

Invitation for Bids NO. IFB No: [CPC/JICA/ICB/07/16-17/]
Reference Identification No: [OPTCL/JICA/PKG-7] Loan Agreement No: [ID-P245]

NAME OF PROJECT: Procurement of 220/132KV AIS S/S & 220 kV & 132kV DC Transmission Lines at Kiakata, 220/33kV AIS S/S & 220kV DC Lines at Daspalla in Odisha State of India under Package-7.				
NAME OF CLIENT:- ODISHA POWER TRANSMISSION CORPORATION LIMITED, Bhubaneswar				
REPLY TO ADDITIONAL QUERIES RECEIVED FROM FIRMS				
Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
I	COMMERCIAL			
1	Vol-I, Section-VII, General conditions	Clause number 14, Taxes & Duties	We understand that 1% BOCW cess shall be applicable only on the Civil & Installation works. Please confirm.	1% BOCW cess shall be applicable on both material and Civil & Installation works
2	Bid Price Schedules	Schedule No. 8. Details of Taxes & Duties	As per the schedule, the bifurcation of various taxes to be provided as per the schedule-2, whereas in the schedule-2 there is no scope to specify the relevant taxes separately. Therefore request you to modify the price schedule to indicate the taxes separately.	Pl. mention the details of Taxes & Duties in Schedule No. 8. attached to BOQ.
3	Vol-I, Section-VII, General conditions & Bid Price Schedules	Clause number 14, Taxes & Duties	As per the referred clause, statutory variations in the taxes shall be adjusted during execution of the project. However, as per the bid price schedule, there is no provision available to indicate the applicable duties & taxes separately so that equitable adjustment in the contract price can be done during execution. Kindly confirm & amend the price schedules accordingly	The price of the Plant shall be quoted on an EXW Incoterm basis (such as "ex-works," "ex-factory," "ex-warehouse" or "off-the-shelf," as applicable), and includes sales tax and all other taxes payable in the Employer's country on the Plant, as of twenty-eight (28) days prior to the deadline for submission of Bids, if the Contract is awarded to the Bidder. (Ref. Section-1-18(5)(b)) of the bid document.
4	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 1.2.1 - vii - Quantifiable Deviations and Omissions	As per the referred clause, "The total evaluated prices (Total of the Supply (CIP/EXW) plus Installation & other services including all taxes and duties and all other associated cost and total cost of Mandatory Spares) of all the Bidders, Package wise, shall be compared to determine the lowest evaluated price." We understand that, all the applicable Taxes & Duties for both Bought out items & Direct transaction will be considered for evaluation process. Please confirm	The evaluation method is as specified in Section III, Evaluation and Qualification Criteria.
5	BOQ 220-33KV Dasapalla	Schedule No. 2. Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Transmission Line)	As per item no 6.2, the Flexible copper bond to be supplied for Earth conductor, whereas the scope covers the supply of OPGW only. Kindly confirm the requirement of the item.	Pl quote as per the BOQ
5	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 1.2.1 - ii (a) - Quantifiable Deviations and Omissions	As per the referred clause, "ii. The cost of all quantifiable nonmaterial nonconformities or omissions (minor omissions or missing items) shall be evaluated as follows: (a) To this effect, the Bid Price shall be adjusted for comparison purposes only, to reflect the price of missing or non-conforming item or component, by taking the price equal to highest unit rate quoted for the same item(s) by other bidders. However, if there is only one bid, the rate of that/those missing item(s) as estimated by the employer would be taken and Bid Price shall be adjusted for evaluation and comparison purposes only. In case of award of contract, the successful bidder would be required to supply missing item(s) free of cost and tax liability will be borne by the successful bidder". In this regard, since the complete scope has to be quoted by the Bidders on single responsibility basis, we request you not to add any amount on account of any missing item/ in case any items are not loaded as it may change the competitive position of a bidder due to highest price loading for a missing item. We request to modify the clause as below: "Any material/works not specifically priced by a bidder in BPS, shall be deemed to be included in the price of other material/ works." Please confirm your acceptance & amend the document accordingly	As per tender condition.

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
6	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 1.2.1 - v - Quantifiable Deviations and Omissions	<p>As per the referred clause, "Loss capitalization of the Transformers shall not be considered for evaluation."</p> <p>Since the loss capitalization of transformers are not considered for evaluation of bids, this enables the bidders in proposing low efficiency (Higher loss) Transformers with lower grade raw materials without being penalised for impacting the long run operational cost to OPTCL. Hence, we request you to please consider loss capitalization of Transformers to provide equal platform for bidders proposing relatively better efficiency. Kindly confirm & also provide us the capitalization amount applicable for each kilo - watt of relative loss difference.</p>	<p>The Power transformer shall be supplied confirming to the Technical specification. TS says "Loss figure for the transformers should not exceed as detailed below :- 20MVA, 220/33KV Power Transformer: i) No load losses- 12.00 KW ii) Load (Copper) losses including Auxiliary losses- 65.00KW 160MVA, 220/132 KV Auto Transformer: i) No load losses- 30.00 KW ii) Load (Copper) losses including Auxiliary losses- 205.00KW The transformer losses, guaranteed in the bid are to be supported by design calculations along with documentary evidences."</p>
7	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 1.2.2 (d) - Work, services, facilities, etc., to be provided by the Employer	<p>As per the clause (ii), "Drawings, GTP, Location Details and BOQ available with employer shall be provided for execution of work".</p> <p>However, we are not finding the Drawings, GTP formats in the provided documents. Request you to please provide the drawings for our design working. Also, we understand that, Bidder may submit the GTP in their standard formats. Please confirm</p>	<p>Pl. refer Vol-III Part-II of the Bid document which is exclusively for GTP. Further, GTP of other items are also available in the Technical Specification Vol-III Part-I. Design and drawings are under bidders scope. However, the standard drawings available with OPTCL shall be provided in the event of award of the contract.</p>
8	Vol-II, Technical specification for construction of transmission Line	2.1.2.5 WAY-LEAVE AND TREE CUTTING	<p>All the documents required for application to the statutory authorities must be prepared by the contractor & submission to the employer for Submission of the application towards approval of PTCC, Railway Crossing etc. However, the responsibilities lies with the contractor to get the clearance.</p> <p>We understand that any fees payable for any kind of statutory clearances will be in account of OPTCL.</p>	<p>As per tender condition.</p>
9	Vol-I, Section-IX - Contract Forms	Appendix 2. Price Adjustment	<p>As per the referred clause, we understand that, Price Adjustment (Either up or down) is applicable for all the supply items for substation & transmission line works, Installation, Civil works as per the indices applicable and proposed by the bidder.</p>	<p>Pl. refer Appendix2 of the Bid Document. Price Adjustment: The price is adjustable and the adjustment shall be carried out according to the adjustment formulae indicated in the bid documents.</p>
10	Vol-I, Section-IX - Contract Forms	Appendix 1. Terms and Procedures of Payment	<p>As per the clause 1 (a), "First instalment of advance payment (5%) shall be made on Signing of the Contract agreement & Evidence (Rental agreement with land lord) of establishment of Site Office. AND Second instalment of advance payment (5%) shall be made on Placement of Orders for the major equipment defined in the Employers Requirement"</p> <p>Since the order placement of major equipments takes considerable time including the related approval process, we request you to amend the payment terms as "Total advance payment (10%) shall be made on Signing of the Contract agreement & Evidence (Rental agreement with land lord) of establishment of Site". Such amendment in the payment terms will be helpful in boosting up the initial activities of the project.</p>	<p>As per tender condition.</p>

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
11	Vol-I, Section-IX - Contract Forms	Appendix 1. Terms and Procedures of Payment Appendix 6 - Scope of works & Supply by the Employer	As per the clause 1. a (ii), First instalment of the advance of 5 % shall be paid against evidence (Rental agreement with land lord) of establishment of site office. However, we understand that the contractor can set up their site office within the substation premises to speed up the execution activities, which is the normal industrial practice being followed. Please confirm. Further, the necessity of "Rental agreement with land lord" does not arise in such condition. Hence we request you to delete such requirement for availing the advance amount.	As per tender condition.
12	Vol-I, Section-IX - Contract Forms	Appendix 5. List of Major Items of Plant and Installation Services and List of Approved Subcontractors	The referred appendix indicates the List of Approved Subcontractors. We understand that, Bidders may propose to offer the substation or transmission line equipments/ materials from any other Manufacturer also, in case such manufacturer is meeting the Qualification requirements defined in the bidding documents. Please confirm	As per tender condition.
13	Vol-I, Section-IX - Contract Forms	Appendix 4. Time Schedule	We understand that, Mobilization schedule & construction schedule have to be submitted by the Bidders as per Bidding forms (Page BF-25 & BF-26), separately for Substation works & Transmission line works. But, as per Appendix 4 - Time schedule, line needs to be charged by 17.5 months & handed over by 18 Months and substation testing and pre commissioning needs to be done by 14.5months and charging of substation by 18 months from the effective starting date, whereas the overall completion period is 24 months. Hence, we request you to remove the time completion requirements for each sub activity subject to the condition that, overall completion period of 24 months is met by the successful bidder. Also, please confirm that Mobilization schedule & Construction schedule can be prepared by the Bidders keeping in view of the overall completion period of 24 months.	As per tender condition.
14	Vol-III, Part-II	GTP Formats	We have received GTP formats for various equipments along with the hardcopy of tender documents. In this regard, we request you to accept GTPs in Manufacturer's standard formats & type test reports to the extent made available by Manufacturers during tender stage. The exact technical particulars & Type test reports for offered equipment/ material will be submitted during execution of the project. Please confirm	Pl. refer Vol-III Part-II of the Bid document which is exclusively for GTP. Further, GTP of other items are also available in the Technical Specification Vol-III Part-I.
15	Vol-I, Section-IV - Bidding Forms	Page number 17 - Schedule No. 5, Provisional Sums	As per the referred schedule, "One-half of the Employer's cost estimate of the Dispute Board shall be included in the Provisional Sums". However, we would like to inform you that, we are not familiar with the "Provisional sum" schedule. Kindly confirm the applicability of this schedule for the present tender package.	"Provisional sum" is not applicable for this package.
16	Bid Price Schedule - Kiakata, Boudh, Katapalli	Schedule 2	Location wise Break up of Mandatory spares is not mentioned in the specified price schedule. We request you to please confirm that whether mandatory spares quantities mentioned are for each location or for complete requirement.	Pl quote as per BOQ

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
17	Vol-III - Technical specifications - 20 MVA 220 kV - Power Transformer	Annexures - I to Annexure - IX Page number 72 of 96 to 96 of 96	<p>As per the referred clause, for the power transformers, various documents like "Annexure-I: Schedule of quantity & Delivery, Annexure-II: Maximum flux density & Core weight calculation, Annexure-III: Details of loss calculation, Annexure-IV: Guaranteed Technical Particulars, Annexure-V: Additional schedule of information, Annexure-VI: Check-List towards type test reports, Annexure-VII: Calibration status of testing equipments & Instruments/ meters, Annexure-VIII: List for delivery schedule & Annexure-IX: Abstract of Terms & Conditions",</p> <p>have to be filled up in complete shape by the bidders, failing which the bids are liable for rejection.</p> <p>We understand that, above documents as per annexures are being asked by OPTCL while inviting tenders for procurement of individual equipment directly from manufacturers. However, in this regard we would like to highlight that, present tender being turnkey package for construction of overall substation & transmission lines involving numerous equipments & multiple manufacturers for each equipment/ items, it is very difficult for an EPC contractors to collect all of the documents during tendering stage apart from its own qualification documents. Hence we request you to accept our proposal of submission of only the Manufacturer's standard GTPs along with the Manufacturer's authorization letters during tendering stage & remaining documents shall be submitted during execution stage for all the equipments as applicable, as per tender documents. Undertaking to this effect can be submitted from our end during tendering stage. Please confirm your acceptance</p>	<p>Undertaking needs to be submitted along with the bids confirming the same.</p>

CIVIL

For new Substations- Kiakata & Dasapala

1	General	--	<p>Please furnish the Overall GA Drawing, SLD and Proposed Electrical layout for the following substations: 1. 220/132 kV Kiakata SS (New) 2. 220/33kV Dasapala SS (New)</p>	SLD of the Source Sub-Station and proposed substation attached.
2	General	--	<p>Please confirm whether the land for the following substations has been identified. 1. 220/132 kV Kiakata SS (New) 2. 220/33kV Dasapala SS (New) Request to provide the area of the land along with the global co-ordinates and also furnish the contour layout of the substation area.</p>	Yes.The Bidder is advised to visit and examine the site where the Sub-Station is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract for the provision of Plant and Installation Services. The costs of visiting the site shall be at the Bidder's own expense.
3	General	--	<p>Please furnish the following details for Kiakata & Dasapala substation. 1. Soil investigation report 2. Contour layout showing EGL and details of Proposed FGL 3. High Flood Level. In order to estimate the approx. quantum of civil works.</p>	Bisser's scope
4	Tender specification	--	<p>Please provide following building standard drawings a. Control Room Building for 220/132kV Kiakata SS and 220/33kV Dasapala SS b. 'D' Type Quarters building and 'E' type Quarters building c. Security Shed for 220/132kV Kiakata SS and 220/33kV Dasapala SS d. Pump house and store shed building for 220/132kV Kiakata SS and 220/33kV Dasapala SS The above are required to estimate the quantum of civil works.</p>	Bisser's scope
5	Bid Price schedule, Schedule - 4 (Civil Works)	Kiakata SS S.No. 22 & Dasapala SS S.No. 21	As per the referred item of BPS, the pump house shall be connected to the main road of the switchyard with an approach road. Please confirm whether the approach road for the pump house will be paid as per item no. 22 (Kiakata) & 21 (Dasapala) of BPS (i.e.) along with Pump House or shall be paid item no. 16.3 (Kiakata) & 15.1.3 (Dasapala) of BPS (i.e.) along with road works.	The approach road for the pump house will be paid as per item no. 22 (Kiakata) & 21 (Dasapala) of BPS (i.e.) along with Pump House

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
6	Bid Price schedule, Schedule - 4 (Civil Works)	Kiakata SS S.No. 4 & 19 & Dasapala S.No. 4 & 18	As per the referred item of BPS, we understand that the boundary wall shall be provided along the perimeter of the plot area and the fencing shall be provided around the switchyard area. Please confirm.	YES
7	Volume III, Technical Specification	Civil works, Cl.No. 7	As per the referred clause, it is mentioned that " This final surface course shall be applied in all areas exclusive of roadways and shall extend beyond the fence area as indicated in the drawing " for site surfacing. However in tender document the same drawing is not attached. kindly provide the same.	The drawing shall be finalised during detailed engineering.
8	Volume III, Technical Specification	Civil works, Cl.No. 7	As per the referred clause, it is mentioned that " This final surface course shall be applied in all areas exclusive of roadways and shall extend beyond the fence area as indicated in the drawing " for site surfacing. Kindly confirm whether only the second course (Final course) of gravel filling is to be extended or both the layers of gravel filling is to be extended beyond the fencing. Also please provide the distance upto which the gravel filling has to be extended beyond the fence.	Pl. quote as per the BOQ. The distance upto which the gravel filling has to be extended beyond the fence shall be finalised during detailed engineering.
9	Bid Price schedule, Schedule - 4 (Civil Works)	Kiakata SS Dasapala SS	We presume that piling is not envisaged in the proposed substations. Kindly confirm. If it is envisaged, then the same shall be paid as additional item.	Pl. quote as per the BOQ.
10	Bid Price schedule, schedule 2 (Supply), & Bid Price schedule, schedule 4 (Civil works)	Kiakata SS S.No - 26 & 13 & Dasapala SS S.No -17 & 12	In schedule-2-Supply, Sl no: 26 (Kiakata), Sl no: 17 (Dasapala) Item for GI Cable trays including support GI angle for various cable trench section is given in meter. In schedule-4-Erection(Civil works), Sl no: 13 (Kiakata), Sl no: 12 (Dasapala) item for cable trench is given in meter and mentioned that this also including supply of GI angle for cable trays support. Please clarify, the GI angle required for cable trays support will be paid under supply schedule or Erection schedule(Civil works).	The GI angle required for cable trays support will be paid under supply schedule
11	Bid Price schedule, schedule 2 (Supply), & Bid Price schedule, schedule 4 (Civil works)	Kiakata SS S.No - 26 & 13 & Dasapala SS S.No -17 & 12	In referred Sl nos, item for various cable trench section is given in meters for cable trays and cable trench separately. The quantity mentioned for cable trays & cable trench is not matching. Please clarify.	As Per BOQ
12	Volume III (TS), E7- Switchyard Structure, Page no: 4 of 10 & Bid Price schedule, schedule 2	Dasapala SS Sl.No. 19.4	As per referred clause, lattice type support structure to be provided for 220kV,132kV, 33kV equipment and the equipment structure for 400kV shall be tubular type. In price schedule Sl no: 19.4, Quantity for pipe type structure is given for 220kV,132kV & 33kV equipments. We trust that, as per price schedule all the support structure(220kV,132kV & 33kV) shall be pipe type. Please confirm. If lattice type to be provided, Please include the separate item for the same in price schedule.	Pl. quote as per the BOQ.
13	Bid Price schedule 4 (Civil works)	Kiakata SS Sl no:5 & 6 & Dasapala SS Sl no:5 & 6	We trust that, the unit Qty. given in referred Sl.Nos. (i.e. Excavation, PCC & RCC) is only for tower (Including LM), equipment foundations and any other item not covered elsewhere in BPS. Please confirm.	As Per BOQ
14	Volume II (TS), E6-Civil works, Page no: 54 of 73 & Bid Price schedule 4 (Civil works)	Clause No. 22.0 & Kiakata Sl.No. 21.1, Dasapala Sl.No. 20.1	As per specification the security shed size is 6.5mx3.5mx3.5m. where in price schedule same is given as 5mX3.5mX3.5m . Please clarify, which size is to be followed.	Pl. quote as per the BOQ.

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
15	Volume III (TS), E6-Civil works, Page no: 46 & 48	16.12 & 1.4 a ii)	As per the clause no:16.12, the minimum thickness of external walls shall be 230mm. However as per clause no:1.4 a ii) , it is indicated as " external walls shall be 250mm thick". Please clarify the wall thickness.	external walls shall be 250mm thick.
16	Volume III (TS), E6-Civil works, Page no: 64 of 73 & Bid Price schedule, schedule 4 (Civil works)	III & Civil works	There is a discrepancy between Civil mode of measurement and price schedule. Please clarify whether the civil works will be paid as per price schedule or mode of measurement. If the Civil works shall be paid as per mode of measurement. Please include the following item in the price schedule separately. 1.Reinforcement steel 2.Misc. Structural Steel 3. Stone filling for Transformers.	As Per BOQ
17	Bid Price schedule, 4 (Civil works)	Kiakata SS Sl.No.16 & Sl.No.17 & Dasapala SS Sl.No.15 & Sl.No.16	In the price schedule item for drain is given separately, however in road work it is mentioned that, the road shall have drains on both the side of the road. We presume that drains provided along road shall be paid separately as part of drain. Kindly confirm.	The drains on both the side of the road are an integral part of "road works" and will not be paid separately.
18	Bid Price schedule, 4 (Civil works)	Dasapala SS S.No -15.2.1	As per referred item in the price schedule, we understand that an RCC bridge is required for nallah crossing. So kindly provide the following details of the nallah 1. Width of the nallah 2. Depth of the nallah	The Bidder is advised to visit and examine the site where the plant is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract for the provision of Plant and Installation Services. The costs of visiting the site shall be at the Bidder's own expense.
For Extension Substations - Katapalli & Boudh				
1	Volume II, BPS, Schedule - 4 (Civil Works)	Katapali SS & Boudh SS	The civil scope of work for has not been explicitly mentioned in the tender document for the new and extension stations. As per price schedule, we understand that for new stations, the following works are in bidder's scope 1.Soil Investigation 2.Anti-Weed Treatment 3.Excavation and open cast/shallow foundation for towers and Equipment Support Structures 4.Cable trenches 5.PCC before site surfacing 6.Metal Spreading 7.Roads 8.Drains 9.Switchyard fencing 10.Stone pitching and toe wall Kindly confirm.	Pl. quote as per BOQ.
2	General	--	Please furnish the Existing Overall GA Drawing, SLD and Existing Electrical layout for the following substations: 1. 220 kV Katapalli Extension SS 2. 132kV Boudh Extension SS	SLD is attached. GA and electrical layout shall be matched with the existing arrangement. Available drawings shall be provided in the event of award of contract.
3	General	--	Please furnish the following details for Katapalli & Boudh substation. 1. Soil investigation report 2. Contour layout with Proposed FGL In order to estimate the approx. quantum of civil works.	Bidders scope

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
4	General	--	The following works are not furnished in the BPS, however, maybe required in completion of works: 1. Dismantling and reconstruction of existing road 2. Dismantling and reconstruction of existing fence 3. Dismantling and reconstruction of existing drain 4. Dismantling and reconstruction of existing cable trenches. If required, kindly add items for the same in the BPS. Also, we presume that no building extension or any modification is envisaged in the existing buildings. Kindly confirm.	Pl. quote as per BOQ.
5	Tender specification	--	Please provide following existing outdoor structure/ foundation drawings for the existing SS a. Towers, Equipment Structure drawings b. Tower, Equipment structure foundation drawings c. Switchyard Road. d. Switchyard Drainage details along with Crossings. e. Cable trench and Cable trench crossings. f. Switchyard fencing. In order to estimate the quantum of civil works	Would be provided in the event of award of contract.
6	Volume II, BPS, Schedule - 4 (Civil Works)	Katapali SS Boudh SS	We presume that piling is not envisaged in the proposed substations. Kindly confirm. If it is envisaged, then the same shall be paid under additional item.	Pl. quote as per BOQ.
7	Bid Price schedule, schedule 2 (Supply), & Bid Price schedule, schedule 4 (Civil works)	S.No - 26 & 13	In schedule-2-Supply, Sl no: 26, Item for GI Cable trays including support GI angle for various cable trench section is given in meter. In schedule-4-Erection(Civil works), Sl no: 13, item for cable trench is given meter and mentioned that this also including supply of GI angle for cable trays support. Please clarify, the GI angle required for cable trays support will be paid under supply schedule or Erection schedule(Civil works).	The GI angle required for cable trays support will be paid under supply schedule
8	Bid Price schedule, schedule 2 (Supply), & Bid Price schedule, schedule 4 (Civil works)	S.No - 26 & 13	In referred Sl nos, item for various cable trench section is given in meters for cable trays and cable trench separately. The quantity mentioned for cable trays & cable trench is not matching. Please clarify.	As Per BOQ
9	Bid Price schedule 4 (Civil works)	Sl no:5 & 6	We trust that, the unit Qty. given in referred Sl.Nos. (i.e. Excavation, PCC & RCC) is only for tower (Including LM), equipment foundations and any other item not covered elsewhere in BPS. Please confirm.	Pl. quote as per the BOQ.
10	Volume III (TS), E6-Civil works, Page no: 64 of 73 & Bid Price schedule, schedule 4 (Civil works)	III & Civil works	As there is a discrepancy between Civil mode of measurement and price schedule. Please clarify whether the civil works will be paid as per price schedule or mode of measurement. If the Civil works shall be paid as per mode of measurement. Please include the following item in the price schedule separately. 1.Reinforcement steel 2.Misc. Structural Steel 3. Stone filling for Transformers.	As per BOQ.
11	Bid Price schedule, 4 (Civil works)	Sl.No.16 & Sl.No.17	In the price schedule item for drain is given separately, however in road work it is mentioned that, the road shall have drains on both the side of the road. We presume that drains provided along road shall be paid separately as part of drain. Kindly confirm.	The drains on both the side of the road are an integral part of "road works" and will not be paid separately.

Electrical

220/132/33kV Kiakata substation

1	Power Transformer 220/132kV,100/160MVA	Kindly furnish the technical specification for 220/132kV,100/160 MVA transformer.	TS for 220/132kV, 160 MVA transformer has already been provided in Vol-III Part-I.
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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
2	Price Schedule No. 2	Fault level for 132kV	As per Price Schedule no. 2 (supply schedule for Kiakata), Item no. 8 & 9, 132kV isolators and current transformers are rated for short circuit fault level of 31.5kA. However in item 14, 132kV circuit breaker is rated for 40kA. Kindly confirm the short circuit level & duration to be adopted for 132kV system.	CB:40 KA for 3 sec,other equipments:31.5KA for 1 sec.
3	Price Schedule No. 2	Price schedule no.2 (supply schedule for Kiakata) item no. 2.3 & 9.1	As per our calculations, quantities for below mentioned items are different from the quantities specified in BPS. we request you to please confirm the quantities. a) Sl. No. 2.3 - 220kV beam mounted isolator without earth switch b) Sl. No. 9.1 - 132kV Single isolator without earth switch	Pl quote as BOQ.
4	Price Schedule No. 2	Price schedule no.2 (supply schedule for Kiakata) item no.36.1.2	As per technical specification Volume III, E19, Cl 10.1 A) 2), the ACDB incomers are rated for 250 A MCCB. However as per the referred line item of price schedule, the incomer MCCBs are rated for 400A. Please confirm the requirement.	As per BOQ.
5	Price Schedule No. 2	Price schedule no.2 (supply schedule for Kiakata) item no.10	As per technical specification Volume III, E19-IVT & CVT, Appendix-1.Sl.no.29, the coupling capacitance value for 145kV capacitive voltage transformer shall be 4400pF. However as per the referred clause of price schedule, the coupling capacitance value for 145kV CVT is mentioned as 6600pF. Please clarify.	Pl quote as per BOQ
6		General	We presume that supply of tension insulator for 33kV outgoing lines are not in present scope of work. Please confirm.	As per BOQ.
7	BPS Schedule-2	Sl. no. 35 for Kiakata Sl. no. 26 for Dasapalla	As per referred Sl nos. quantities of numerical relays, auxiliary relays, BCU etc. has been specified. As there are mismatch in the quantities w.r.t no. of bays under present scope ,we request OPTCL to revise the line item by including the number of control & relay panels required for each voltage level (220kV, 132kV and 33kV).	Revised and Amended BOQ is uploaded.
220/33kV Daspalla substation				
1	Price Schedule No. 2	Price schedule no.2 (supply schedule for Kiakata) item no. 2.3 & 10.1	As per our calculations, quantities for below mentioned items are different from the quantities specified in BPS. we request you to please confirm the quantities. a) Sl. No. 2.3 - 220kV beam mounted isolator without earth switch b) Sl. No. 10.1 - 36kV Single isolator without earth switch	As per BOQ.
2	Price Schedule No. 2	Price schedule no.2 (supply schedule for Dasapalla) item no.27.1.2	As per technical specification Volume III, E19, Cl 10.1 A) 2), the ACDB incomers are rated for 250 A MCCB. However as per the referred line item of price schedule, the incomer MCCBs are rated for 400A. Please confirm the requirement.	As per BOQ.
3	Price Schedule No. 2	Fault level for 220kV	As per Price Schedule no. 2 (supply schedule for Dasapalla), Item no. 1 & 4, the 220kV current transformers are rated for short circuit fault level of 40kA. However in item 4 of the same schedule, 220kV circuit breaker is rated for 50kA. Kindly confirm the short circuit level & duration to be adopted for 220kV system.	CB:50 KA for 3 sec,other equipments:40KA for 1 sec.
4		General	We presume that supply of tension insulator for incoming line of 220kV and 33kV are not in scope of work. Please confirm	As per BOQ.
Common for Kiakata & Daspalla				
1		Main bus Bar	We presume that no bus work is required for the future bays. Please confirm.	Future bays: 220KV- 02 Nos., 132 KV- 02 Nos & 33 KV- 02 Nos: Proposed bays shall be Unequipped but with required column foundations, supply & erection of structures with beam, site surfacing (metal spreading), earth mat laying, bus extension etc are considered. There shall be no equipment foundations for the unequipped bays.
2	Technical Specification - Circuit Breaker	Circuit breaker	Please specify the mechanical and electrical endurance for the 220kV,132kV & 33kV circuit breakers.	As per Technical Specifications
3		General	Please furnish the following inputs pertaining to Kiakata & Daspalla stations in the scope of work: a) Single Line Diagram b) Overall plot plan indicating the location of control building and present scope c) Plan & section drawings for 220kV,132kV & 33kV switchyards d) Control Building layout e) Cable Trench Section details f) Location of AC kiosk	Indicative Single Line diagram for both the projects are supplied with the Bid documents. However, the same are again attached and uploaded in OPTCL OPTCL website. Design & drawings for rest of documents are in Bidder's Scope.

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
4		Conductor details	Please furnish details conductor configuration (2x ACSR Moose / 1x ACSR Moose) to be used for strung bus of the following bays: a) 220kV Line bays b) 220kV transformer bays c) 132kV Line bays d) 132kV transformer bays	(i) Main Bus shall be with Twin ACSR MOOSE Conductor. (220kV, 132 KV & 33 KV MAIN BUS) (ii) Reserve/ Transfer & Cross Bus shall be with SINGLE ACSR MOOSE Conductor.
5		Station transformer	Please clarify the source of 33kV supply for Station transformer.	From the 33KV Bus of the switchyard
6		Indoor Lighting	Indoor lighting fixtures are not included in the price schedule. Please include the same as a separate line item.	CONTROL ROOM BUILDING- under Schedule-4SS -Civil Works includes supply and fixing of lighting fixtures in BOQ.
7		DSLIP	Lightning protection for the substation shall be designed using spikes mounted on towers only. No lightning mast or shield wire stringing is envisaged. Please confirm.	As per BOQ and TS.
8	Vol-III (TS),E10-General equipment & substation accessories	Cl.No.12.0	As per the referred clause, contractor can offer composite silicon insulators. Please confirm.	As per BOQ: ANTI FOG TYPE LR INSULATOR.
9	Vol-III (TS),E13- Isolator,technical particular of 33kV isolator	page 2 of 16	As per referred clause,continuous current rating of 33kV isolator is 800A.However,as per price schedule (2), continuous current rating of 33kV isolator is 1250A.Please clarify the requirement.	As per BOQ.
10		BPS - Lighting transformer	Lighting transformer is required as per technical specification; Whereas the same item is not available in the price schedule. We request you to include a line item for the same.	As per BOQ.
11		Scope - Bus bar protection	Please clarify the scope of bus bar protection. We presume central unit shall be designed for present scope of works only. Kindly confirm.	As per BOQ & Technical Specifications
12	Price schedule no.2 (supply schedule for Kiakata) Price schedule no.2 (supply schedule for Dasapalla)	item no. 38 item no. 29, 220V battery charger	As per the referred line items of price schedule, for Kiakata 2set of 220V Float & Float-cum-boost chargers are indicated. However, for Dasapalla station the same is indicated as 1set. Please clarify the battery charger configuration to be adopted.	As per BOQ.
13	Price schedule no.2 (supply schedule for Kiakata) Price schedule no.2 (supply schedule for Dasapalla)	item no. 30.5 item no. 21.5, RTU	Kindly furnish the technical specification for remote terminal unit (RTU).Also please confirm the application and voltage level for which RTU needs to be provided.	TS for RTU has already been provided in Vol-III Part-I.
14		Price schedule	Please include the following as a separate line item in price schedule required for completion of project. 1) 220kV single suspension (90KN) H/W fittings for twin moose ACSR 2) 33kV single suspension (90KN) H/W fittings for twin moose ACSR 3) Welding sleeves & corona Bell	Pl quote as per BOQ.
15		DG Set	We do not envisage the supply of DG set under the present scope of works as the same is not mentioned in the price schedule. Please confirm whether our understanding is correct.	Pl quote as per BOQ.
16		Specification	Kindly furnish the technical specification for the following - a) Fiber optic communication b) Substation automation.	The same has already been provided in Vol-III Part-I.
Common for extension work at Katapalli & Boudh				
1		General	We presume that main bus and transfer bus are already present for extension work at Katapalli & Boudh. So we do not envisage any bus work in present scope of work.	Bidder is advised to make a site visit and quote as per the BOQ.
2	Price schedule no.2 (supply schedule for Katapalli & Boudh)	Control & Relay panel	Control and relay panel for Katapalli & Boudh substation are not included in the price schedule. We presume that it is already available & we do not envisage any retrofitting/augmentation works in the existing control & relay panels. Please confirm	Revised and Amended BOQ is uploaded.

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	Client's Reply
3	Price schedule no.2 (supply schedule for Katapalli & Boudh)	Control & Relay panel	We presume the existing Control & protection systems in Katapalli & Boudh stations are of conventional hardwired concept. Please confirm	Yes.
4	Price schedule no.2 (supply schedule for Katapalli & Boudh)	Sl. No. 35.1.7 & 35.2.7, Busbar protection	As per the price schedule, no augmentation of bus bar panel is indicated in the present scope of work. We presume that the central unit is capable to accommodate the present scope of work also & we do not envisage any retrofitting/augmentation works in central unit. Please confirm.	As per BOQ.
5	Price schedule no.2 (supply schedule for Katapalli & Boudh)	Sl. No. 35.1.1 & 35.2.1, AC kiosk	As per the referred line item of price schedule, we do not envisage SAS augmentation works & AC kiosk for the present scope of work. Please confirm.	As per BOQ.
6		General	Please furnish the following existing drawings pertaining to Katapalli & Boudh stations: a) Existing Single Line Diagram b) Overall GA drawing indicating the location of control building and present scope c) Plan & section drawings for 220kV & 132kV switchyards d) Existing lighting layout e) Cable trench layouts f) Earthmat layout g) Existing Lightning protection layout h) Existing control building layout i) SAS/SCADA architecture (as applicable)	To be provided in the event of award of contract.
7		Common facilities	We presume the following items are adequately rated to take care of extension works in existing Katapalli and Boudh station: 1) Station transformers 2) DG set 3) Battery & Chargers 4) Spare AC / DC feeders in existing LT switchboards 5) Cable trench & trays 6) Fire Alarm and detection Hence, we do not envisage any works pertaining to the above equipments. Please confirm	Yes.
Mechanical				
Kiakata & Dasapalla				
1	Volume III (TS), E 29 - Fire protection, Page no: 5 of 57	Clause No. 2.03.00	Kindly confirm the type of Fire detection system (whether addressable or conventional type) to be considered.	As per BOQ and Tehcnical Specifications
2	General	-	Fire protection required for transformers will be NIFPS type or Hydrant type. Please confirm.	As per BOQ and Tehcnical Specifications
3	Bid Price schedule, Schedule - 1 SS	Kiakata SS S.No. 35.2.1 & Dasapala S.No. 26.2.1	Kindly confirm the type of AC units & its standby requirements required for AC kiosk (whether Hi-wall split or telepac type)	Tehcnical Specifications for YARD AC KOISK is uploaded on OPTCL website.

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19/11/17