S.NO	Requirement	Compliance Requirements				Confirmation required	OPTCL Reply
		Single Entity	Joint Venture/Consortium (existing or				
			All Parties Combined	Each Member	One Member		
1	The Bidder shall demonstrate that it has successfully executed 220/33 kV or higher voltage class GRID Sub-Stations (AIS) with 2 nos. of Power Transformers-1 no. and 220 kV or higher voltage class transmission line - 78 kms (Route Length) on EPC Contract / Turnkey Contract basis for any Transmission Utility during Last seven Years preceding to the year from the date of NIT. Note: Bidder has to submit the detail list of contracts as per the format (FORM EXP-2(a)).	**Must Meet Requirement (100%)**	**Must Meet Requirement (100%)**	**Not Applicable**	**Must Meet Requirement (50%) (in case of a fraction next higher no. to be considered)**	In case of Joint venture one member must meet the Sub-station requirement and the other member must meet the Transmission line portion requirement, making it 100%.	One member must meet 50% (in case of a fraction next higher no. to be considered) of both one no. of substation and 78 Kms. of transmission line as per the qualifying requirement.

Sr. No.	Reference Clause	Queries	OPTCL Remarks/Clarification
		COMMERCIAL	
1	No. of Contracts	Please clarify Whether it will be one contract or two/three separate contract for Supply, Erection and Civil.	As per tender condition.
2	Clause No. 1.2.2 Other Factors, Section III. Evaluation and Qualification Criteria - Without Prequalification ii. No credit will be given for earlier completion. Clause No. PC 26.3, Section VIII. Particular Conditions Applicable (amount or rate) for the bonus for early Completion of plant and services in complete shape:0.5% per week of early Completion of the Facilities or part thereof, in accordance with the Time for Completion specified in PC 8.2. Maximum bonus: 2.5% of the contract price	Both referred clause contradict each other. Please confirm which clause to consider.	Clause PC 26.3
3	Appendix 5. List of Major Items of Plant and Installation Services and List of Approved Subcontractors	We understand that bidder need not submit vendor qualification documents (i.e. Performance certificate, Type test report etc.) if equipment is supplied from approved vendor given with the tender documents and only need to submit Manufacturer's Authorization letter as per Form-MAN. Please confirm.	As stated in ITB 11.2(1) and GC Sub-Clause 19.1 of Bid Document.
4	Bank Beneficiary details	As per new guidelines, the bank seek following details of beneficiary to issue bank guarantee: 1. Name and address of beneficiary Bank. 2. Account No. 3. IFSC Code. Please provide the same.	Please find below the bank account details of OPTCL as required by you 1.Bank Name-UNION BANK OF INDIA 2.Account Name-ODISHA POWER TRANSMISSION CORPN.LTD 3.Branch Code-38080 4.Account Number-380801010035093 5.MICR Number-751026002 6.IFSC/RTGS Code-UBIN 0538086 7.Branch Address-Bhubaneswar Main Branch,Near Rajmahal Square,Bhubaneswar-751009 Further it may be noted that, the BG should be in the format given in tender specification on the Non-judicial stamp paper to be purchased in the name of the bank.
5	GST	Please confirm applicability of GST for the contract in case of implementation of the same after 1st April 2016, Whether GST Variation will be given or not.	Pl refer Clause No. 14 : Taxes & Duties, Section VII - General Conditions of the SBD.

6	Clause No. 14, Section VII - General Conditions Concessional Sales Tax.	We understand that for availing concessional sales tax, necessary C-Form will be provided by OPTCL. Please confirm.	OPTCL will provide the "C" Form.
7	Clause No. 14.4, Section VII - General Conditions Statutory Variation.	As per referred Clause we understand that statutory variation will be given for Bought out as well as Direct Items in case of change in Taxes. Please confirm.	As per tender condition.
8	Clause No. 1.2.2 Other Factors, Section III. Evaluation and Qualification Criteria - Following Prequalification i. Terminal of Gantry shall be provided by an Employer.	Please confirm terminal point outside the substation boundry wall is in OPTCL Scope.	Bidder's Scope.
9	Clause No. 1.2.2 Other Factors, Section III. Evaluation and Qualification Criteria - Following Prequalification iii. Employer will assist to secure the ROW, getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body.	Kindly elaborate the word assist. We understand that all the necessary approval for ROW, getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body will be provided by OPTCL.	In case of any hinderance during execution of the work, if the contractor need the help of OPTCL, OPTCL will extend the possible assistance to the contractor to get the clearance.
10	Clause No. PC 26.2, Section VIII. Particular Conditions Applicable rate for liquidated damages: 0.5% per 1-week delay or part there of	We understand that Applicable rate of LD is 0.5% per 1-week delay or part there of, of **delayed portion.** Please confirm our understanding.	Applicable rate for liquidated damages: 0.5% per 1-week delay or part there of. Maximum deduction for liquidated damages shall not exceed five percent (05%) of the **Contract Price.**
11	Soil investigation report	You are requested to provide soil investigation report along with Earthmat layout for existing substation.	Bidder's Scope.
12	Clause 1.2 Economic Evaluation, Section III. v. Loss capitalization of the Transformers shall not be considered for evaluation.	Both referred clause contradict each other. Please confirm which clause to consider. Please provide Guaranteed loss figure in case of capitalization is not applicable.	Vol-I, Section-III - Evaluation and Qualification Criteria: As per the Clause 1.2 Economic Evaluation, "Loss capitalization of the Transformers shall not be considered for evaluation." 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:
13	**Technical Specification for Transformer** 5.2.2 Loss figure for evaluation of bid:- For total cost evaluation for comparison, capitalized cost of losses shall be calculated at the following rates per one-kilo watt of loss:		
14	COMMON DOCUMENT TECHNICAL SPECIFICATION VOLUME-III (PART-I) 1.2 Specific exclusions:	As per referred clause we understand that Land acquisition is not in the scope of bidder & OPTCL will provide acquired land for construction. Please confirm	OPTCL will provide the land for the projects.

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15	ITB, 1.1 (IFB No.)	There is discrepancy in IFB No. Mentioned in tender documents. Please confirm the same.	As per SBD
		220KV/132/33KV KIAKATA S/S	
1	Price Schedule Sl No. (7) : Bus Post Insulators	Quantities provided in the price schedule includes post insulators for Isolators also. Please confirm.	No. As per BOQ.
2	Price Schedule Sl No. (1 & 8) : 245 & 145KV Current Transformer	Accuracy class as per price schedule is 0.2s, while as per specification it is 0.2. Please clarify.	Accuracy class is 0.2s
3	Price Schedule Sl No. (9.1) : 145KV, 1250A, 31.5KA, S/I Isolators without E/S	Quantity is not matching with tender SLD. Further, please confirm whether main bus isolator are ground or beam mounted.	SLD is indicative. Main bus sectional isolators are ground mounted.
4	Price Schedule Sl No. (22) : 36KV, 1250A, 25KA, VCB	Current rating of VCB as per specification is 1600A. Please clarify.	As Per price schedule.
5	Price Schedule Sl No. (24.3) : IPS 4" Aluminium Tube	Welding sleeve required for tube is not included in the price schedule.	Bidders are to consider the same and include either in supply or in erection schedule.
6	Price Schedule Sl No. (24.5) : Earth Wires & it's Hardware Fitting	Earthing spikes of 9 Mtr, 7 mtrs, & 5 Mtr long to be mounted on sub-station gantries. Further, please also provide details of down conductor for connecting Earthing spikes with Switchyard earthing grid.	Pl refer Technical Specifications and BOQ
7	Price Schedule Sl No. (24.3) : Station Transformer 33KV/0.4V, 250KVA	As per Specification 630sqmm, XLPE cable to be considered for LT transformer to Main ACDB connection. Same is not considered in price schedule. Please clarify.	The cable size is XLPE 3.5 CX300 sq. mm. as per BOQ. PL quote as per amended BOQ
8	Price Schedule Sl No. (32) : Switchyard Lighting	Indoor Lighting BOQ is not included in price schedule for Yard AC kiosk etc.	CONTROL ROOM BUILDING- under Schedule-4SS -Civil Works includes supply and fixing of lighting fixtures in BOQ. For Yard AC kiosk pl refer the TS uploaded.
		Supply of cables for lighting will be covered in cable items. Please confirm.	YES
9	Price Schedule Sly No. (34) : Fire Fighting System	As per price schedule hydrant, HVWS, NIFPES fire protection system is not considered for Transformers. Please confirm the requirement.	Pl quote as per the BOQ.
10	Price Schedule Sly No. (35.1.1, 35.2.1, 35.3.1) : Yard AC Kiosk	Please confirm whether Kiosk is Pre-fabricated type or RCC type.	Tehcnical Specifications for YARD AC KOISK is uploaded on OPTCL website.
11	Price Schedule Sl No. (36) : AC & DC System	Please confirm we have to consider Main ACDB, ACDB, MLDB, Lighting DB, ELDB, 220V DCDB, 48V DCDB as per Feeders details provided in the technical specification	As per BOQ
		DG set Supply is not included in the price schedule.	As per BOQ
13	Price Schedule Sl No. (29) : Control Room Building	Area of ground floor & first floor provided in the price schedule is not matching with the area given in specification. Please Clarify.	As per BOQ
14	General	Please provide tender layout & Section Drawing for clarity.	Single Line diagram for both the projects available on OPTCL website.Rest documents are in Bidder's Scope.

15	General	Please provide conductor type for Main, Transfer & Equipment Bus.	(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.
16	General	Please provide below mention standard drawings:- **Control Room Building** **Main Gate** **Wicket gate near main gate** **switchyard gate** **Wicket gate near switchyard** **Security Shed** **Pump house** **Platform for storing equipments** **Store Shed** **"D" Type Quarter** **"E" Type Quarter**	All dimensions of the civil structures have been provided in the BOQ. The drawings are to be designed and submitted by the executing agency confirming to the BOQ and Technical specifcation for necessary approval.
		220KV/33KV DASPALLA S/S	
1	Price Schedule Sl No. (7) : Bus Post Insulators	Quantities provided in the price schedule includes post insulators for Isolators also. Please confirm.	No.As per BOQ.
2	Price Schedule Sl No. (1) : 245KV Current Transformer	Accuracy class as per price schedule is 0.2s, while as per specification it is 0.2. Please clarify.	Accuracy class is 0.2s
3	Price Schedule Sl No. (13) : 36KV, 1250A, 25KA, VCB	Current rating of VCB as per specification is 1600A. Please clarify.	As Per Price schedule.
4	Price Schedule Sl No. (15.3) : IPS 4" Aluminium Tube	Welding sleeve required for tube is not included in the price schedule.	Bidders are to consider the same and include either in supply or in erection schedule.
5	Price Schedule Sl No. (15.5) : Earth Wires & it's Hardware Fitting	Earthing spikes of 9 Mtr, 7 mtrs, & 5 Mtr long to be mounted on sub-station gantries. Further, please also provide details of down conductor for connecting Earthing spikes with Switchyard earthing grid.	Pl refer Technical Specifications and BOQ
6	Price Schedule Sl No. (22.2) : Station Transformer 33KV/0.4V, 250KVA	As per Specification 630sqmm, XLPE cable to be considered for LT transformer to Main ACDB connection. Same is not considered in price schedule. Please clarify.	The cable size is XLPE 3.5 CX300 sq. mm. as per BOQ. PL quote as per amended BOQ
7	Price Schedule Sl No. (23) : Switchyard Lighting	Indoor Lighting BOQ is not included in price schedule for Yard AC kiosk etc.	CONTROL ROOM BUILDING- under Schedule-4SS -Civil Works includes supply and fixing of lighting fixtures in BOQ. For Yard AC kiosk pl refer the TS uploaded.
		Supply of cables for lighting will be covered in cable items. Please confirm.	YES
8	Price Schedule Sl No. (25) : Fire Fighting System	As per price schedule hydrant, HVWS, NIFPES fire protection system is not considered for Transformers. Please confirm the requirement.	Pl quote as per the BOQ.
9	Price Schedule Sl No. (26.1.1, 26.2.1) : Yard AC Kiosk	Please confirm whether Kiosk is Pre-fabricated type or RCC type.	Tehcnical Specifications for YARD AC KOISK is uploaded on OPTCL website.

10	Price Schedule Sl No. (27) : AC & DC System	Please confirm we have to consider Main ACDB, ACDB, MLDB, Lighting DB, ELDB, 220V DCDB, 48V DCDB as per Feeders details provided in the technical specification	As per BOQ
		DG set Supply is not included in the price schedule.	As per BOQ
12	Price Schedule Sl No. (27) : Control Room Building	Area of ground floor & first floor provided in the price schedule is not matching with the area given in specification.	As per BOQ
13	General	Please provide tender layout & Section Drawing for clarity.	Single Line diagram for both the projects available on OPTCL website.Rest documents are in Bidder's Scope.
14	General	Please provide conductor type for Main, Transfer & Equipment Bus.	(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.
15	General	Please provide below mention standard drawings:- **Control Room Building** **Main Gate** **Wicket gate near main gate** **switchyard gate** **Wicket gate near switchyard** **Security Shed** **Pump house** **Platform for storing equipments** **Store Shed** **"D" Type Quarter** **"E" Type Quarter**	All dimensions of the civil structures have been provided in the BOQ which may please be referred. The drawings are to be designed and submitted by the executing agency confirming to the BOQ and Technical specifcation for necessary approval.

220KV BAY EXTENSION AT KATAPALI & 132KV BAY EXTENSION AT BOUDH

1	Price Schedule Sl No. (7) : Bus Post Insulators	Quantities provided in the price schedule includes post insulators for Isolators also. Please confirm.	No.As per BOQ.
2	Price Schedule Sl No. (1 & 8) : 245 & 145KV Current Transformer	Accuracy class for 245 & 145KV CT as per price schedule is 0.2s, while as per specification it is 0.2. Please clarify.	Accuracy class is 0.2s
3	Price Schedule Sl No. (24.5) : Earth Wires & it's Hardware Fitting	Earthing spikes of 9 Mtr, 7 mtrs, & 5 Mtr long to be mounted on sub-station gantries. Further, please also provide details of down conductor for connecting Earthing spikes with Switchyard earthing grid.	Pl refer Technical Specifications and BOQ
		Control & protection panel is not included in the price schedule for Extension Sub-station. Please clarify the scope.	Included in amended BOQ.

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4	Price Schedule Sl No. (35) : Sub-station Automation System	Please clarify the scope of SAS, Bus-bar Augmentation & Integration with existing system for extension Sub-station as same is not included in the price schedule. Please also provide make of CRP SAS at existing substation.	As per BOQ
5	Price Schedule Sl No. (36) : AC & DC System	Please confirm the availability of AC & DC Supply for extension Sub-station.	Available
6	General	Please provide below drawings for extension Sub-station Single Line diagram Layout & Section drawing Earthmat Layout Cable trench layout DSLP Layout Existing Bus-bar protection scheme drawing Existing SAS architecture drawing. Existing OPGW Communication drawings	To be provided in the event of award of contract.

Civil Queries

S.NO	Reference clause	Query	Reply
1	Chapter E6,Technical specification for civil works, Page 19 of 46, Clause 12.8.1,Cable and pipe trenches	Please mention the length of cable trays for each section in the table. If possible please provide the sectional view of cable trenches and their crossings.	Pl refer Technical Specification and BOQ
2	Chapter E6,Technical specification for civil works ,Page 44 of 46	Please provide the drawings of Security shed,Store shed,Pump house and vehicle parking shed	Bidder's Scope
3	Chapter E7,Technical specification for switchyard structures,Page 4 of 9,clause 2.1	It is mentioned that the contractor has to provide the minimum steel sections as per the standard drawings. Please furnish the standard drawings.	To be provided in the event of award of contract.
4	Price shedules(BOQ)	In the price schedules the number of gantry,portal structures and their weights have been mentioned. Hence request to please give the tentative layout and gantry portal structure drawings.	To be provided in the event of award of contract.
5	Price shedules(BOQ) & Chapter E6,Technical specification for civil works	Please provide the following details at existing substation 1) Existing layout drawing 2) Existing civil and structure drawings Also please clarify the scope of work at existing substation	Existing drawings shall be provided in the event of award of contract. Pl refer BOQ for Scope of work at existing substation.
6	Price shedules(BOQ) & Chapter E6,Technical specification for civil works, Page 13 of 46,7.3 measurements,7.2.1 payment of gravel filling	In civil specification it is mentioned that payment for gravel filling will be made in SQ.M where as in price schedule it is quatified in CU.M. Please clarify	Unit for the item quantity is in CUM as per BOQ.

7	Price shedules(BOQ) & Chapter E6,Technical specification for civil works, Page 13 of 46,8.0 Site Drainage	Please include the item manholes for drains in Price schedule as per civil specification.	As per Technical specification the bidder has to consider the same.
8	Price shedules(BOQ) & Chapter E7,Technical specification for switchyard structures,Page 4 of 9,2.0 support structures of switchyard,2.1 General	As per the clauses in technical specification for structures it is mentioned that design,supply and erection of steel structures is in the scope. But the steel structures are not mentioned in the price schedule. Please clarify.	design,supply and erection of steel structures is in the scope of bidder.
9	Chapter E6,Technical specification for civil works,Page 33 of 46,15.0 Fencing,15.1 General	Please provide the drawing of fence as referred in the referred clauses.	Bidder's Scope
10	Price shedules(BOQ) & Chapter E6,Technical specification for civil works	There is a difference of civil specification between that mentioned in technical specification and Price schedule for fencing. Please confirm which is to be followed.	Pl quote as per BOQ and technical specification.

S.No	Volume	Reference/ Clause	Bidder Queries	OPTCL Reply
A. Substation				
1. Electrical				
1	II	S.No 26.1.1 of BOQ,Schedule-II, Dasapala Substation & S.No 35.1.1 of BOQ,Schedule-II, Kiakata Substation	Kindly provide us the Yard AC Kiosk Specification as it is not provided in the Bidding Documents	Tehcnical Specifications for YARD AC KOISK is uploaded on OPTCL website.
2	II	S.No 26.1.2 of BOQ,Schedule-II, Dasapala Substation& S.No 35.1.2 of BOQ,Schedule-II, Kiakata Substation	Kindly provide us the Specification of Bay Control Units as it is not provided in the Bidding Documents	Pl refer TS for SAS
3	II	S.No 26.1.17 & 26.2.10 of BOQ,Schedule-II, Dasapala Substation, S.No 35.1.17 & 35.2.17 of BOQ,Schedule-II, Kiakata Substation	Can the DC Distribution be included in the respective control and relay panel instead of separate DCDB Board for Control & Relay Panels of the substation. If not, kindly provide us the specification of the DCDB panel.	As per Technical specification.
4	III, Part-I	Clause 2.14, Mimic Diagram, Chapter E21: Control & Relay Panels	As Per clause 2.14 "Mimic Diagram shall be provided in front of Control Panel". However in Sl.No 35.1.6, Schedule-II, Kiakata Substation of BOQ, Simplex Cubicle type panels are only 6 which we understand are relay panels are 6 nos bays. Control Panels is not incorporated in BOQ. Please Clarify.	There is no separate control panel in view of SAS.
5	III, Part-I	Clause 2.16, Indicating Lamps, Chapter E21: Control & Relay Panels	Indication lamps will be the integral part of BCU. Indicating lamps are only applicable for conventional type C&R panels. We are not considering any indicating lamps in our scope of works. Please Confirm	Pl refer TS for SAS
6	III, Part-I	Clause 2.21, Annunciation System, Chapter E21: Control & Relay Panels	Annuication will be the integral part of BCU and they are only applicable for conventional type C&R panels. We are not considering any annuication part in our scope of works. Please Confirm	Pl refer TS for SAS
7	III, Part-I	Clause 11.2, BOQ for Individual Panels, Chapter E21: Control & Relay Panels	Only Relay panels with BCU has been considered in our scope of works. No control panels is considered in our scope of works. Please Confirm	As per BoQ.
8	III, Part-I	Clause 11.3, Line Protection Panel & Clause 11.4, Transformer Protection Panel, Chapter E21: Control & Relay Panels	As Per Sl.No 3 of Clause 11.3 & Sl.No 3 of Clause 11.4, Composite numerical directional & or non-directional overcurrent and erath fault relay is to be provided for transmission line and transformer bays. Wheras in BoQ of respective Substations, numerical directional & or non-directional overcurrent and erath fault relay is provided only for transformer bays	Pl refer amended BOQ uploaded.
9	III, Part-I & II	Clause 13.11, Trip Circuit Supervision Relay & Sl.No 35.1.2, Schedule-II, Kiakata Substation, BoQ	As per clause 13.11, Trip Circuit Supervision Relay is to be provided, where as in Sl.No 35.1.2, Schedule-II, Kiakata Substation, BoQ the quantity mentioned is zero.Please Clarify	Pl refer amended BOQ uploaded.
10	III, Part-I	Clause 11.3, Line Protection Panel, Chapter E21: Control & Relay Panels	As Per Sl.No 13 of Clause 11.3, Breaker Fauilure Protection Scheme is to be provided where the same is not incorporated in BoQ of respective substations.	LBB shall be provided as inbuilt feature of Busbar protection
11	III	S.No 2.3 of BOQ, Schedule-II, Dasapala Substation	Kindly Provide the Single Line Diagram of 220/33 kV Dasapala Substation, 220/132 kV Kiakata Substation, Katapalli Substation, Boudh Substation for the correct understsnding and location of Beam Isolators as the quanitity is on higher side.	SLDs are uploaded on OPTCL site.
12	III, Part-I	Clause 4.12, Porcelain Housing, Chapter E15, Surge Arrester.	Maunfacturer is recommending Polymer Housing over Porcelain Housing. Kindly Confirm, whether we can supply Polymer Housing Surge Arrester which are superior compared to Porcelain Housing Surge Arrester	As per Technical specification
13	II	Sl.No 17, Schedule-II, Dasapala Substation of BoQ & S.No 26 of BOQ,Schedule-II, Kiakata Substation	Please provide the thickness of the Tray, Ladder Tray or Perforated Tray and Hot dip Gal Tray or GI Pre Gal Tray.	As per Technical specification

14	II	Sl.No 23 & Sl.No 24.4.17 Schedule-II, Kiakata Substation of BoQ	Mismatch in 33KV PI Clamp quantity with 33kV BPI quantity. Please Clarify	As per BoQ.
15	II	Sl.No 24.1.1, Schedule-II, Kiakata Substation of BoQ	Please Specify the quantities at different voltage level sides (i.e 220kV side & 132kV Side).	As per BoQ.
16	II	Sl.No 24.1.2, Schedule-II, Kiakata Substation of BoQ	Please Specify the quantities at different voltage level sides (i.e 220kV side & 132kV Side).	As per BoQ.
17	II	Sl.No 24.1.3, Schedule-II, Kiakata Substation of BoQ	Please Specify the quantities at different voltage level sides (i.e 132kV side & 33kV Side).	As per BoQ.
18	III, Part-I	Clause 5.3., Chapter E11, Circuit Breakers	Clause 5.3 mentions that "One Central Control Cabinet for each breaker and one control box for each pole is to be provided"where as, 132 kV Circuit breaker is Gang Operated as per Sl. No 6, Type of Operation of Table 4.0; principal Parameters". For Ganged Circuit Breakers, One Central Control Cabinet is sufficient for operation. Kindly confirm that whether we can supply one central control cabinet for 132 kV Circuit Breakers, One Central Control Cabinet and one control box for each pole for 245 kV Circuit Breakers	As per Technical specification
19	III, Part-I	Clause 5.18, Chapter E11, Circuit Breakers	As per clause 5.18 Para 1" Motor rating shall be such that it only requires 15 Seconds for fully charging the closing spring" where as in para 5"The motor rating shall be such that it requires not more than 30 seconds for full charging of the closing spring.	As per IEC and Type test report confirming to TS.
20	III, Part-I	Clause 5.20, Chapter E11, Circuit Breakers	As per Clause 5.24"50 X 8 mm mild steel flat to be provided for connection to station earth mat where as in Sl.No 25.2, Kiakata Substation, Schedule-II of BOQ, Earthing Conductor: 50 X 6 mm GI flat for raiser from the burial earth mat to equiupment, structure etc. "50 X 8 mm mild steel flat is not included in BoQ. Please Clarify	50 X 6 mm GI flat for raiser from the burial earth mat to equiupment, structure etc.
21	General	Earthing Material	Specification for Earthing system of substation is not provided as part of the bidding documents. Kindly provide the same.	Earting material is provided in BOQ. The bidder has to submit the design for earthing system as per latest IS/ IEC and technical specification.
22	General	Drawings	All the Manufacturers of C & R Panels are requesting SLD to provide the price offer for C & R Panels and SCADA System. Please provide the same.	SLDs are uploaded on OPTCL site
23	III, Part-I	Clause 5.2.4 of 20 MVA 220/33 kV Power Transformer, Vol-3, Part 1 ,	• Cl. 5.2.4 In case of failure of the transformer, the supplier shall take back the faulty transformer from its plinth for repair at their own cost (or replace the transformer with a new transformer) and deliver, at their own cost, unload at the destination sub-station transformer plinth within three months period from the date of intimation of defects to the satisfaction of the owner, at free of cost. If the repair/replacement will not be completed within three months, then the supplier shall pay penalty @ 0.5% of the contract price for each calendar week of delay from the end of three months period from the date of intimation of defects. Also, the Purchaser reserves the right for forfeiture of the total Composite Bank Guarantee and all the Securities, available with OPTCL, in case the Supplier fails to pay the penalty by one month before the expiry of the guarantee period. Also, this will be taken as adverse in all future tenders. It is presumed/understood that, the above Clause 5.2.4 shall be valid till the defect liability period. Please confirm.	As per conditions of SBD
24	III, Part-I	20 MVA 220/33 kV Power Transformer &160 MVA 220/132 kV	Please confirm whether the NCT shall be in Transformer bushing or Shall be outdoor for both the 20 MVA 220/33 kV & 220/132 kV Auto Transformer.	As per TS of transformers

25		20 MVA 220/33 kV Power Transformer &160 MVA 220/132 kV	Please Confirm the Fire Protection system to be adopted for both the 20 MVA 220/33 kV & 160 MVA 220/132 kV Auto Transformer, as in chapter E 29- Fire Protection System, Vol-3, Part-II specifies that Hydrant and HVW Spray system shall be for 400 kV level only. If there is requirement of any other Fire protection system, include the same in BOQ and provide the technical specifications	As per TS
26	III, Part-I	Chapter E17, Battery & Battery Charger	We understand that the existing auxiliary supply(both AC &DC) at Katapalli and Boudh substations are adequately sized & rated to 2 No. of 220 kv and 2 No. of 132 kV bays which are to be extended.	available
27	III, Part-I	Chapter E17, Battery & Battery Charger	As per BOQ, the requirement of 220V FC & FCB charger suitable for 350Ah Plante type battery. But as per the specification, the requirement calls for both 220V FC & FCBC suitable for 350Ah Battery and 220V FC & FCBC suitable for 645AH Plante battery- Kindly confirm the requirement of 220V Charger whether it is suitable for 350AH or 645AH Plante battery or for both.	As per BoQ.
28	III, Part-I	Chapter E17, Battery & Battery Charger	As per BOQ 48V charger required is of SMPS based Charger but as per the enclosed spec the 48V charger is of Float cum boost charger(Thyristor based Technology). Kindly confirm the whether requirement is Thyristor based or SMPS based charger.	As per BoQ.
29	II	S.No 27.1.4 of BOQ,Schedule-II, Dasapala Substation & Sl.No 36.1.4 of BOQ, Schedule-II, Kiakata Substation	Indoor Lighting Distribution board specification may be provided.	Pl.refer TS
30	II	S.No 27.2.2 of BOQ,Schedule-II, Dasapala Substation & Sl.No 36.1.4 of BOQ, Schedule-II, Kiakata Substation	220 V DC Emergency Distribution Board specification may be provided.	Pl.refer TS
31	III	Clause 10.0 , Chapter E19: Distribution Boards	As per subclause 10.1, Page 23 of Chapter E19: Distribution Boards, DG incomer is envaisged in ACDB. Whereas DG set is not incorporated in BOQ. Please clarify.	DG set is not in scope BOQ. However, as per TS, the bidder has to keep provision for DG incomer for future incorporation.
32	II	Sl.No 30, Schedule-II, Kiakata Substation & S.No 21 of BOQ,Schedule-II, Dasapalla Substation	Please provide the specification for OLTE Equipment and the details of the OLTE Equipment of the remote substations. Please provide the link distance of Bhanjanagar-Daspalla and Daspalla-Meramundali.Also Please provide the Telecommunication Layout Diagram of the present scope.	E-35-VOL-III-Technical Specification for Fiber Optic Terminal Equipment is attached to VOL-III. Schematic Layout for provision of speech & data through OPGW applicable to Daspalla SS and Kiakata SS uploaded.
2. Civil				
33	II	Sl.No 5, Schedule-4 (Substation & Bay Extension)of respective substations	Please mention the description and quantity,if any for Hard Soil, soft/dintegrated rock, Hard Rock and blasting material.	As per BoQ.
34	II	Sl.No 1.1, Schedule-4 (Substation & Bay Extension) of respective substations	Contour interval and scale of contour survey map has not been specified.	To be decided during detail engineering.
35	III, Part-I	Clause 4.2, Chapter E6: Civil Works	Quantity 5 Nos of Bore hole is mentioned in B.O.Q, whereas in Clause 4.2, Chapter E6: Civil Works 3 Nos boreholes of 15M depth are required. The quantity should be 6 NOS and depth of boreholes to be drilled of 15m may be confirmed.	As per BoQ.
36	II	Sl.No 2, Schedule-4 (Substation & Bay Extension), Dasapalla Substation	Distance of dumping site from substation site for disposal of surplus earth and unusable materials for mechencial transportation has not been specified in the Schedule No. 4. Please clarify.	Bidder's scope.
37	II	Sl.No 2.1.1, Schedule-4 (Substation & Bay Extension) of respective substations	Quantity of Hard rock requiring blast has not been mentioned in the Boq. Please clarify.	As per BoQ.
38	II	Sl. No . 2.1.7 & 2.1.8, Schedule-4 (Substation & Bay Extension) of respective substations	Items Missing in BoQ.	Corrected & amended BOQ uploaded.

39	II	Sl. No . 2.1.9, Schedule-4 (Substation & Bay Extension) of respective substations	Maximum limit of lead distance beyond 100m of borrowed earth area is not mentioned.	Bidder's scope.
40	General	Civil Works	General layout drawing showing appraoch road formation level of substation switchyard and control room buildingarea is not available.	Bidder's scope.
41	II	Sl. No . 5, Schedule-4 (Substation & Bay Extension) of respective substations	Quantities given in schedule 4ss are inclusive of excavation and backfilling. Please Confirm.	As per BoQ.
42	III, Part-I	Clause 10.00, Roads and Culverts, Chapter E6: Civil works	As per Para 3, clause 10.00 roads and culverts, Chapter E6: Civil works of Voilume-III, Part-I 1.6 m wide shoulders has been mentioned whereas, under Para 1.2 a) & c) of Clause 10.00 both side shoulders of 1.75 m has been mentioned. Shoulder width for 7 m wide road width may please be confirmed.	As per TS
43	III, Part-I	Clause 11.2.4, Drainage, Chapter E6: Civil works	Highest flood level of 1 in 50 years and proposed formation level of substation area is not given for design of drainage system.Please provide the same.	To be decided during detailed engineering.
44	III, Part-I & II	Clause 23.2, Chapter E6: Civil works	As per Clause 23.2, Chapter E6: Civil works, the size of the platform is 20M×15M whereas, in item Sl.No 22 of schedule 4 (Substation & Bay Extension)-Dasapalla Substation, platform size is mentioned as 15M×10M. The platform size maybe confirmed.	As per BoQ.
45	III, Part-I & II	Clause 23.1,Chapter E6: Civil works	As per Clause 23.1,Chapter E6: Civil works- store shed size is 15M×15M Whereas in item Sl.No 22 of schedule 4 size is 10M×10M. Store shed size maybe confirmed.	As per BoQ.
46	III	Civil works sub clauses 1.3 at page-54	As per subclause 1.3, Page 54 of Chapter E6: Civil works, Lump sum item of Fire fighting pump house has to be assessed by contractor as per drawing of control room cum Administrative building. Drawing of Control Cum Admisnistrative building may please be provided. Requirment of fire fighting pump house for 2×20MVA, 220/33KV Substation may be confirmed for bidding purpose.	Pl quote as per the BOQ. All dimensions of the civil structures have been provided in the BOQ. The drawings are to be designed and submitted by the executing agency confirming to the BOQ and Technical specifcation for necessary approval.
47	III, Part-I	Clause 4.2, Chapter E6: Civil Works	Quantity 7 Nos of Bore hole is mentioned in B.O.Q, Schedule-4, Kiakata Substation, whereas in Clause 4.2, Chapter E6: Civil Works 3 Nos boreholes of 15M depth are required. The quantity should be 8 NOS and depth of boreholes to be drilled of 15m may be confirmed.	As per BoQ.
B. Transmission Line				
48	II	Under BOQ under Volume II of III: Under Schedule – 2 : Plant and Mandatory spare parts supplied from Abroad Transmission Line 132 kV Kiakata clause 7.0	Quantities of Single Suspension Hardware fittings , Double Suspension Hardware fittings , Single Tension & Double Tension Hardware fittings for ACSR Panther under subclause 7.1.1,7.1.2,7.1.3 & 7.1.4 are mentioned in NOS. It has to be mentioned in Sets. instead of Sets.	Corrected & amended BOQ uploaded.
49	II	Under BOQ Under Volume II of III: Under Schedule – 2: Plant and Mandatory spare parts supplied from Abroad: (Transmission Line 220 kV Kiakata) clause 5.0	**Long Rod Insulator** mentioned in **clause 5.0** while in sub **clause 5.1 & 5.2** Long road porcelain insulator provided which makes it unclear whether Porcelain insulators are to be supplied or a long rod porcelain insulators are required to be supplied.	Corrected & amended BOQ uploaded.
50	II	Under BOQ Under Volume II of III: Under Schedule – 2: Plant and Mandatory spare parts supplied from Abroad: (Transmission Line 132 kV Kiakata) clause 6.0	**Long Rod porcelain type Insulator** mentioned in **clause 6.0** are provided while in sub clause **6.1 & 6.2 Long road insulator** provided which makes it unclear whether Porcelain insulators are supply or a long rod porcelain insulators are required to be supplied.	Corrected & amended BOQ uploaded.

51	II	Under BOQ Under Volume II of III: Under Schedule – 2 Plant and Mandatory spare parts supplied from Abroad: (Transmission Line 220 kV Dasapalla) clause 7.0	**Antifog type Long Rod Disc Insulator** mentioned **in clause 7.0 w**hile in sub clause **7.1 & 7.2 Long road Porcelain insulator** provided which makes it unclear whether Porcelain insulators are supply or a long rod porcelain insulators are required to be supplied.	As per BoQ.
52	II	Under Volume II of III: Under Schedule – 2 Plant and Mandatory spare parts supplied from Abroad : Transmission Line 132 kV Kiakata - clause 4.0	In clause 4.0 Power Conductor Accessories -Quantity of Mid span joint, Repair sleeve, PA Rod, PG clamp in sub clause 4.1.2 , 4.1.3 .4.1.4 & 4.1.5 are mentioned in sets. It has to be in number instead of set.	Corrected & amended BOQ uploaded.
53	General	Drawings	Kindly Provide the following drawings for 220 KV AND 132 KV Transmisssion Line Hardware fitting, Tower Accessories.	Bidder's scope.