

Sl no	Document Ref - Clause	Page	Description	Query	IWAI Response
<b>COMMERCIAL</b>					
1	Last date and time for receipt bids IFB / BDS NIT	2 / 240	As per NIT last date of tender submission is 04.02.2021 at 15.00 hrs	Request you for extending the due date of submission to at least by 30 days from the date of clarification on pre bid queries and date of availability of Geotechnical Investigation report to the bidders as the tenders are invited based on bidders design and drawing.	Minimum four (4) weeks shall be provided to the bidders for bid submission subsequent to issue of clarifications.
2	Original Documents Submission ITB 20.1 BDS	36/240	The bidders shall submit the following 'Original Documents' at the following address before the deadline for bid submission (i.e. up to 13.11.2020 up to 15:00 hours) either by registered post/speed post/courier or by hand, failing which the bids will be declared non-responsive	Bidder requests Employer to clarify the deadline for Original Documents Submission.	Minimum four (4) weeks shall be provided to the bidders for bid submission subsequent to issue of clarifications.
3	Bid Security ITB 19.1 BDS	36/240	Bid Security - INR 1.64 Cr.	With reference to Government Circular No. F.9/4/2020-PPD, we hereby request the employer to incorporate submission of "Bid Security Declaration" in lieu of submission of Bid Security and provide the format for the same.	No Change To be examined at IWAI shall revert back
4	General Experience Clause 2.4.1 Qualification	48/240	Experience under contracts in the role of contractor, subcontractor, or management contractor for at least the last ten [10] years from 1st April 2010 to 31st March 2020 prior to the bid submission deadline	Bidder requests Employer to modify the qualification criteria as per the following  "Experience under contracts in the role of contractor, subcontractor, or management contractor for at least the last Eight [8] years from 1st April 2012 to 31st March 2020 prior to the bid submission deadline."	NO - Change Tender Condition Prevails
5	Specific Experience Clause 2.4.2 Qualification	49/240	b) For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum experience in the following key activities: Designing of Jetty / Harbour in river /sea or a bridge in river / sea or a RCC Dam of minimum INR 65.37 Crores	Bidder requests Employer to modify the clause as per the following  "The designer engaged by the bidder shall be competent enough and shall have completed design of at least 2 (two) similar works during last 8 years. Certificate for this should be enclosed with the technical bid and shall submit detailed company profile for verification and approval. An undertaking from the designer expressing their willingness to associate with the contractor for the Design of the project shall be included.	NO - Change Tender Condition Prevails
6	Clause no 2.4.3 (Volume I -BD)	49/240	Registration with ISO 14001/ OSHAS 18000/ equivalent 1 Single Entity - Must meet requirements 2 Joint Venture - 2.1 All partners combined - Must meet requirements 2.2 Each partner - NA 2.3 At least one partner (This shall be the Lead Partner) - NA	Request you to modify clause for allowing bidder to participate in the bid with condition that in case the bidder is successful in securing the project he will complete the registration with ISO 14001/OSHAS 18000/ equivalent within 1st three months of construction period And allow the bidder to participate in the bid without registration with ISO 14001/ OSHAS 18000/ equivalent.	NO - Change Tender Condition Prevails

7	Equipment type & characteristics 2.6 Qualification	51/240	Maximum age of hydraulic rotary piling rig shall be 8 years	By considering the life span of equipment in good working conditions, Bidder requests employer to consider "maximum age of hydraulic rotary piling rig shall be 15 years "	NO - Change Tender Condition Prevails
8	Appendix to Bid schedule of Adjustment Data Table A Appendix to Bid schedule of Adjustment Data	55/240	Bidder's proposed weightage	Bidder requests Employer to consider the Weightage of Labour, Cement, Steel, Bitumen, POL, Plant & Machinery & other materials as per the Appendix to Bid schedule Data. The each item percentage shall be proposed by bidder in the said format in lieu of special conditions of contract clause 19.10.9 Further, percentage of component submitted in the table shall be used for calculating the escalations as per the formula given in the article 19.10.8 page no 138.	the price variation formulae is provided at pg 138 at 19.10,08
9	Volume-I Clause 4.3	104/240	Permission and approvals	we understand IWAI has taken required permissions and approvals for construction of the jetty incl. environmental clearance. Please confirm.	Refer Volume-I Clause 4.3 (Article 4)
10	Volume-II Clause 3.1.5	104/240	Permits	1) Please mentions what all permits are required to be taken by the contractor and from which authority? 2) please confirm whether owner taken Environmental Clearance for the work? 3) Is there any additional permit required to be taken from any Government authority?	Refer Volume-II Clause 3.1.5 Refer Volume-II Clause Refer 3.3  Refer Volume-I Clause 4.3 (Article 4)
11	Volume-I Clause 8.2.2	111/240	Load out point	We understand M/s. IWAI will provide area nearby the site to construct load out jetty. Please confirm	Refer Volume-I Clause 8.2 (Article 8)
13	Volume-I article 10.2.2	117/240	Third party check proof	Do contractor need to appoint third party for verification of design or IWAI is going to appoint	Refer Volume-I article 10 -- YES
14	Volume-I Clause 10.3.2	119/240	Liquidated Damages	Request to revise the the LD @ 0.5% per week.	Tender condition prevail
15	Volume-I Article-13	134/240	variation clause	Please incorporate quantity variation clause, "Unit rates shall be valid for the execution of the entire contract with overall variation of +/-10% of the total contract value of the contract as per the schedule of rate . In case of variation as above, the implication if any shall be mutually agreed upon both the parties. Rates shall be discussed and mutually agreed prior to the execution fo works"	Volume-I Article-13  Tender condition prevail
16	Volume-I Article-13	134/240	variation clause	Please incorporate quantity variation clause, "Unit rates shall be valid for the execution of the entire contract with overall variation of +/-10% of the total contract value of the contract as per the schedule of rate . In case of variation as above, the implication if any shall be mutually agreed upon both the parties. Rates shall be discussed and mutually agreed prior to the execution fo works"	Volume-I Article-13  Tender condition prevail
17	Volume-I Clause 19.2	146/240	Berthing charges	Request to please provide advance payment of 10% against BG toward mob cost and Cash flow purpose.	Tender conditions prevail.

18	Volume-I Clause 19.5	148/240	Monthly Payment	When will the payment release after submission?	Refer Volume-I Clause 19.5 (Article 19)
19	Volume-I Article-20	154/240	Insurances	please mentioned / elaborate what all insurances IWAI expects the contractor to take before start of work.	Refer Volume-I Schedule P Refer Volume-I Article 20
20	Volume-I Article-21	158/240	Force Majeure	Please add pandemic act in Force Majeure clause.	<b>Tender conditions prevail</b>
21	Performance Security SCC 7.1.0 Special / Particular Conditions of Contract	176/240	(i) The Performance Security amount is 8.5 percent of the Contract Amount plus additional security for unbalanced bids ( if any) to be decided during evaluation of bids and informed to Bidders at the time of Pre-award discussions. (ii) Environmental, Social, Health and Safety (ESHS) Performance Security amount is 1.5 Percent of Contract Amount	With reference to Government Circular No. F.9/4/2020-PPD, Bidder requests Employer to reduce the performance security to 3% of CV	No Change To be examined at IWAI shall revert back
22	Mobilization advance 19.2.1 Special / Particular Conditions of Contract	178/240	The Advance Payment shall be made in two instalments.	To have adequate cash flow of the project, Bidder requests Employer to provide mobilization advance in single instalment against signing of contract.	NO - Change Tender Condition Prevails
23	Advance bank guarantee format Schedule G	202/240	-	Bidder requests Employer to add the following sentence in the advance bank guarantee format "The Value of the Bank Guarantee shall be reduced proportionally Once in Three months on receiving a written request from the company confirming the amount of reduction and the remaining amount for which the guarantee will continue."	NO - Change Tender Condition Prevails
24	Volume-I schedule-J	224/240	Intermediate mile stone	Are there any intermediate milestone for the project. If yes please specify.	Refer Volume-I Schedule J
25	Volume-I Article-20	236/240	Insurances	please mentioned / elaborate what all insurances IWAI expects the contractor to take before start of work.	Refer Volume-I Schedule P Refer Volume-I Article 20
<b>TECHNICAL- CIVIL</b>					
1	Geotechnical Investigation Report Appendix A Volume 2 TECHNICAL SPECIFICATIONS AND DRAWINGS	-	Geotechnical Investigation Report	Bidder requests Employer to provide Geotechnical Investigation Report.	will be Provided / uploaded along with the Clarification
2	Wave height Cl. 1.2 Volume 2 TECHNICAL SPECIFICATIONS AND DRAWINGS	-	Hydrographic information	Bidder requests employer to provide the wave height which to be considered in design during operation and storm conditions.	Tide / Waves are not the Phenomenon in the River Ganga, Vertical fluctuation will be there.
3	Expansion Joint - DWG: KGT-1005	-	Shape of Expansion Joint	Whether contractor needs to follow the same type of expansion shown in the drawing KGT-1005 or Employer can provide straight line of expansion joint? Bidder requests employer to clarify.	These are indicative details, the successful EPC contractor shall submit & provide their design

4	Dredging Cl 1.3 Volume 2_TECHNICAL SPECIFICATIONS AND DRAWINGS	-	Employer requirements: Dredging scope	Bidder understands that, Dredging is not in the scope of Contractor as it is not mentioned in Employer's requirements.	Dredging is not under the scope of this tender / Contract, however the EPC contractor has to clear the construction debris left in the river during the construction.
5	Boundary wall - DWG: KGT-1005	-	barrigade/fencing for Vehicle movement	As per Boundary wall layout there are no protection/barrigade shown in between slope protection and road on riverside boundary. Is there any barrigation/fencing required to avoid the vehicle movement? Bidder requests employer to confirm the same.	EPC Contractor, has to provide the complete design for whole of the Terminal. To avoid movement of un-authorized vehicles & personnel during the construction necessary safe guards shall be provided by the contractor
6	Navigational Aids Cl 1.3 Volume 2_TECHNICAL SPECIFICATIONS AND DRAWINGS	-	Employer requirements: Navigational scope.	Bidder understands that navigational aids are not under the scope of contractor as it is not mentioned in employer's requirement.	Not in the scope of this tender
7	Discharge at propped location cl.2.1.5 Volume 2_TECHNICAL SPECIFICATIONS AND DRAWINGS	-	Discharge of 30,000 cum/s shall be considered.	Please confirm, whether the given discharge of 30,000 cum/s is of the main stream of Ganga river or for the channel where the proposed terminal is located.	The Data provided is for main stream of River Ganga , Which may shift as per prevailing morphological conditions, including at the proposed Terminal Location.
8	Bearing Pad - DWG: KGT-1006	56 of 291	Bearing Pad	As per Drawing, bearing is shown in expansion joint location. Bidder wants to make the 125m as single span. Bidder requires employer to confirm the same.  And bearing maintenance will require some additional arrangement, contractor shall proceed expansion joint without bearing pad? please confirm.	Being an EPC Contract , Successful bidder shall provide their design
9	Bunkering cl.1.3.3 Volume 2_TECHNICAL SPECIFICATIONS AND DRAWINGS	-	Utility trench, Bunker supply, cable	As Bunkering utility requires to be provided in Jetty, bidder request employer to provide supporting details of the same over Approach and Jetty. Is there any requirement of trench in transverse direction? Bukering pipe loads shall be provided for design purpose.	Utility trenches shall run all along the berth  yes  Being an EPC Contract , Successful bidder shall provide their design

10	Mobile Harbour crane - DWG: KGT-1006	-	<b>14m C/L of Crane Rail</b>	Bidder request employer to confirm the type of crane to be used (rail mounted or tyre mounted) as it is mentioned 14m C/L of rails in Drawing KGT-1006 and in Document same is shown as MHC with tyre& Pad type (Cl.1.3.3, volume 2).	Tyre mounted ( MHC) Mobile Harbour Crane is Envisaged
11	Bunkering cl.1.3.3 Volume 2_TECHNICAL SPECIFICATIONS AND DRAWINGS			As per clause No. 1.3.3 of Volume 2 (Technical Specifications and Drawings), 'the cranes and other equipment are proposed to be tyre mounted and therefore, no provision has been made for mobilization of crane mounted on rails on the jetty', appears to be contradicting with the provision of crane rail (14000 C/c) as depicted in section A-A of drawing no. KGT-1006 and KGT-1007 of Kalughat tender drawings. Please clarify.	Tyre mounted ( MHC) Mobile Harbour Crane is Envisaged
12	Arrangement for Personnel from berth to Vessel. cl.1.3.3 Volume 2_TECHNICAL SPECIFICATIONS AND DRAWINGS		The satisfactory arrangement for transferring personnel from berth to Vessel is in the scope of the Contractor.	Bidder requests employer to share the location and arrangement of the personnel transferring set up required in Jetty.	Being an EPC Contract , Successful bidder shall provide their design
<b>MECHANICAL</b>					
1	Substation building Cl.1.3.6 Vol-2 Technical spec	15/291	Size requirement	As per technical specific electrical substation is given as two storey building with 900m2 built up area. However as per layout KGT-1015-Rev-1 it is shown as single storey building of size 16.5mx22.0m. Employer to confirm which one to follow.	Foundations of the building shall be designed to enable provision of additional floor at later date.
2	Stockyard development Cl.1.3.5 Vol-2 Technical spec	15/291	Paving	Stock yard is required to facilitate 4 fully loaded containers plus 1 empty container stacking load. It will be also subjected to crane movement for unloading the container. As per layout KGT-1008-Rev-5 100mm Paving block provide over granulated sub base. It will be subjected to settlement during repeated movement of trucks with containers. Employer to confirm whether concrete pavement is required. Also provide us the exact area / Autocad drawing.	Being an EPC Contract , Successful bidder shall provide their design  Layout to be proposed with suitable pavements
3	Vehicle parking area Cl.1.3.8 Vol-2 Technical spec	15/291	Paving	As per technical specifications "The Contractor shall plan, design and construct suitable paved area for vehicle parking as shown in Drawing I-525/KGT/1001". Employer to confirm whether concrete pavement is required as it will be subjected to repeated truck movement or 100mm Paving block provide over granulated sub base as per drawing to be followed. Also provide us the exact area / Autocad drawing.	Being an EPC Contract , Successful bidder shall provide their design  Parking area with Paver blocks of sufficient strength to be ensured.
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4	Cl.2.1.4.1.2 Vol-2 Technical spec	27/291	Nature of Stacking	As per clause no. 2.1.4.1.2 of Technical specification , stacking load due to 20ft or 40ft length stacked as group up to 2 high and 2 across need to be considered.	Stacking shall be as per 2.1.4.1.2 and 1.3.5 Layout to be proposed with sufficient strength accordingly..

5	Buildings Cl.2.1.14.1 Vol-2 Technical spec	31/291	Height of Finished floor level from Finished Ground level	Bidder request employer to confirm as per specifications F.F.L of buildings shall be 1000mm above F.G.L. However corresponding buildings layout shows 500mm from FFL to FGL	FFL shall be provided minimum of 500 mm above FGL
6	Scope of work Cl.4.21.4.4.1 Vol-2 Technical spec	194/291	Dust suppression system	As per specifications "Treated water should be used for horticulture purpose at the site and dust suppression purpose." Employer to confirm whether dust suppression system will be in the scope of work which is not shown in layout.	Dust suppression system is not envisaged. If required as per design of EPC Contractor same should be provided.
7	Water supply system Cl.1.3.9 Vol-2 Technical spec	17/291	Source of water	As per technical specifications "The source of water supply shall be either State Govt. water supply or bore well of terminal area." which includes for potable water to buildings, bunkering to vessels. Employer to confirm whether for fire fighting system/Dust suppression system water can be extracted from river.	No - water can be extracted from River Ganga without obtaining the permission from the concerned / competent Authority. Seeking any such permission shall be in the scope of the EPC Contractor,
8	Cable route layout - I-525-KGT-1022-Rev-2	-	Cable trenches	Employer to confirm whether outside cable trenches as mentioned in layout will be of brick or RCC.	All cable trenches as shall be of RCC.
9	Sewerage system Cl.2.1.17 Vol-2 Technical spec	36/291	Sewerage system disposal to buildings	As per technical specification" The pipelines of suitable size shall be laid for collection of the sewage from the buildings to a septic tank followed by soak pit." But as per EMP All terminals shall be designed with zero waste discharge concepts". Kindly confirm the septic tank & soak pit requirement.	During construction, temporary toilets septic tank and soak pits as per specifications shall be provided.  As per contract STP - Sewage Treatment Plant shall be provided.
10	Impact on climate 2.1 EMP	43/291	Impact on climate-Terminal building energy efficient	Bidder request Employer to confirm whether all the buildings in the terminal should have a Platinum rating for Green Building provisions & GRIHA guidelines shall be adopted for Terminal design	All the terminal Buildings should be GRIHA Compliant as per requirement.
11	Scope of work 5.3 EMP	48/291	collection pond Treatment plant requirement	As per EMP "Storm water shall be retained in pond so as to allow the settling of dust and suspended particles in the water, this water should be used for horticulture, cleaning and dust suppression." Bidder to confirm whether the storm water had to be treated in pond and discharged in to river as runoff will be more.	Only the overflow may be discharge in the river after meeting the laid down standards
12	Scope of work 5.3 EMP	48/291	Dump pond requirement	As per EMP "Sludge from the dump pond shall be sent for disposal along with other municipal waste." Employer to confirm whether any dump pond with treatment facilities required apart from collection pond for disposing storm water.	This is a EMP – provision in case the utility is provided, then all these precautions shall be enforceable. In case same is in the scope of construction then need to be provided

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13	Project Brief EMP	3/291	Storage shed.	Onshore facilities includes: Storage area -14900 sq m, Unloading & Loading Areas, Terminal building admin building, storage shed,etc. Employer to confirm whether any covered storage shed is required which is not shown in layout	The Terminal is for Container Traffic, hence Covered storage is not envisaged.
<b>ELECTRICAL &amp; INSTRUMENTATION</b>					
1	DRG. No KGT-1024, POWER SINGLE LINE DIAGRAM - Electrical	-	Single line diagram	MLDB and ACDB shall be provided with Dry type transformer inside the panel. Due to transformer large size and heat dissipation transformer can be kept outside without enclosures recommended for MLDB by IWAI. Kindly confirm.	The Provisions in the SLD – Single Line Diagrams are indicative. Being a EPC Contract Successful Bidder shall provide their design as per Codal Provisions
2	DRG. No KGT-1024, POWER SINGLE LINE DIAGRAM - Electrical	-	Single line diagram/Substation equipment layout.	Kindly furnish capacitor bank details.	
3	DRG. No KGT-1024, POWER SINGLE LINE DIAGRAM Electrical	-	-	Kindly specify the details of bus bar at HT panel.	
4	DRG. No KGT-1024, POWER SINGLE LINE DIAGRAM - Electrical	-	SLD	Note 13 " In MLDB and PDB space for 32A and 63A MCCB respectively shall be provided for fixing of components during phase- 2" Kindly clarify what does space requirements indicate. Whether it refers to spare feeder, space inside panel, space outside panel.	
5	DRG. No KGT-1024, POWER SINGLE LINE DIAGRAM - Electrical	-	SLD	In Power SLD Incomer-1 and Incomer-2 rating is 1000 A ACB . Why Bus coupler rating is considered as 1250A. Kindly clarify.	
6	DRG. No KGT-1024, POWER SINGLE LINE DIAGRAM - Electrical	-	SLD	1)The interlock between DG and AMF shall be routed through transformer. Kindly clarify. 2) Kindly provide the details of load which shall feed through DG set.	
7	DRG. No KGT-1024, POWER SINGLE LINE DIAGRAM - Electrical	-	SLD	As per SLD DG set has been shown in LT PCC panel. whereas as per specification clause 5.1.6 page no 234 of 291 20% High Mast Lighting shall feed from DG supply. This is possible only when separate incomer to MLDB shall be provided. Kindly clarify.	
Sl no	Document Ref - Clause	Page	Description	Query	IWAI Response
8	DRG. No KGT-1024, POWER SINGLE LINE DIAGRAM - Electrical	-	SLD/Substation equipment layout	" The contractor shall procure the equipment for phase 1 only and provision shall be made for phase 2". Whether this point refers to spare feeder, space inside the panel(if so,	Only provision is to be made for phase-2 expansion.

				kindly furnish the dimension) separate substation building. Kindly clarify.	
9	Drg. No KGT-1015, SUB STATION EQUIPMENT LAYOUT - Electrical	-	SLD	1) In substation equipment layout DG size is mention as 250 KVA whereas in SLD same is mention as 175 KVA. Kindly clarify which shall be followed. 2) Kindly clarify the basis for selection for DG size.	The Provisions in the SLD – Single Line Diagrams are indicative. Being a EPC Contract Successful Bidder shall provide their design as per Codal Provisions
10	Drg. No KGT-1015, SUB STATION EQUIPMENT LAYOUT - Electrical	-	SLD/Substation equipment layout	In substation equipment layout capacitor bank is described as " APFCR panel HT" where as in SLD capacitor bank is considered in LT PCC. Kindly clarify which shall be followed .	
11	Drg. No KGT-1015, SUB STATION EQUIPMENT LAYOUT - Electrical	-	-	1)Kindly clarify term "UPPCL". 2) Kindly Locate, Battery room for UPS, DC battery system, welding transformer, and lighting transformer.	BSPHCL shall be considered instead of UPPCL Battery room shall be provided in Grid 3-4/A-B. Welding transformer and lighting transformer being of small size and shall be accommodated in SS.
12	Drg. No KGT-1015, SUB STATION EQUIPMENT LAYOUT - Electrical	-	Substation equipment layout	As per substation equipment layout Location of DG is shown outside. Kindly clarify as the DG set are outdoor.	DG set shall be suitable for outdoor installation.
13	Drg. No KGT-1015, SUB STATION EQUIPMENT LAYOUT - Electrical	-	Substation equipment layout	Kindly clarify requirement of APFC at HT as per Substation equipment layout.	The Provisions in the SLD – Single Line Diagrams are indicative. Being a EPC Contract Successful Bidder shall provide their design as per Codal Provisions
14	Drg. No KGT-1015, SUB STATION EQUIPMENT LAYOUT - Electrical	-	Substation equipment layout	Kindly clarify requirement of toilets in substation building.	Minimum One Toilet shall be provided in the Sub station Building



15	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.14.2 Electrical	18 of 291	Detailed Electrical Scope of Work	<p>Bidder understating:  (a) Double Pole Structure at Kalughat project site will be supplied, installations, tested and commissioned by M/s. BSPHCL- Kindly confirm?  (b) 11 kV cable from Double Pole Structure to Metering cubicle will be supplied, installations, tested and commissioned by/s. BSPHCL- Kindly confirm?  (c) Bidder understating Metering cubicle will be installed, inside the substation building- Kindly confirm?  (d) 11 kV cable from Metering cubicle to 11 kV switchgear incomer shall be supplied, installations, cable testing and commissioning by bidder scope- Kindly confirm?  (e) IWAI to confirm, distance from metering cubicle to new 11kV substation Incomer feeder (these distance is required bidder to calculate the 11kV cable length)? Kindly confirm above points?</p>	<p>a) Noted. Necessary charges &amp; document submission shall be in contractor scope  b) Noted. Necessary charges &amp; document submission shall be in contractor scope  c) Same shall be confirmed by BSHPL.  D) Noted &amp; Confirmed  e) The Provisions in the SLD – Single Line Diagrams are indicative... will be measured as per actual drawings suggested by the Bidders.</p>
16	Volume-II - Scope of work	9/291	Electrical and mech works	please provide details of electrical and mechanical works which needs to be done	Refer Volume-II - Scope of work and specifications
17	Volume-II Clause 1.2.2	9/291	Access to site	who shall prepare the access road to site? How many km needs to be prepare?	Refer Volume-II Clause 1.2.2
18	Volume-II Clause 1.2.2	10/291	Site setup area	please indicate tentative area for site setup on google map	Refer Volume-II Clause 1.2.2
19	Volume-II Clause 1.2.3.4	12/291	Tidal Chart	Provide tidal chart for the year to under the tidal variation duration?	Refer Volume-II Clause 1.2.3.4
20	Volume-II Clause 1.2.3.8	13/291	Rock layer @ founding level	is there any pervious experience with rock layer. Is there any rock socket required???	Refer Volume-II Clause 1.2.3.8
21	Volume-II Clause Refer 1.2.3.8	13/291	Filling for backup area	Does the backup area falls in intertidal zone?	Tide / Waves are not the Phenomenon in the River Ganga, Vertical fluctuation will be there
22	Clause 1.3.3	14/291	Co-ordinates	Please provide the co-ordinates for all structures (Main Jetty, approach Jetty, Backup area development) Layout, coordinates	Refer Volume-II Clause 1.3.3

23	Volume-II Clause 1.3.15	24/291	Model studies	what Model studies do client expect contractor to perform. Please explain	Refer Volume-II Clause 1.3.15
24	Volume-II Clause 2.1.4.1.5	27 / 291 14 /291	Bollards and fenders	What is the design capacity of the bollard and fenders?	Refer Volume-II Clause 2.1.4.1.3 & Refer 2.1.4.1.4 & 2.1.4.1.5
25			Precast Lifting & Stacking	How many days after casting of precast units we can lift and erect the precast elements of jetty	This should be as per relevant IS code ; Being an EPC Contract , Successful bidder shall provide their design
26	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.14.2 Electrical	19 of 291	Detailed scope of electrical works	As per specification 4 Nos outgoing feeder for HT switchgear is shown where as in SLD only three nos. is shown. Kindly clarify the requirement of 4th feeder and also, spare feeder for 11KV switchgear has been considered as per SLD kindly clarify.	The Provisions in the SLD – Single Line Diagrams are indicative. Being a EPC Contract Successful Bidder shall provide their design as per Codal Provisions
27	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.14.2 Electrical	19 of 291	Detailed scope of electrical works	Feeder of pump house is not reflected in SLD. Kindly clarify.	
28	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.14.2 Electrical	20 of 291	Detailed scope of electrical works	Page no 20 of 291 it is mention as industrial power socket 240 V 15 A is required whereas on page no 236 of 291 Industrial type receptacles 240V 20 Amp shall be provided. Kindly clarify which shall be followed.	
29	Volume-2TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.14.2 Electrical	20 of 291	Detailed scope of electrical works	Cover shed not shown in layout however, it is reflected in point no. 9. Kindly clarify.	
30	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.14.2 Electrical	18 of 291	Detailed Electrical Scope of Work	1)In substation equipment layout " Metering panel from UPPCL" whereas same is mention as "BSPHCL" in specification. 2) In SLD Incomer from "UPPCL" where as per specification same is mention as BSPHCL Kindly clarify which one shall be followed.	
31	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.14.2 Electrical	20 of 291	Detailed Electrical Scope of Work	As the terminal admin building including control room shall be provided with centralized AC to ensure maximum temperature of 27 degree C.Kindly ensure there is no other requirement of centralized/split ac at any other location	No centralised Air Conditioning is required other than TAB – (Terminal Administrative Building)
32	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.1.4	209 of 291	Circuit Breaker	"Short circuit withstand/interrupting capacity shall be 4026.3kA".Kindly clarify.	Kindly ignore. Not Applicable in our applications

	Electrical				
33	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 2.2.8 Electrical	49 of 291	Permissible Voltage drop in Cables	On page no 49 of 291 voltage drop details is mention as Starting Voltage drop of Motor: 15% Running Voltage drop of Motor: 3% where as on Page no. 232 of 291 voltage drop details is mention as Steady state Voltage drop (Continuous running condition): 2.5% Transient state voltage drop (During Motor Starting): 10 % Kindly clarify.	As per OEM's recommendation's  Tender Conditions Prevails
34	Volume-II Clause 3.1.5	52/291	Permits	1) Please mentions what all permits are required to be taken by the contractor and from which authority? 2) please confirm whether owner taken Environmental Clearance for the work? 3) Is there any additional permit required to be taken from any Government authority?	Refer Volume-II Clause 3.1.5 Refer Volume-II Clause Refer 3.3 Refer Volume-I Clause 4.3 (Article 4)
35	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 2.2.8 Electrical	18 of 291	Permissible frequency variation	On page no 49 of 291 frequency variation is mention as 50 Hz + 3%, whereas on 235 of 291 it is mention as +3% to -5%. Kindly clarify.	Kindly follow +3% to -5%
36	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.3.1 Electrical	221 of 291	Main Lighting Distribution Board (MLDB) / Power Distribution Board (PDB)/SLD	per specification MLDB & ACDB shall be provided with one TPN MCCB for incomer feeder and required number of 3phase outgoing feeders with TPN MCB's. whereas in SLD some outgoing feeders MCB and Some are MCCB. Kindly clarify.	The Provisions in the SLD – Single Line Diagrams are indicative.  Being a EPC Contract Successful Bidder shall provide their design as per Codal Provisions
37	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.3.1 Electrical	220 of 291	Main Lighting Distribution Board (MLDB) / Power Distribution Board (PDB)	In MLDB and PDB the outgoing feeder are MCB Hence, RS 485 communication protocol is not applicable. Kindly clarify.	
38	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.6 Electrical	15 of 291	Buildings	As per specification substation building shall be 2 storey However, in electrical substation layout it is shown as one storey. Kindly clarify.	Foundations of the building shall be designed to enable provision of additional floor at later date.
39	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 1.3.6	15 of 291	Buildings	Kindly advise the control room for CCTV operation	Part of TAB , can be used as CCTV Room.

	Electrical				
40	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 2.2.5 Electrical	42 of 291	Earthing	Earthing shall be followed as per IS 3043 however, in case earth resistivity is not achieved less than 1 ohm in that case only chemical earthing as per IEC 80-2000 shall be followed. Kindly clarify.	Installation of earthing shall be as per IS 3043 only.
41	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 2.2.6 Electrical	47 of 291	Lighting system	Street light has not been envisaged where as per EMP page no.44 street lighting shall be provided. Kindly clarify	Area to be illuminated and minimum Lux level of 20 is to be maintained. Internal road & Area illumination shall be covered by High Mast. Lux level shall be followed as per specifications.
42	Volume-II Clause 4.1.4.4	67/291	Filling for backup area	Do you envisage any filling in the backup area. Please provide specification of fill material	Refer Volume-II Clause 4.1.4.4
43	Volume-II Clause 4.2.16.3	89 / 291	Load test	we understand initial load test needs to be conducted on land mode. Please confirm	Refer Volume-II Clause 4.2.16
44	Volume-II Clause 4.2.16.3 & 4.3.2.12	89/291 & 102/291	Application of load	Do the contractor has to perform load test and how many no?	Refer Volume-II Clause 4.2.16.3 & 4.3.2.12
45	Volume-II Clause 4.2.16.3	89 / 291	Load test	we understand initial load test needs to be conducted on land mode. Please confirm	Refer Volume-II Clause 4.2.16
46	Volume-II Clause 4.2.16.3 & 4.3.2.12	89/291 & 102/291	Application of load	Do the contractor has to perform load test and how many no?	Refer Volume-II Clause 4.2.16.3 & 4.3.2.12
47	Volume-II Clause 4.2.20.11	96/291	Lifting Hook for Precast	What need to use for Lifting Hooks for precast M.S rounds or TMT rebar – Please clarify	Refer Volume-II Clause 4.2.20.11
48	Volume-II Clause 4.3.2.3	99/291	Muck Disposal	where the muck removed from the bore holes of piles to be deposit? on water or elsewhere?	Refer Volume-II Clause 4.3.2.3

				And if not at pile location, what is the distance from the proposed location.	
49	Volume-II Clause 4.3.2.3	99 /291	Disposal	Where will the muck from piling operation needs to be disposed? In sea or transport it on land and dispose it? Is the disposal area already identified by client?	Refer Volume-II Clause 4.3.2.3
50	Volume-II Clause 4.4.1	105/291	Area clearance	Please indicate whether the site area and backup area is covered with trees and mangroves?	Refer Volume-II Clause 4.4.1
51	Volume-II Clause 4.4.1	105/291	Mangroves trees	Please confirm whether IWAI has taken necessary permission from Govt. for removal of Mangrove trees, if any	Refer Volume-II Clause 4.4.1
52	Volume-II Clause 4.7.9	127/291	Stone Removal	Is there any revetment stone/ boulder present along the shore line? Please confirm	Refer Volume-II Clause 4.7.9
53	Clause 4.10	137/291	Silent feature of the proposed Backup	What is the load intensity for backup yard?	Refer Volume-II Clause 4.10
54	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 4.24.12 Electrical	208 of 291	Information Technology Systems	As the plant is conventional type SCADA system not required as per specification however, IT system shall be capable only for the weigh bridge and container storage facility. Henceforth, Kindly furnish exact requirement of IT system.	IT requirements are Suggestive / indicative.  Being a EPC Contract Successful Bidder shall provide their design for IT system requirements for whole of the Terminal.
55	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.1.17 Electrical	207 of 291	Spare list	Only list for commissioning and successful running for 2 years shall be submitted. Kindly confirm.	OEM recommended, Commissioning spares shall be provided along with transformer and For successful running for 2 years - List of spares shall be submitted along with OEM's price list.

56	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.2.2 Electrical	216 of 291	Core	The flux density in core shall not exceed 1.6 Tesla whereas in clause 5.1.2 it is 1.9 tesla. kindly clarify	The Maximum flux density shall be 1.6 Tesla
57	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.2.4 Electrical	216 of 291	Bushing	AS per OEM manufacturer recommendation porcelain bushing is outdated, same shall be provided by epoxy. Kindly confirm	As per OEM's recommendation's
58	Volume-2TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.3.1 Electrical	221 of 291	MLDB	MLDB and ACDB shall be provided with TPN MCCB for Incomer feeder and required no. of outgoing feeder with TPN MCB Hence, LDB, PDB and CDB shall be provided with 1 No. TPN MCB with ELCB incomer and required no of 32 A outgoing feeder. Henceforth for the MCB the handle of incomer switch shall be provided on door of board with mounting facility in both On and OFF position, However as per OEM manufacturer recommendation For MCB incomer cannot be applicable with operating handle. kindly clarify.	As per OEM's recommendation's  However, All MCBs in MLDB and ACDB shall be operated from front without opening the door.
59	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.4.1 Electrical	229 of 291	Construction of Battery	Following point is not applicable for VRLA battery. Kindly confirm Syringe type Hydrometer-2 Nos per Battery Thermometer with specific gravity correction scale-2 Nos per Battery Acid resistant funnel-2 Nos per Battery Acid resistant jug.-2 Nos per Battery Rubber apron and gloves-2 Nos per Battery	As per OEM's recommendation's However, a Minimum of accessories to be provided for VRLA battery Thermometer - 2 Nos. per battery Rubber gloves - 2 Nos. per battery
60	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.4.1 Electrical	230 of 291	Construction of Battery	Following spare list will not be applicable for VRLA battery Battery stand insulators-02 Nos. Cell insulators-02 Nos. Vent plugs-10 Nos.	As per OEM's recommendation's However, a Minimum of Following spares shall be applicable for VRLA battery, Battery stand insulators-02 Nos. Cell insulators-02 Nos.
61	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.4.1 Electrical	229 of 291	Construction of Battery	For VRLA battery ,rack shall be made up of MS rack only instead of wooden rack .As wooden rack are not applicable for VRLA batteries .as per OEM recommendation.	As per OEM's recommendation's

62	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.6 Electrical	234 of 291	Lighting system	Utilization factor for lighting of substation building shall be utilization factor = 70% ceiling,50% wall, 10% floor. Kindly confirm.	Should be as per Codal Practice
63	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.6 Electrical	236 of 291	Lighting system	Kindly provide the enclosure material for 63 A welding receptacles.	Should be as per Codal Practice
64	Volume-2TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.6 Electrical	236 of 291	Lighting system	For terminal admin building concealed type with conduit however, for worker amenity building, substation, security office weigh bridge and security office, toilet block are provided with open type wired. Kindly confirm.	Noted and confirmed
65	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.9.10 Electrical	248 of 291	DG set	An annunciation will be provided in annunciation panel to indicate following faults instead of seperate indicating lamps 1)start failure (Engine fails to start) 2) Generator over current 3) Earth fault 4) Low fuel level 5)High fuel level 6) Generator winding temperature high 7) high bearing temperature	Noted for annunciation panel.  However all the fault indication shall be as per codal practice and covered as per specification.
66	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.9.10 Electrical	248 of 291	DG set	The following protections are in built with DG controller in addition to annunciator panel instead of individual protection. 1) Generator high voltage 2) Generator low voltage 3) High engine speed 4) Low engine speed	Noted for DG controller.  However all the However all protection shall be as per codal practice and covered as per specification.
67	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 5.1.12.2 Electrical	261 of 291	CCTV	IP-67 and Optical zoom36 X cannot be provided as per Honeywell and Bosch Make. Kindly suggest Degree of protection and optical zoom if we are going with Honeywell and Bosch.	Tender Condition Prevails. Being a EPC Contract Successful Bidder shall provide their design for CCTV System
68	Volume-2 TECHNICAL SPECIFICATIONS AND DRAWINGS 6.2.2	264 of 291	Mobile harbour crane	As per specification Mobile harbour crane shall be equipped with a diesel engine as a prime mover for crane operation and travelling.	"No" Mobile Harbour Cranes is envisaged.

	MATERIAL HANDLING SYSTEM/ EQUIPMENTS			Mobile harbour crane shall operated only through Diesel. Kindly confirm	
69	Volume-II Clause 6.2.1	264/291	Crane erection	Is erection of Crane on berth is on contractor scope. Please confirm.	As on date No Mechanical Equipment is envisaged.
70	Appendix - A ( Volume II Technical Spec & Drawing	289/291	Geotechnical Investigation Report	As Geotechnical investigation report is not available in the tender document, request you for providing Geotechnical Investigation report	Being uploaded along with the Clarification
71	Appendix - B( Volume II Technical Spec & Drawing	290 /291	Environmental Management Plan	As Environmental Management Plan is not available in the tender document, request you for providing Environmental Management Plan	Being uploaded along with the Clarification
72	Appendix - C ( Volume II Technical Spec & Drawing	291 /291	Form of Performance Guarantee for Anti-Termite Treatment	As Form of Performance Guarantee for Anti-Termite Treatment is not available in the tender document,	Being uploaded along with the Clarification
<b>General requirements - Electrical</b>					
73	General requirements - Electrical	-	-	As per specification SCADA is not envisaged hence, PLC is not considered. Kindly clarify.	The requirements are Suggestive / indicative. Being a EPC Contract Successful Bidder shall provide their design for IT system requirements for whole of the Terminal.
74	General requirements - Electrical	-	-	Boundary wall lighting has not been envisaged. Kindly confirm.	Kindly refer volume-II clause 5.1.7
75	General requirements - Electrical	-	-	Approach road lighting for buildings has not been envisaged. It will be covered by High mast lighting. Kindly confirm	Kindly refer volume-II clause 5.1.7
76	General requirements - Electrical	-	-	Kindly clarify requirement of UPS for CCTV. As CCTV require uninterruptable power supply.	Being a EPC Contract Successful Bidder shall provide their design for uninterruptable CCTV System
77	General requirements - Electrical	-	-	Berth lighting shall be covered only by High mast. Kindly confirm.	Kindly refer volume-II clause 5.1.7
78	General requirements - Electrical	-	-	We do not envisaged any power supply outside plant for barges / vessels. kindly confirm.	Barge & Vessels are to be provided with Shore Connection. Accordingly the Load factor to be considered & provided.



79			Byth and bore hole details	Please share marine and land boreholes and bathymetric chart of the proposed jetty location	Refer Tender drawings
80			Estimated cost	What is the revised tender estimate. Please provide	<b>The tender is for EPC Contract</b>
81			consultants	please provide names of consultants.	M/s Howe Engineering Projects ( India) Private Limited are The FEED – front end engineering design consultants and Design Consultants
82			Tender type	we understand the only berth is on EPC basis or entire scope is on EPC basis. please confirm	The whole of terminal Construction of Inter-modal IWT Terminal at Kalughat, Bihar is to be completed on EPC Contract.
83			Concrete	fly ash can be used partial replacement with cement material. If so how much percentage can be replaced. - Please confirm	Being an EPC Contract , Successful bidder shall provide their design.
84			Concrete	Is there any specific admixture / accelerator to be used for concrete exposed to marine water. Please provide admixture brand to be used.	Being an EPC Contract , Successful bidder shall provide their design & makes
85			Plan & sections of back up yard with material	Please provide us the typical cross section of back up yard with material (coal, coke, salt & cement) for checking the stability?	
86			Piling	How much is the concrete overcast in the piles?	
87	EMP	As per 71 & 87	Environmental Management Plan (EMP)	what is Environmental Management Plan (EMP). Please elaborate	EMP is attached
88	Geo Tech Investigation	As per 70 of Civil			Geo tech Report – attached
89	Anti-Termite	As per 72 of Civil			Format for Anti Termite treatment guarantee certificate.

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