

Invitation for Bids NO. IFB No: [CPC/JICA/ICB/5717-18]

Reference Identification No: [OPTCL/JICA/PKG-5]

Loan Agreement No: [ID-P245]

NAME OF PROJECT:3. Procurement of 220/132/33kV Gunupur S/S (AIS) and T/L and 132/33kV Bahugram S/S (AIS) and T/L in Odisha State of India under Package-5 .

REPLY TO BIDDERS' QUERIES RECEIVED ON VARIOUS DATES

NAME OF CLIENT:- ODISHA POWER TRANSMISSION CORPORATION LIMITED, Bhubaneswar

Sl. No.	Reference Document	Existing clause	Comments/Clarification	OPTCL REPLY
<b>Commercial</b>				
1	Section VIII- Particular Conditions PC 20.3.1 Design and Engineering Appendix 7. List of Documents for Approval or review - A-Approval -- Design and Drawings	<u>PC 20.3.1 Design and Engineering</u> - The Contractor shall prepare or cause its Subcontractors to prepare, and furnish to the Project Manager the documents listed in the Appendix to the Contract Agreement titled List of Documents for Approval or Review, for its approval or review as specified and in accordance with the requirements of GC Sub-Clause 18.2 (Program of Performance).  <u>Appendix 7-List of Documents for Approval or review</u> : Pursuant to GC Sub-Clause 20.3.1, the Contractor shall prepare, or cause its Subcontractor to prepare, and present to the Project Manager in accordance with the requirements of GC Sub-Clause 18.2 (Program of Performance), the following documents for <i>Approval - Design and Drawings</i>	The Bidder understands that only the non-IPR related drawings/as-built drawings need to be provided under this clause. Please confirm	Submission of drawings as per technical specifications in accordance with SBD.
2	Section VIII- Particular Conditions PC 7.3 Scope of facilities	The Contractor agrees to supply spare parts for a period of years: 02years  The Contractor shall carry sufficient inventories to ensure an ex-stock supply of consumable spares for the Plant. Other spare parts and components shall be supplied as promptly as possible, but at the most within six (6) months of placing the order and opening the letter of credit. In addition, in the event of termination of the production of spare parts, advance notification will be made to the Employer of the pending termination, with sufficient time to permit the Employer to procure the needed requirement. Following such termination, the Contractor will furnish to the extent possible and at no cost to the Employer the blueprints, drawings and specifications of the spare parts, if requested.	Please clarify point-wise:  1) 6 months delivery is not possible for all equipments. We confirm prompt supply of spares within a reasonable period. Please accept.  2) Blueprints of spare parts are intellectual property of the manufacturers. We understand that only the non-IPR related drawings/as-built drawings need to be provided under this clause for the purpose of identification of spare parts. Please confirm.	As per SBD.
3	Section VIII General Conditions GC Clause 30.1.a) - Limitation of Liability	30.1 Except in cases of criminal negligence or willful misconduct: (a) neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract, other than specifically provided as any obligation of the Party in the Contract; and	Please modify the existing clause as mentioned below:  Except in cases of criminal negligence or willful misconduct: (a) neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, interruptions of operations or loss of use, loss of production, or loss of profits or interest costs, cost of capital, loss of power, and cost of purchased or replacement power, loss of information and data, and damages based on the customer's third party contracts which may be suffered by the other Party in connection with the Contract, other than specifically provided as any obligation of the Party in the Contract; and	SBD is final.

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4	Section VIII General Conditions  GC Clause 30 .1.b) - Limitation of Liability	30.1 Except in cases of criminal negligence or willful misconduct:  (b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier specified in the PC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.	<i>The Bidder requests that the Liability per event of occurrence shall be limited to USD 1 Mio. Total Liability of the project shall be limited to the Contract Value.</i>	SBD is final.
5	Section VII - General conditions - GC  clause No. 37.9-Force Majeure (New clause)	Export Reservation clause	There is always a risk of changes in the laws of countries importing the shipments. There is a need for capping the risk and cost implications attached with the levy of embargos on international movement of equipments and services therefore the Contractor requests for inclusion of clauses to mitigate the risks of these trade embargoes for the uniform and smooth execution of the projects. We request for the inclusion of a clause for reservation in the Tender documents. the same may be read as :  The contractor's obligation to fulfill this agreement is subject to the proviso that the fulfillment is not prevented by any impediments arising out of national and international foreign trade and customs requirements or any embargos or other sanctions.	As per SBD.
6	Section VIII - Particular conditions - PC  Clause 46- Land Availability	New Clause	The Bidder requests for the confirmation for the following :  a) the Land is already acquired by OPTCL b) encumbrance free land shall be provided by OPTCL at the time of the Order. C) effective date for the order shall be from the date of availability of land with the Contractor	As per SBD.
7	Section 9- Contract Agreement  Article- 3- Effective date	3.1 Effective Date (Reference GC Clause 1) : The Effective Date from which the Time for Completion of the Facilities shall be counted is the date when this Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor. The Employer undertakes to ensure that the conditions listed below in this Article 3 (Effective Date) shall all have been fulfilled within [insert number of months, normally two (2) months] after such effective date	Please modify the existing clause as mentioned below:  3.1 Effective Date (Reference GC Clause 1) : The Effective Date from which the Time for Completion of the Facilities shall be counted is the date when <del>this Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor. The Employer undertakes to ensure that the conditions listed below in this Article 3 (Effective Date) shall all have been fulfilled within [insert number of months, normally two (2) months] after such effective date.</del> the following activities are completed :  (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor; (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee; (c) The Employer has paid the Contractor the advance payment (d) The employer has established irrevocable letter of credit based on commitment letter issued from JICA/ donor agency for re-imbusement of payment to contractor full value of contract. (e) The Employer handed over clear and encumbrance free sites including necessary permits  Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.	As per SBD.

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8	Section IX Contract forms  Performance Security Form -Bank Guarantee Paragraph 6 & 7	..... Consequently, any demand for payment under this guarantee must be received by the Guarantor at its office on or before that date.  This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458, except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.	The Bidder requests for the modification of the said clause in the Performance Security Form - Bank Guarantee :  Consequently, any demand for payment under this guarantee must be received by the Guarantor at its office on or before that date <i>i.e.</i> ..... (expiry date)  This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. <del>458-758, except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.</del>  <u>This guarantee is to be returned to the Bank immediately on expiry. If the Bank does not receive the bank guarantee latest by the expiry date, it shall be deemed to be automatically cancelled.</u>	As per SBD.
9	Section IX Contract forms  Bank Guarantee Form for Advance Payment , Paragraph No. 6	This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.	The Bidder requests for the modification of the following clause in the Bank Guarantee Form for Advance Payment :  This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. <del>458-758</del>  <u>This guarantee is to be returned to the Bank immediately on expiry. If the Bank does not receive the bank guarantee latest by the expiry date, it shall be deemed to be automatically cancelled.</u>	As per SBD.
10	Section VII - General conditions - GC  GCC 7.3 Scope of Facilities	In addition to the supply of Mandatory Spare Parts included in the Contract, the Contractor agrees to supply spare parts required for the operation and maintenance of the Facilities for the period specified in the PC and the provisions, if any, specified in the PC.	Bidder requests for the modification of said clause as given below:  In addition to the supply of Mandatory Spare Parts included in the Contract, the Contractor agrees to supply spare parts, <u>or functionally equivalent spare parts</u> , required for the operation and maintenance of the Facilities for the period specified in the PC and the provisions, if any, specified in the PC.	As per SBD.
11	Section VII - General conditions - GC  GCC 26.2 Completion Time Guarantee	If the Contractor fails to attain Completion of the Facilities or any part thereof within the Time for Completion or any extension thereof under GC Clause 40, the Contractor shall pay to the Employer liquidated damages in the amount specified in the PC as a percentage rate of the Contract Price or the relevant part thereof.	Bidder request for confirmation that such liquidated damages would be levied on the contractor if the Contractor fails to attain completion of facilities or any part thereof within the Time of Completion for the reasons/delay caused by Contractors fault.  Contractor shall not be charged liquidated damages for the reasons that are not attributable to him	As per SBD.
12	Section VII - General conditions - GC  GCC 27.2 Defect liability, 2nd paragraph	..... If during the Defect Liability Period any defect should be found in the design, engineering, materials and workmanship of the Plant supplied or of the work executed by the Contractor, the Contractor shall promptly, in consultation and agreement with the Employer regarding appropriate remedying of the defects, and at its cost, repair, replace or otherwise make good as the Contractor shall determine at its discretion, such defect as well as any damage to the Facilities caused by such defect.	The Bidder understand that Bidder has discretion to determine the option to repair, replace or modify. In case of any defect. Bidder requests the modification of the clause as suggested below;  If during the Defect Liability Period any defect should be found in the design, engineering, materials and workmanship of the Plant supplied or of the work executed by the Contractor, the Contractor shall promptly, <del>in consultation and agreement with the Employer regarding appropriate remedying of the defects</del> , and at its cost, repair, replace or otherwise make good (as the Contractor shall, at its discretion, determine) such defect as well as any damage to the Facilities caused by such defect.	As per SBD.

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13	Section III. Evaluation and Qualification Criteria - Without Prequalification  Evaluation and Qualification Criteria - 1.2.2-Other Factors-Specific Additional Criteria	Maximum number of Members in a JV/Consortium for a Package is limited to Three (03) only.	The Bidder requests for addition of clauses for payment for the Consortium Members request you to confirm the following point wise :  a) Payments shall be provided by funding agency to each consortium member for their relevant scope and portion. b) Invoices on Employer will be raised by each consortium member for their respective scope of work separately. c) Payments shall also be released to each consortium member/partner bank account separately.	As per SBD.
14	Section III. Evaluation and Qualification Criteria - Without Prequalification  GCC clause 9.3 - Contractor's responsibilities	The Contractor shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Employer under GC Sub-Clause 10.3 hereof and that are necessary for the performance of the Contract.	The Bidder requests for the pointwise confirmation in the following :  a) Contractor shall be responsible for only those permits that has to be taken in his own name. b) Please clarify the approvals required to be taken by contractor. c) fees for all such approvals need to be paid by the Employer.	As per SBD.
15	Section VIII - Particular conditions - PC  PC 14.4 Taxes and duties	PC 14.4 - Any statutory variation due to revision in rate of existing Goods and Service Tax shall be paid or reimbursed based on the time of supply of Goods or Services or Both within the contractual period as per the GST Laws.	the bidder requests that in case of any changes in the taxes for GST during the execution of the project, on account of changes in the GST rates the same shall be considered by OPTCL.  Any change in the taxes shall be reimbursed to the Contractor by OPTCL with submission of documentary evidence	As per SBD.
16	Additional clause (PC)  External Consortium agreement Form	Additional Clause (External Consortium Agreement Form)	The Consortium Agreement format is not available in the Tender documents. The Bidder requests for the Format of Consortium Agreement for this bid.	Pl. follow the standard JV/Consortium format of OPTCL for other recent turnkry contracts
17	Additional clause (PC) POA for consortium	Additional Clause (Power agreement for consortium)	Power of attorney for consortium format is not available in the Tender documents. Kindly provide the same.	Pl. follow the Power of Attorney for standard JV/Consortium format of OPTCL for other turnkry contracts
18	Bid Data Sheets  Additional Clause B15 42.6 - Notification of Award		The Bidder requests to confirm pointwise :  a) A Single Lumpsum Turnkey Contract shall be awarded to the Bidder. b) GST rate as applicable is 18% c) BOCW cess shall be applicable only on the Installation & Civil works. d) BOCW shall be 1% of the Contract for Services Portion (exclusive of GST)	As per SBD.
19	1.2.2 Other Factors Section III. Evaluation and Qualification Criteria Following Prequalification	ii. Employer will assist to secure the ROW, getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body.	We understand that "to secure the ROW, getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body" shall be in scope of OPTCL please confirm our understanding.	OPTCL shall only assist the executing agency in getting the statutory clearances.All pertaining procedures are to be carried out by the EPC firm.
20	1.2.2 Other Factors Section III. Evaluation and Qualification Criteria Following Prequalification	ii. No credit will be given for earlier completion.	Both clause contradicts each other, we understand that Particular condition will prevail over Evaluation and Qualification Criteria - Following Prequalification and bonus will be provided for early completion. Please confirm.	Clause No. 1.2.2 (ii) of Section-III: Evaluation and Qualification Criteria - refers to evaluation of the tender. Clause No.: PC 26.3 of Section -VIII:

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	PC 26.3 Section VIII. Particular Condition	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		Particular Conditions of Contract;- refers to actual execution of the contract.
21	2.7 Sub-Contractor/Sub-Manufacturer:  Section III. Evaluation and Qualification Criteria - Following Prequalification	The Sub-Contractor and Sub-Vendor/Manufacturer engaged under the contract must meet the following criteria mentioned against Supply or Services as applicable against respective item.	We confirm OPTCL to supply the equipment as per Approve vendor list given in Appendix 5. Indicative List of Major Items of Plant and Installation Services and List of Approved Subcontractors and will provide the qualification documents during sub vendor approval after award of contract. Kindly accept the same.	As per SBD.
22	Appendix 5,  Section IX. Contract Forms	Indicative List of Major Items of Plant and Installation Services and List of Approved Subcontractors	We understand that bidder can propose additional vendor apart from given in approved list meeting qualification criteria as per 2.7 Sub-Contractor/Sub-Manufacturer; Section III. Evaluation and Qualification Criteria - Following Prequalification. Kindly confirm our understanding.	As per SBD.
<b>CRP SAS</b>				
1	General	CRP Panel Type	We understand the BCU based CRP is required not the conventional based, Please confirm.	As per technical specifications.
2	General	Spares List	Please confirm whether spares are to be supplied, if yes, please provide the list of spares.	As per BOQ and technical specifications.
3	SPECIFICATION FOR PROTECTION IED.	The relay shall have a built-in auto-reclose function with facilities for single pole / three pole / single and three pole tripping. It shall be possible to trigger the A/R function from an external protection	for 132kV Feeders, only three pole auto reclose/tripping is required. Kindly confirm	As per technical specifications.
4	SPECIFICATION FOR PROTECTION IED.	REF Protection	As per CRP BOQ in CRP TS, Electromechanical type High Impedance REF relay is to be provided. Please confirm CAG14 relay is acceptable.	As per technical specifications.
5	SPECIFICATION FOR PROTECTION IED.	Differential protection (Low Impedance type with 3 slope characteristic)	We understand that minimum 2 slope characteristic should also be acceptable. Kindly clarify	As per technical specifications.
6	SPECIFICATION FOR PROTECTION IED.	The REF function should be selected separately for each winding and programmable as either high or low impedance	We understand that separate electromechanical type relay with high impedance REF protection is required as per OPTCL BoQ. So this clause is not relevant and inbuilt REF function is not required.	As per technical specifications.
7	General	Distance Protection Characteristic	We understand that for 132kV Line Distance Protection only Quadrilateral Characteristic are required. Please confirm!	As per technical specifications.
8	XI SAS SPECIFICATION	Separate BCU / RTU for station auxiliaries shall be provided.	We propose to utilize RTU as a gateway for station auxiliaries. Kindly confirm.	As per technical specifications.
9	XI SAS SPECIFICATION	2300mm (H) X 900mm (D) X 900mm (W), 1 No. per line	Requirement is mentioned for non standard sized panel. We shall supply standard size panel of 2315 (H) X 800 (W) X 900 (D). Please confirm your acceptance	As per technical specifications.
10	XII/6/A/3 SAS SPECIFICATION	Each IED should contain an event recorder capable of storing at least 200 time-tagged events. This shall give alarm if 70% memory is full.	Kindly note that event buffer of relay always remains full and new event will be updated on first-in-first-out basis. So this alarm requirement is not relevant.	As per technical specifications.
11	XIV/G/g SAS SPECIFICATION	Surface-mount technology (SMT) should be used for printed circuit boards (PCB) of BCU. Further a conformal coating should be applied to the PCB for ensuring optimum performance under the toughest environment conditions.	Siemens BCUs are harsh environment tested as per IEC 60068-2-60 (HEC). Additional coating is not required for Siemens relays. Kindly accept the same	As per technical specifications.
12	XIV/G/g/ii SAS SPECIFICATION	The module should have two optical ports with ST/LC connectors & Ethernet electrical RJ 45 connector in PRP mode based on SAS design requirement.	As the requirement is for control room based arrangement, we suggest to provide the Ethernet ports RJ45 in PRP mode. Please confirm.	As per technical specifications.
13	XIV/G/g/ii SAS SPECIFICATION	Transmission rate-1000Mbit, Ethernet Electrical—RJ45, Test Volt-500V AC against ground. Distance Max. 20meter.	Ethernet ports in BCUs & BCPUs operate over 10/100Mbps. Kindly confirm.	As per technical specifications.
14	XIV/G/g/ii SAS SPECIFICATION	External Time Synchronization from IRIG B BNC plug, Amplitude modulated/Ethernet SNTP Time Server (<1ms accuracy)	As requirement is of IEC61850 based system and for this time synchronization is achieved over SNTP. Hence IRIG-B port shall not be required. Kindly confirm!	As per technical specifications.
15	XIV/G/g/ii SAS SPECIFICATION	No of Binary Input : 28 Nos. for 132kV & 220kV System and 48 Nos. for 400kV System.	Same shall be as per scheme requirement considering GIS type switchgear. Please confirm your acceptance	As per technical specifications.
16	XIV/G/g/ii SAS SPECIFICATION	8 insulated transducer input (-20mA to +20mA) values on 8 independent galvanic-isolated channels. This means that there is no common point of contact between two analogue inputs. Each analogue input can be configured in the current range or voltage range.	Analog inputs shall be required only in case of transformer bays. Hence we shall be offering AI only in transformer feeders. Kindly confirm.	As per technical specifications.


  
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17	XIV/G/g/ii SAS SPECIFICATION	24 Nos. for 220kV and 32Nos. for 400kV system.	Same shall be as per scheme requirement considering GIS type switchgear. Kindly accept the same.	As per technical specifications.
18	XIV/G/g/ii SAS SPECIFICATION	Storage of events up to 2000 in RDM.	As station is SAS based without limitation on event storage so we will be offering BCU with an event buffer of 200 events. Kindly confirm.	As per technical specifications.
19	XIV/G/g/ii SAS SPECIFICATION	4 X 10/100 Base T (RJ-45) ports+2X10/100 Base Switches Fx (optical) ports for redundant Ethernet network in PRP.	We shall be offering BCUs & BCPUs with 2 nos. RJ45 ports over PRP. Kindly confirm.	As per technical specifications.
20	XIV/G/g/ii SAS SPECIFICATION	1 X RS232 and 3 X RS485 can support IEC 103 Modbus, should be s/w configurable.	We shall be offering BCUs & BCPUs with 2 nos. RJ45 ports on IEC61850 over PRP. Hence ports over legacy protocols shall not be required. Kindly confirm.	As per technical specifications.
21	XIII TenderSpecification	Technical Parameters of Gateway 1. Power supply : 230 V + / - 10 V , 50 Hz AC 2. Processor Type : Intel Pentium D 820 Processor, 2.8 GHz or Higher Standard 1.2 GB, 800 MHz front side bus Intel R1208G24G, 1U	We shall be offering a RTU based gateway as per SAS Specification and not a PC based gateway. Kindly confirm.	As per technical specifications.
22	XIV/F TenderSpecification	The bidder shall keep provision of 100% spare capacity for employer use.	We propose 20% spare ports in Ethernet Switches. Kindly accept the same	As per technical specifications.
23	XIV/F TenderSpecification	One switch shall be provided to connect all IEDs housed in respective kiosk.	We propose 1 pair Ethernet switches shall be used to integrate all IEDs of 3 bays of 132kV and 1 pair of Ethernet Switches to integrate all IEDs of 33kV. Please confirm	As per technical specifications.
24	TenderSpecification	IEC61850-9 Process Bus	We understand there is no requirement of process bus hence IEC61850-9 is not applicable. Please confirm.	As per technical specifications.
25	BoQ TenderSpecification	50 Inch Display	We understand the only 1 no. large screen of 50 inch is required, not the 4x2 matrix as per TS of LV5. Please confirm!	As per BOQ & technical specifications.
26	BoQ Tender BoQ	Item wise breakup is given in the schedule	We recommend to have Control And relay Panel based BoQ containing all the equipments as per the CRP TS instead of material wise BoQ to avoid any mismatch of requirement later with the TS.	As per amended BOQ
27	BoQ Dedicated RTU	In BoQ a dedicated RTU have been asked, while there is substation automation system is also required.	Since there is already a SAS is being asked, a separate RTU may not be required, please clarify.	As per amended BOQ
<b>33kV Circuit Breaker</b>				
1	Technical Specification, 33kV Circuit Breaker	Technical Specification 1.03.13	Dry one minute power frequency withstand test voltage between line terminal as well as between line and body shall be 70kVrms. The same is in line as per IEC 6227-100. Request you to kindly accept the same.	As per technical specifications.
2	Technical Specification, 33kV Circuit Breaker	Technical Specification 1.03.15	Dry one minute power frequency voltage as well as wet one minute power frequency voltage of Insulator/Bushing shall be 70kVrms. The same is in line as per IEC 6227-100. Request you to kindly accept the same.	As per technical specifications.
3	Technical Specification, 33kV Circuit Breaker	Technical Specification Climatic Conditions	The OVCB is designed for maximum relative humidity of 95%. The same is in line as per IEC 6227-100. Request you to kindly accept the same.	As per technical specifications.
4	Technical Specification, 33kV Circuit Breaker	Technical Specification Climatic Conditions/Topographical and Meteorological Site Conditions	Maximum wind pressure of the offered OVCB shall be 150 kg/5q.m. Request you to kindly accept the same.	As per technical specifications.
5	Technical Specification, 33kV Circuit Breaker	Technical Specification 1.12.3	The closing and operating coils are designed to operate satisfactorily at any control voltage from 70% to 110% of the normal rated voltage. The same is in line as per IEC 6227-100. Request you to kindly accept the same.	As per technical specifications.
6	Technical Specification, 33kV Circuit Breaker	Technical Specification 1.16.i	Minimum clearance between phases of the OVCB shall be 360 +/- 5 mm. The OVCB is designed and tested as per IEC 62271-100. Request you to kindly accept the same.	As per technical specifications.
7	Technical Specification, 33kV Circuit Breaker	Technical Specification 1.16.iv	Minimum ground clearance to live part shall be 3700mm subject to plinth height of 1050mm. Kindly note that plinth is not in our scope. Request you to kindly accept the same.	As per technical specifications.
<b>220kV Circuit Breaker</b>				
1	4.0 (16) Technical Specification for 220kV Circuit Breaker	Max. closing time(ms) 60	Max. closing time will be 80 ms. Kindly accept the same.	As per technical specifications.
2	4.0 (17) Technical Specification for 220kV Circuit Breaker	Max. BREAK TIME (ms) 50	For the offered 245kV CB, Maximum opening time is 37 ± 4 ms. Total break time will be 60 ms (Max.). Kindly accept the same.	As per technical specifications.
4	5.8 Technical Specification for 220kV Circuit Breaker	Terminal pads shall have silver plating of atleast 50 microns thickness.	The terminal pads are made up of Aluminium alloy, therefore silver coating is not applicable.	As per technical specifications.
5	5.9.2 Technical Specification for 220kV Circuit Breaker	Main contacts shall be first to open and the last to close so that there will be little contact burning and wear. If arcing contacts are used they shall be first to close and the last to open. Tips of arcing contacts and main contacts shall be silver plated or made of superior material like graphite.	Main contacts will be adequately silver coated. Arcing contacts are made up of highly resistive material i.e. Copper tungsten alloy. Silver coating is not applicable for arcing contacts.	As per technical specifications.

  
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6	5.11 (f) Technical Specification for 220kV Circuit Breaker	Means for pressure relief shall be provided in the gas chamber of circuit breaker to avoid the damages or distortion during occurrence of abnormal pressure increase or shock waves generated by internal electric fault occurs. The position of vents, diaphragms and pressure relief devices shall be so arranged as the minimize danger to the operators in the event of gas or vapour escaping under pressure.	Pressure relief arrangement is not provided for the gas chambers /poles. Maximum pressure rise in chamber insulators is approx. 40 Bar at short circuit fault current 40kA. Our chamber insulator is type tested for more than 50 bar pressure to ensure the design parameter. Thus pressure relief arrangement is not required hence not provided. Kindly accept the same	As per technical specifications.
7	5.11 (h) Technical Specification for 220kV Circuit Breaker	Sufficient SF6 gas shall be provided to fill all the circuit breakers installed. In addition to this 20% of the total gas requirement shall be supplied in separate cylinders as spare requirement.	20% extra gas shall be supplied in the same cylinder which is sent with every breaker & meant for first filling during installation. Kindly accept the same	As per technical specifications.
8	5.16.2 Technical Specification for 220kV Circuit Breaker	The entire operating mechanism control circuitry etc as required, shall be housed in an outdoor type, with Aluminium alloy enclosure(minimum 3mm thickness).	Enclosure of operating mechanism is supported by the base frame of poles & CB structure. Kindly accept the same	As per technical specifications.
9	5.16.8 Technical Specification for 220kV Circuit Breaker	The Breaker shall have spare auxiliary switches for Owners use (i.e. for interlocking, indication, contacts to main and back up relay etc). A minimum of 20 N/O(52a) & 20 N/ C (52b) spare auxiliary switch contacts should be provided.	Auxiliary switch has total 20 NO + 19 NC contacts. Out of these contacts, 10 NO + 10 NC have been considered as spare for Purchaser's use. Kindly accept the same	As per technical specifications.
10	5.17.5 Technical Specification for 220kV Circuit Breaker	Closing coil shall operate correctly at all Values of voltage between 85% and 110% of the rated voltage. Shunt trip shall operate correctly under all operating conditions of the circuit breaker upto the rated breaking capacity of the circuit breaker and at all values of supply voltage between 70% and 110% of rated voltage. However, even at 50% of rated voltage, the breaker shall be able to perform all its duties. If additional elements are introduced in the trip coil circuit their successful operation and reliability for similar applications on outdoor circuit breakers shall be clearly brought out in the additional information schedules.	Operating range of Trip coils is 70% to 110% & closing coil is 85% to 110% of the rated control voltage. This is in line with IEC 60694, clause 5.8.2. Kindly accept the same	As per technical specifications.
11	5.21 (3) Technical Specification for 220kV Circuit Breaker	The minimum clearance between the live parts and earth shall be 3.5 mtrs for 400kV, 2.4 mtrs for 245 KV and 1.5 meters for 145 KV.	We would like to inform that the phase to earth clearance for 245kV breaker is 1900 mm. Adequacy of this clearance is proven by the dielectric tests as per IEC 62271-100 successfully withstood by our offered CB. Kindly accept the same	As per technical specifications.
12	5.22.1 (a) vi. Technical Specification for 220kV Circuit Breaker	Fuses as required.	We have envisaged MCBS in place of fuses, wherever applicable. Kindly accept the same	As per technical specifications.
13	5.23 Technical Specification for 220kV Circuit Breaker	PAINTING, GALVANISING AND CLIMATE PROOFING	We would like to inform that the operating mechanism enclosure is made of Aluminium. Therefore, we have not envisaged any painting/coating on the same. Kindly accept the same	As per technical specifications.
14	6.1.1 Technical Specification for 220kV Circuit Breaker	11 TESTS	EMC test is not applicable since offered design is not based on/comprising of any major electronic component as a functioning part, which requires electromagnetic compatibility for proper functioning.	As per technical specifications.
15	6.1.1 Technical Specification for 220kV Circuit Breaker	TESTS	Tightness test in routine testing will be a gas leakage test.	As per technical specifications.
16	6.1.1 Technical Specification for 220kV Circuit Breaker	TESTS	We would like to inform that the offered breaker is capable of breaking small inductive currents (Magnetizing currents of no-load transformers) of 0.5A to 10A with max. over voltage <=2.5 p.u.	As per technical specifications.
<b>132k Circuit Breaker</b>				
1	4.0 (7) Technical Specification for 132kV Circuit Breaker	Phase to phase spacing in the switchyard i.e. interpole spacing for breaker (mm) $\geq 150$	Phase to phase spacing (pole center to pole center) for the offered 145kV CB is 1700 mm. Adequacy of this clearance is proven by dielectric tests as per IEC 62271-100 successfully withstood by our offered CB. Kindly accept the same.	As per technical specifications.
2	4.0 (12) Technical Specification for 132kV Circuit Breaker	Autoreclosing duty - Single Phase	Offered 145kV CB has 3 poles mechanically gang operated with a common operating mechanism. Hence it is suitable for 3 phase Autoreclosing. Single phase Autoreclosing is not applicable for 145kV CB. Kindly accept the same	As per technical specifications.
3	4.0 (16) Technical Specification for 132kV Circuit Breaker	Max. closing time(ms) 60	Max. closing time will be 55+/- 8 ms at Rated Voltage. Kindly accept the same.	As per technical specifications.
4	4.0 (17) Technical Specification for 132kV Circuit Breaker	Max. BREAK TIME (ms) 30 $\pm$ 4	For the offered 145kV CB, Maximum opening time is 30 $\pm$ 4 ms. Total break time will be 60 ms (Max.) Kindly accept the same.	As per technical specifications.


  
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Sl. No.	Reference Document	Existing clause	Comments/Clarification	OPTCL REPLY
5	5.3.3 Technical Specification for 132kV Circuit Breaker	One central control cabinet for each breaker and one control box for each pole with all the required electrical devices mounted therein and the necessary terminal blocks for termination of interpole wiring. The necessary interpole cabling at site shall be done by the Purchaser based on the schematic, wiring diagram and termination schedule to be supplied by the Supplier.	Offered 145kV CB has 3 poles mechanically gang operated with a common operating mechanism.	As per technical specifications.
7	5.8 Technical Specification for 132kV Circuit Breaker	Terminal pads shall have silver plating of atleast 50 microns thickness.	The terminal pads are made up of Aluminium alloy, therefore silver coating is not applicable.	As per technical specifications.
8	5.9.2 Technical Specification for 132kV Circuit Breaker	Main contacts shall be first to open and the last to close so that there will be little contact burning and wear. If arcing contacts are used they shall be first to close and the last to open. Tips of arcing contacts and main contacts shall be silver plated or made of superior material like graphite.	Main contacts will be adequately silver coated. Arcing contacts are made up of highly resistive material i.e. Copper tungsten alloy. Silver coating is not applicable for arcing contacts.	As per technical specifications.
9	5.11 (d) Technical Specification for 132kV Circuit Breaker	Each pole shall form an enclosure filled with SF6 gas independent of two other poles. The SF6 density of each pole shall be monitored and regulated by individual pressure switches.	The requirement of 145kV CB calls for mechanically gang operated breaker where three poles mechanically gang operated with a common operating mechanism. SF6 gas pressure in all three poles is maintained almost at same level with the help of common gas link of proven design which has a temperature compensated SF6 gas density monitor common for all 3 poles.	As per technical specifications.
10	5.11 (f) Technical Specification for 132kV Circuit Breaker	Means for pressure relief shall be provided in the gas chamber of circuit breaker to avoid the damages or distortion during occurrence of abnormal pressure increase or shock waves generated by internal electric fault occurs. The position of vents, diaphragms and pressure relief devices shall be so arranged as the minimize danger to the operators in the event of gas or vapour escaping under pressure.	Pressure relief arrangement is not provided for the gas chambers /poles. Maximum pressure rise in chamber insulators is approx. 40 Bar at short circuit fault current 40kA. Our chamber insulator is type tested for more than 50 bar pressure to ensure the design parameter. Thus pressure relief arrangement is not required hence not provided. Kindly accept the same.	As per technical specifications.
11	5.11 (h) Technical Specification for 132kV Circuit Breaker	Sufficient SF6 gas shall be provided to fill all the circuit breakers installed. In addition to this 20% of the total gas requirement shall be supplied in separate cylinders as spare requirement.	20% extra gas shall be supplied in the same cylinder which is sent with every breaker & meant for first filling during installation. Kindly accept the same.	As per technical specifications.
12	5.16.2 Technical Specification for 132kV Circuit Breaker	The entire operating mechanism control circuitry etc as required, shall be housed in an outdoor type, with Aluminium alloy enclosure (minimum 3mm thickness).	Enclosure of operating mechanism is supported by the base frame of poles & CB structure. Kindly accept the same.	As per technical specifications.
13	5.16.8 Technical Specification for 132kV Circuit Breaker	The Breaker shall have spare auxiliary switches for Owners use (i.e. for interlocking, indication, contacts to main and back up relay etc). A minimum of- 20 N/O (52a) & 20 N/ C (52b) spare auxiliary switch contacts should be provided.	Auxiliary switch has total 20 NO + 19 NC contacts. Out of these contacts, 10 NO + 10 NC have been considered as spare for Purchaser's use. Kindly accept the same.	As per technical specifications.
14	5.17.2 Technical Specification for 132kV Circuit Breaker	Each breaker pole shall be provided with two (2) independent tripping circuits, valves and coils each connected to a different set of protective relays.	The requirement of 145kV CB calls for mechanically gang operated breaker where three poles mechanically gang operated with a common operating mechanism. Therefore, 2 trip coils will be per breaker. (& not for per pole). Kindly accept the same.	As per technical specifications.
15	5.17.5 Technical Specification for 132kV Circuit Breaker	Closing coil shall operate correctly at all Values of voltage between 85% and 110% of the rated voltage. Shunt trip shall operate correctly under all operating conditions of the circuit breaker upto the rated breaking capacity of the circuit breaker and at all values of supply voltage between 70% and 110% of rated voltage. However, even at 50% of rated voltage, the breaker shall be able to perform all its duties. If additional elements are introduced in the trip coil circuit their successful operation and reliability for similar applications on outdoor circuit.	Operating range of Trip coils is 70% to 110% & closing coil is 85% to 110% of the rated control voltage. This is in line with IEC 60694, clause 5.8.2. Kindly accept the same.	As per technical specifications.
16	5.21 (3) Technical Specification for 132kV Circuit Breaker	The minimum clearance between the live parts and earth shall be 3.5 mtrs for 400KV, 2.4 mtrs for 245 KV and 1.5 meters for 145 KV.	We would like to inform that the phase to earth clearance for 145kV breaker is 1750 mm. Adequacy of this clearance is proven by the dielectric tests as per IEC 62271-100 successfully withstood by our offered CB. Kindly accept the same.	As per technical specifications.
17	5.22.1 (a) vi., i) Technical Specification for 132kV Circuit Breaker	Fuses as required.	We have envisaged MCBs in place of fuses, wherever applicable. Cable Gland is not in the scope of Siemens. Kindly accept the same.	As per technical specifications.

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Sl. No.	Reference Document	Existing clause	Comments/Clarification	OPTCL REPLY
18	5.23 Technical Specification for 132kV Circuit Breaker	PAINTING, GALVANISING AND CLIMATE PROOFING	We would like to inform that the operating mechanism enclosure is made of Aluminium. Therefore, we have not envisaged any painting/coating on the same. Kindly accept the same	As per technical specifications.
18	6.1.1.11 Technical Specification for 132kV Circuit Breaker	TESTS	EMC test is not applicable since offered design is not based on/comprising of any major electronic component as a functioning part, which requires electromagnetic compatibility for proper functioning.	As per technical specifications.
19	6.1.1.3 Technical Specification for 132kV Circuit Breaker	TESTS	Tightness test in routine testing will be a gas leakage test.	As per technical specifications.
20	6.1.1 Technical Specification for 132kV Circuit Breaker.	TESTS	We would like to inform that the offered breaker is capable of breaking small inductive currents (Magnetizing currents of no-load transformers) of 0.5A to 10A with max. over voltage <=2.5 p.u.	As per technical specifications.
<b>ISOLATOR</b>				
1	Cl. 4 Technical Specification for Isolator	Suitable arcing horn made of tinned electrolytic copper which are required for guiding contacts shall be provided on the fixed and moving contact of all isolator. the contact shall be "make before & break after" type.	Arcing horn shall be "make before & break after" type contact. It has to withstand arc during opening & closing of contact. Therefore the offer arcing horn shall be of G.I. rod instead of tinned electrolytic copper as per specification. Kindly confirm your acceptance	As per technical specifications.
<b>CVT</b>				
1	Technical Specification for CVT	Clause 3.2	Offered CVTs shall be in line with IEC 61869-5/1. Kindly confirm your acceptance	As per technical specifications of the respective type.
2	Technical Specification for CVT	Type Tests	Thermal Stability test, Thermal Co-efficient test, fast Transient Test, Magnetization and Internal Burden Tests is not applicable as per IEC 61869-5. Kindly confirm your acceptance	As per technical specifications of the respective type.
3	Technical Specification for CVT	Type Tests	In Mechanical type testing, load will be applied to CVT H V terminal & not on bushing as per IEC. Kindly confirm your acceptance	As per technical specifications.
4	Technical Specification for CVT	Cl. 8.1. NB.1	As per IEC manufacturer can select either one specimen or two specimen. Due to unavailability of complete test set up at third party, we conducted on two specimen. Kindly confirm your acceptance	As per technical specifications.
5	Technical Specification for CVT	Routine Tests	All the Routine tests for the offered CVTs shall be as per IEC 61869-5. Kindly confirm your acceptance	As per technical specifications of the respective type.
6	Technical Specification for CVT	Appendix, Point no 25	RIV value shall be less than 1000 micro volts which is much less than IEC requirement. Kindly confirm your acceptance	As per technical specifications.
7	Technical Specification for CVT	BOQ	Capacitance, voltage ratio & secondary winding parameters are customer specific and depend upon the system parameters as well. CVT construction consists of capacitor units and EMU boxes. The capacitor units comprise of porcelain housing & capacitor stacks which are built up of capacitive dielectric medium.  For a given voltage class, a said model is built which has a specific height and arcing distance of porcelain with a specific internal diameter. Different capacitance values are achieved in this said model by use of Al foil, PP film and paper configuration mixed with oil.  This model is type tested for a specific capacitance & voltage ratio. Different capacitance and voltage ratio can be achieved in this said model using the same dielectric configuration, same arcing distance and porcelain height & basic EMU core configuration.	Query unclear.
<b>Electrical</b>				
1	General		We understand that the all quantity specified in price bid is indicative only and we have not cross verified the price schedule quantity. Any increase or reduction of final quantity w.r.t tender stage quantity shall be amended accordingly.	As per SBD.
7	General	220V & 48V Battery & Battery Charger	we understand that the rating of Battery & Charger is indicative only and we have not cross verified the rating. Any increase or reduction of final rating w.r.t tender stage rating shall be amended accordingly.	As per technical specifications and BOQ.

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Sl. No.	Reference Document	Existing clause	Comments/Clarification	OPTCL REPLY
3	General		Bidder requests OPTCL to provide the tender purpose drawing (SLD, OGA, Layout Section etc) of 220/132/33kV Gunupur S/S & 132/33kV Bahugram S/S for estimation purpose & also identify the proper location/area.	Only indicative SLD is provided for the sub-stations. Rest are in bidder's scope.
4	Price Schedule/Supply/12.0 132/33kV AIS Bahugram Substation under OPTCL	33kV VCB	As per Vol 1 part 2, 7 Nos 33kV Bays (4 Nos Feeder Bays, 2 Nos Trafo Bays & 1 No Bus coupler) are shown. But as per Price List, 8 Nos are mentioned. Please confirm the actual qty for 33kV VCB.	As per Amendd BOQ.
5	Bid Price Schedule	Mismatch in quantity Schedule No. 1. Plant Supplied from Abroad and supply Schedule No. 2. Plant Supplied from Within the Employer's Country.	There are difference in quantity and items mentioned for supply Schedule No. 1. Plant Supplied from Abroad and supply Schedule No. 2. Plant Supplied from Within the Employer's Country. As per our understanding quantity & items for both the schedule must be same.  Request you to kindly correct the same.	As per Amendd BOQ.
6	Bid Price Schedule	Mismatch in quantity Schedule No. 1. Plant Supplied from Abroad, supply Schedule No. 2. Plant Supplied from Within the Employer's Country and Schedule No. 4. Installation and Other Services	There are difference in quantity and items mentioned for Schedule No. 1. Plant Supplied from Abroad, supply Schedule No. 2. Plant Supplied from Within the Employer's Country and Schedule No. 4. Installation and Other Services. As per our understanding quantity & items for both the schedule must be same.  Request you to kindly correct the same.	As per Amendd BOQ.
7	Bid Price Schedule	List of spares	As per bid price schedule there are no list of spares provided. We understand that same is not required. If required, kindly include the same in bid price schedule.	As per BOQ.
8	5.4.24 Technical Specification - Power Transformer	List of mandatory spares for entire lot of transformer	We understand that price of spares shall be included with the transformer price and same set of spares are required for each location (Gunupur and Bahugram). Please confirm our understanding.	YES, as per TS of Transformer.
9	1.2.1 v) Section III, Evaluation and Qualification Criteria - Following: Prequalification	v. Loss capitalization of the Transformers shall not be considered for evaluation.	Both the referred clause contradict each other, kindly confirm whether capitalisation will be applicable for Transformer or not. If not applicable please provide value of guaranteed loss for each rating of transformer.	Limitation of Transformer Losses for different Transformer ratings uploaded.
	5.2.0 Technical Specification - Power Transformer	Loss figure for evaluation of bid		
10	Section VI, Employer's Requirements	132/33kV Grid AIS Substation at Bahugram (Attoda) 2x40 MVA Trf	Rating of transformer different in scope & bid price schedule. We understand that rating given in Bid price schedule will prevail. Please confirm.	As per Amendd BOQ.
	Bid price Schedule 1 & 2 132/33kV Grid AIS Substation at Bahugram	POWER TRANSFORMER 132/33 KV, 20 MVA (AS PER SPECIFICATION)		
11	Bid price Schedule 1 & 2 132/33kV Grid AIS Substation at Bahugram	Apex meter panel	Kindly provide the specification for Apex meter panel	Not in scope
12	31.2 Bid price Schedule 1 & 2 Gunupur	DCDB	we understand that referred item is required for 48 V DCDB. Please confirm.	Yes for Sl.No.30.13
13	17.11 Bid price Schedule 1 & 2 132/33kV Grid AIS Substation at Bahugram	DCDB	we understand that referred item is required for 48 V DCDB. Please confirm.	Yes for Sl.No.17.11
14	Technical specification and Bid price schedule		We understand that in case of discrepancy in rating of equipment in technical specification and bid price schedule, rating mention in bid price schedule shall prevail. Please confirm.	Yes.
<b>Civil</b>				
103	Proposed SWYRD	Land	We understand that the proposed switchyard land has been acquired by M/s.OPTCL and same shall be handed over to us at the time of Notification of award. Please confirm.	Encumbrance free project land will be handed over to the bidder in the event of successful award of the contract.. Bidders are requested to visit the proposed sites before submitting their bids.
104	Proposed SWYRD	Soil investigation report	We request M/s.OPTCL to provide us the preliminary soil report of the proposed SWYRD in order to ascertain the soil strata of the SWYRD. Kindly confirm	Bidder's Scope.

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Sl. No.	Reference Document	Existing clause	Comments/Clarification	OPTCL REPLY
123	Drawing	CONTROL ROOM BUILDING	Request you to provide drawing for control room building for reference.	Bidder's Scope.
123	Drawing	D & E Type quarter	Request you to provide drawing for D & E Type quarter	Bidder's Scope.
Sl. No.	Description	Remark	OPTCL REPLY	
A	COMMERCIAL			
1	Please clarify the items on which Price Variation is applicable and also kindly provide us PV Formula for the same.	Please Clarify item wise and Provide the Formula for the same	Price Adjustment shall be made as per the Appendix-2, CF-14, Section-IX, Contract Form of Vol-I of III of Standard Bidding Document	
2	Kindly provide us the format of Joint Venture Agreement & Power of Attorney of Joint Venture	Format not available in the Bid Document, please provide	Pl. follow the standard JV/Consortium format of OPTCL for other recent turnkey contracts	
3	As per Clause No. 1.2.2 (ii) of Section-III: Evaluation and Qualification Criteria - Without Prequalification It is specified as "No credit will be given for earlier completion." However, as per Clause No.: PC 26.3 of Section -VIII: Particular Conditions of Contract; Bonus for Early completion is applicable.	Please Clarify	Clause No. 1.2.2 (ii) of Section-III: Evaluation and Qualification Criteria - refers to evaluation of the tender. Clause No.: PC 26.3 of Section -VIII: Particular Conditions of Contract;- refers to actual execution of the contract.	
4	Please provide us with the IFSC, Bank Account Details of the Employer to be required for issue of Bid Security Bank Guarantee	Bank Detail require	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	In Schedule-6 (GS) - There is a provision for to mention the Schedule-5 (Provisional Sums), However Schedule-5 is not available in the Tender Specification and also in BOQ	Please Clarify	Schedule-5 (Provisional Sums)- is not applicable for this tender package.	
B	SUBSTATION			
1	Discrepancy in Quantity in Schedule1(Plant Supplied from Abroad (Sub-station )) and Schedule-2 Plant Supplied from			
a	145 KV,1250A,31.5KA D/N Without ES	Quantity mismatched	Amended BOQ uploaded in OPTCL website.	
b	120 kV Metal oxide Surge Arrestor, 10 KA, Class III	Quantity mismatched	Amended BOQ uploaded in OPTCL website.	
c	220kV,132kV and 33kV Hardware & Fittings	Quantity & Item mismatched	Amended BOQ uploaded in OPTCL website.	
d	Tclamp for ACSR Moose run to IPS 4" Aluminium Pipe Item is missing in Schedule 2	Item Missing in Schedule-2	Amended BOQ uploaded in OPTCL website.	
e	220kV, 132kV and 33kV Clamps & Connectors	Quantity mismatched	Amended BOQ uploaded in OPTCL website.	
f	Earthing Spike of all types	Quantity mismatched	Amended BOQ uploaded in OPTCL website.	

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Sl. No.	Reference Document	Existing clause	Comments/Clarification	OPTCL REPLY
g	G.1 Cable Trays(size: 150x75x2500mm)		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
h	S/Y AC Console for Lighting and S/Y Receptacle board for TFR Oil Filtration		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
i	Fax Machine Item is missing in Schedule-2		Item Missing in Schedule-2	Amended BOQ uploaded in OPTCL website.
j	Trip Circuit Supervision Relat 4		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
k	Battery Charger for 220V,350 AH Plante Type Battery (Float and Float Cum Boost)		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
2	In Schedule-4 Equipment Structure quantities are mismatch with individual SS quantity and Total Quantity for 220/132/33 SS at gunupur		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
3	Discrepancy in Quantity in Schedule-2(Plant Supplied from Within the Employer's Country (Sub-station )) and			
i	In Schedule-4 NCTs (8Nos) Equipment Structure quantities is there where as in Supply Schedule-2 is not available		Item Missing in supply Schedule-2	Supply of NCTs are within the scope of transformer manufacturer. Pl. refer TS of Transformers.
ii	120 kV Metal Oxide Surge Arrestor, 10 KA, Class III		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
iii	132 KV Bus Post Insulators		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
iv	36 KV Class NCT Equipment are available in Schedule-4 but not available in schedule-2		Item Missing in supply Schedule-2	Amended BOQ uploaded in OPTCL website.
v	Earthing Spikes of 5 mtr long		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
vi	One Item, Providing and supplying all labour, material, equipments etc. required for PIPE TYPE earthing by using Pipe-in-Pipe earthing electrode in order to minimize the earth resistance OF THE SWITCH-YARD below 0.5 OHM. Is available in		Item Missing in supply Schedule-2	Amended BOQ uploaded in OPTCL website.
vii	G.1 Cable Trays(size: 150x75x2500mm)		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
viii	Switch yard Receptacle Board for TFR Oil Filtration		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
ix	Apex Metre Panel with metres is available in Schedule-4 but not available in Schedule-2		Quantity mismatched & also Specification for the said item not available	Amended BOQ uploaded in OPTCL website.
x	Power Cable		Quantity mismatched due to one row has been shifted below.Also unit and Quantity for XLPE 3.5 CX400 mm1 in Schedule-4 is missing	Amended BOQ uploaded in OPTCL website.
xi	220kV Level Trip Circuit Supervision Relay 4		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
xii	BATTERY CHARGER FOR 220 V, 350 AH (Float and Float cum Boost)		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
xiii	WATER COOLER WITH WATER PURIFIER SYSTEM		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
4	Discrepancy in Quantity in Schedule1(Plant Supplied from Abroad (Sub-station )) and Schedule-2(Plant Supplied from Within the Employer's Country (Sub-station))-132/33kV SS Bahugram			Amended BOQ uploaded in OPTCL website.
i	145KV, 3150A, 40KA, 5F6, CIRCUIT BREAKER WITH SUPPORTING STRUCTURE		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
ii	36 KV Class NCT Equipment are available in Schedule-4 but not available in schedule-2		Item Missing in supply Schedule-2	Amended BOQ uploaded in OPTCL website.
iii	36 KV,1250A,25KA,0/I with Single Earth Switch Isolator		Quantity mismatched	Amended BOQ uploaded in OPTCL website.
5	0.2 class ABT Complaint Apex energy Meter is available in Erection Schedule-4 but not in Supply Schedule-2		Item Missing in supply Schedule-2	Amended BOQ uploaded in OPTCL website.
6	In OPGW System Erection Schedule-4, 48 Fibre Optic Approach cable is mentioned but in Supply Schedule-2 it is given 24 Fibre Optic Approach cable and also Kindly provide the format of GTP for 48 Fibers OPGW as GTP mentioned in Technical		Fibre Optic Approach cable Type mismatch	Amended BOQ uploaded in OPTCL website.
7	TRANSFORMER			
i	At 132/33kV SS at Bahugram, In both supply Price Schedule-1 & 2 Transformer rating is given as 132/33 KV, 20 MVA where as in Erection schedule it is given as 132/33 KV40 MVA,please clarify the Actual Transformer rating.		Clarification about Transformer rating	Amended BOQ uploaded in OPTCL website.
ii	Technical Specification for 132/33 KV40 MVA is missing in Bidding Documents		Technical Specification required	uploaded

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Sl. No.	Reference Document	Existing clause	Comments/Clarification	OPTCL REPLY
iii	At Gunupur 55 technical Specification for 220/132kV Power Transformer is not available where as TS for 220/132/33kv power Transformer is available		Technical Specification required for 220/132kV Power Transformer	It is the same specification as 33KV in 220/132kv transformer is the tertiary winding.
iv	Kindly clarify in which schedule the Details of Transformer Losses is to be given as upon checking the Bidding Forms the We understand that Transformer Losses as per Specifications are required to be submitted in tender stage. However, Transformer Losses Capitalization shall not be considered in Price Evaluation. Kindly confirm.		Please clarify	Already uploaded
v	Regarding Transformer Fire Protection system is not mentioned in TS, Please confirm about Fire Protection system of In Volume-III of III(Part-II), it is mentioned that all mentioned GTPs are filled by the Bidders with Technical Bid		As per Cl. No. 5.2.0 Auto Transformer, Transformer losses to be declared in the Bid but the said format is not available in Bid Document	Already uploaded
vi			Please confirm regarding fire Protection System of Power Transformer	As per BOQ.
8			Whether it is mandatory to fill all GTPs in Tender Stage	As per SBD.
9	In Vol-II(TS) E35- Fiber Optic Terminal Equipment page no.25 it is mentioned that QUALIFICATION REQUIREMENTS FOR FOTE SYSTEM		There is no OPTCL approved vendor in the List for FOTE, is this mandatory to submit all the qualifying documents at Bidding Stage? Please clarify.	is mandatory after award of contract. However undertaking for later submission is to be provided for all documents not submitted during tender stage.
10	Large Video wall 60" Full HD		The List of DEM for OPTCL is not available, Please provide	As per Technical specification and SBD
11	Technical Specification and GTP for 4" IPS Aluminium Tube will require for 220/132/33k 55 at Gunupur		Technical Specification require	As per TS and BOQ
12	In Supply Schedule No.2, it is mentioned in Item no. 28 as Switch yard Structures(Lattice Type for column & Beam and Pipe Type for All Equipment) for 220kV, 132kV & 33kV Class including Foundation Bolts & Nuts where as in item no. 28.4 Unit Weight of Equipment Support Structure are not indicated in the price Bid		Please confirm which type of structure (Lattice Type/Pipe Type) are consider for Equipment Support Structure	Lattice Type Equipment Support Structure as per BOQ
13			Please Provide	As per Amended BOQ.
14	As per Bid requirement, various Drawings, Document & Test Report for some of the Equipment/material, Qualifying Documents for SAS, Experience Certificate for Cable, sample for Joint Kit etc required to be submit at the stage of Bidding. But it is difficult to arrange all these documents from supplier in Tender Stage		Please confirm whether all these documents are mandatory to submit in the Bid	It is mandatory. However an undertaking for later submission can be provided for all documents not submitted during tender stage.
<b>C TRANSMISSION LINE</b>				
1	We understand that both the ACSR Panther Conductor & Low Loss Conductor shall be supplied in Non-Returnable Steel /		Confirmation require	As per technical specifications.
2	ACSR Panther Size is mentioned as 30/7/3.18mm in BOQ while in GTP (Pg. 14) under Technical Specifications it is mentioned as 30/7/3.00 mm. - Kindly Clarify		Specification and GTP are mismatching	As per technical specifications ACSR Panther Size is 30/7/3.00 mm.
<b>3 TECHNICAL SPECIFICATION</b>				
i	Please provide Technical Specifications for Anti Fog Porcelain Long Rod Insulators			
ii	Please provide Technical Specifications of ACSR Panther Conductor		Technical Specification Require	Already provided,
iii	Please provide Technical Specifications of Hardwares & Accessories for Low Loss ACSR Conductor. Please provide			
4	In GTP for Hardware (Vibration Damper, Pg. 14) is mentioned for AAC Conductor (37/4.00 mm) instead of ACSR Panther		GTP require	Provided.
5	Kindly provide the Technical Specifications and GTP for Hardwares & Accessories suitable for Low Loss Type ACSR		GTP & TS require	As per TS
6	We understand the Scope and Cost of Right of Way, Forest Clearance, Tree Cutting is in Contractor's Scope. Kindly Under Clause No.: 2.1.2 of the Technical Specifications of OPGW it is specified that OPGW Cable for this project is to be installed in Live Line Condition i.e., with all the circuits of the transmission line charged to their rated voltage. However, in		Please Clarify the Contractor's Scope	Yes.
7			Clarification require	Live Line Condition is not applicable in this case.
8	The MT Quantities are mismatched between Supply BOQ and Erection BOQ for Tower Parts		Please Provide the exact MT QTY	Amended BOQ. uploaded.
9	As per BOQ, Tested Towers are to be supplied. Please clarify		Please Clarify whether Bidder need to provide Tested Tower OR OPTCL shall supply its own Tested Towers	As per tender condition.
10	We understand that for both 132KV & 220KV Transmission Lines the Insulators to be supplied are of Long Rod Porcelain		Please confirm	As per BOQ.
11	Under Supply BOQ for 220KV LILO OF Therubali-Narendrapur TL; Item No.: 7.1 is specified as "FOR ACSR ZEBRA		Please confirm	Amended BOQ. uploaded.
12	Under Supply BOQ for 132KV LILO of 132KV Akhusing-Paralakhemundi TL; Item No.: 7.1 is specified as "For ACSR Panther-		Please confirm	Amended BOQ. uploaded.
13	Under Supply BOQ for 220KV LILO OF Therubali-Narendrapur TL & 132KV LILO of 132KV Akhusing-Paralakhemundi TL -		Please confirm	Amended BOQ. uploaded.
14	We receive following query from one of the Hardwares Manufacturers regarding the Ultimate Tensile Strength of		Please Clarify	As per technical specifications.
<b>Sl.No. Query</b>				
1	We shall import the LL conductor from Abroad, Custom Duty, Port Clearance shall be paid by Client, because it is a JICA funded project. Pls confirm			OPTCL reply
2	Inspection of LL Conductor cost shall in the scope of Client or Contractor, Pls confirm.			Bidder's scope.
3	Payment towards imported items, Client shall pay the payment in US DOLLAR/YEN/EURO/INR, Pls confirm			Bidder's scope.
4	PV of LL conductor shall be from Country of Origin instead of SBD PV formula. Pls confirm			As per SBD.
5	RDW scope shall be in the scope of Contractor as per GCC, regarding Land Compensation shall be in the scope of Contractor or Client. Pls confirm			As per SBD.
				Bidder's scope.


  
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Sl. No.	Reference Document	Existing clause	Comments/Clarification	OPTCL REPLY
6		Is there any Capitalization losses for Power Transformers, Kindly confirm.		Limitation of Transformer Losses for different Transformer ratings uploaded.
7		Forest Clearance shall be in the scope of Contractor or Client,Pls confirm		Bidder's scope.However OPTCL will assist in acquiring the statutory clearances as and when necessary.
8		Schedule 8.Details of Taxes & Duties included in the Grand Summary Price Schedule -6 ,you have mentioned all taxes & duties shall be mentioned in 1(a) i. Basic Customs Duty ii. GST shall me mentioned in INR or USD or		As per SBD.
9		Price Adjustment Formula mentioned in the SBD is different than Price adjustment Formula existing in the current contract with different utilities .Le IEEMA/CACMAI etc.But your formula is saying CPI for labour comment & WPI for material/ equipment comment , not a single vendors are agreeing to this index & formula,due to new formula. Therefore we request you kindly introduce IEEMA/CACMAI for above said tender. Kindly clarify.		Price Adjustment shall be made as per the Appendix-2, CF-14, Section-IX. Contract Form of Vol-I of III of Standard Bidding Document
10		Substation lands are taken over by OPTCL or yet to take, Pls clarify.		Encumbrance free project land will be handed over to the bidder in the event of successful award of the contract. Bidders are requested to visit the proposed sites before submitting their bids.
11		Project Completion Period is 24months for above said project. But Advance Bank Guarantee(ABG) shall valid upto 30months from the effective date of contract as per SBD. You are requested to reduction of ABG valid upto 24months.Pls clarify.		As per SBD.
12		It is JICA funded project, you are requested the advance payment shall be interest free to successful contractor. Pls clarify.		As per SBD.
13		In ICB bidding ,the effective date of contract will be the date of received of advance payment to the successful contractor. Pls clarify.		As per SBD.

*[Handwritten Signature]*  
11/6/18