether Service Tax is exempted for the subject project or the same shall be paid / reimbursed separately in addition to the Contract value.	Service tax is not exempted for this project