

#### ODISHA POWER TRANSMISSION CORPORATION LTD OFFICE OFTHE SENIOR GENERAL MANAGER, CENTRAL PROCUREMENT CELL, JANPATH, BHUBANESWAR – 751022

## **TENDER SPECIFICATION**

#### NO. Sr.GM.-CPC -e-TENDER-ISOLATORS - 27/2022-23 FOR PROCUREMENT OF ISOLATORS.

Lot.	Sl. No.	ITEM DESCRIPTION	Qty. 2022- 23.	Cost of Tender document (in Rs.)	Last date of receipt & opening of tender	
Г	i	132 KV Double Isolator with E/S, 2000A.	22			
1	ii	132 KV Double Isolator W/O E/S,2000A	8			
п	i	33 KV Double Isolator With E/S, 2000A	32	12,000+ GST 18%- = <b>Rs.14,160/-</b>		
	ii	33KV Single Isolator, W/O E/S, 2000A	81			
	i	Male and female contact assembly per pole of Isolator for 420 KV <b>S&amp;S</b> Make Earth switch as per drawing.	18			
ш	ii	Male and female contact assembly per pole of Isolator for 420 KV 2000 A, HCB (Al) Isolator S&S Make as per drawing.	18		22.12.2022 UP TO 01 PM & 22.12.2022 AT 03-00 PM	
	iii	Male and female contact assembly in set for one Isolator (Three Poles) for 420 KV Isolator <b>GR Power Switchgear</b> Make for dia. 408 for Meramunduli GSS as per drawing.	4 Sets.			
	i	Motor operated mechanism box ( <b>Stainless</b> <b>Steel Cubicle</b> ) for 33kV Isolators	209			
IV	ii	Motor operated mechanism box ( <b>Stainless</b> <b>Steel Cubicle</b> ) for 132kV Isolators	304			
	iii	Motor operated mechanism box ( <b>Stainless</b> <b>Steel Cubicle</b> ) for 220kV Isolators	227			

SALE OF TENDER PAPER FROM Dt.24.11.2022 (11.00 Hrs) to Dt.21.12.2022 (12.00 Hrs). LAST DATE OF SUBMISSION OF TENDER PAPER- 22.12.2022 .UP TO 01 PM. DATE OF OPENING OF TENDER - 22.12.2022 AT 03-00 PM.

# ODISHA POWER TRANSMISSION CORPORATION LTD. REGD. OFFICE: JANPATH, BHUBANESWAR – 751 022, ODISHA.

#### e-TENDER NOTICE NO. CPC-27/2022-23

For and on behalf of **ODISHA POWER TRANSMISSION CORPORATION LTD, Sr. G.M. [C.P.C.]** invites Tenders from reputed manufacturers in two part bidding system for **supply of 132kV Isolators, 33kV Isolators, and spares of 400kV Isolators along with supply & retrofitting of Mechanism Boxes.** The interested bidders would be required to enroll themselves on the tender portal www.tenderwizard.com/OPTCL. Complete set of bidding documents are available at <u>www.tenderwizard.com/OPTCL</u> from **Dt.24.11.2022 (11.00 Hrs)** to **Dt.21.12.2022 (12.00 Hrs).** Interested manufacturers may visit OPTCL's official web site <u>http://www.optcl.co.in</u> and <u>www.tenderwizard.com/OPTCL</u> for detail specification.

#### SENIOR GENERAL MANAGER [C.P.C.]

# NOTICE INVITING TENDER ODISHA POWER TRANSMISSION CORPORATION LTD., REGD. OFFICE: JANPATH, Bhubaneswar.

# e-TENDER NOTICE NO- CPC-27/2022-23.

For and on behalf of the ODISHA POWER TRANSMISSION CORPORATION LTD., the undersigned invites bids under two-part bidding system in e- tendering mode only as per the following details.

Lot.	S1. No.	ITEM DESCRIPTION	Qty. 2022-23.	Cost of Tender document (in Rs.)	Last date of receipt & opening of tender	
	i	132 KV Double Isolator with E/S, 2000A.	22			
	ii	132 KV Double Isolator W/O E/S,2000A	8			
п	i	33 KV Double Isolator With E/S,2000A	32	GST 18%- = <b>Rs.14,160/-</b> 22.12.		
	ii	33KV SI W/O E/S,2000A	81			
	i	Male and female contact assembly per pole of Isolator for 420 KV <b>S&amp;S</b> Make Earth switch as per drawing.	18			
III	ii	Male and female contact assembly per pole of Isolator for 420 KV 2000 A, HCB (Al) Isolator S&S Make as per drawing.	18		22.12.2022 UP TO 01 PM & 22.12.2022 AT 03-00 PM	
	iii	Male and female contact assembly in set for one Isolator (Three Poles) for 420 KV Isolator <b>GR Power Switchgear</b> Make for dia. 408 for Meramunduli GSS as per drawing.	4 Sets.			
	i	Motor operated mechanism box ( <b>Stainless Steel Cubicle</b> ) for 33kV Isolators	209			
IV	ii	Motor operated mechanism box ( <b>Stainless Steel Cubicle</b> ) for 132kV Isolators	304			
	iii	Motor operated mechanism box ( <b>Stainless Steel Cubicle</b> ) for 220kV Isolators	227			

The bidders can view the tender documents from website free of cost.

### **TENDER COST**:

The bidders who want to submit bid shall have to pay **Rs. 14,160/-** (Rupees Fourteen thousand one hundred sixty) only nonrefundable including GST @ 18% towards the tender cost, online through e-payment gateway link provided in e-tender portal (by using Net Banking, Debit Card or Credit Card). The online payment can be made prior to last date & time of submission of online tender. They have to also submit notarized hard copy of GST registration certificate on or before the scheduled date & time of opening of techno-commercial bid.

#### **TENDER PROCESSING FEE:**

The bidders shall have to submit non-refundable amount of **Rs.5,900/-** (Rupees Five thousand & nine hundred) only including GST @ 18%) towards the tender processing fee to K.S.E.D.C.Ltd, in e-payment mode. The e-payment of above amount is to be made to enable the bidder to down load the bid proposal sheets & bid document in electronic mode.

# SUBMISSION OF TENDER COST, TENDER PROCESSING FEE & EMD:

The bidder shall deposit the tender cost, tender processing fee & EMD-BG prior to last date & time for submission of bid as notified in tender notice. Local micro & small enterprisers (MSEs) (In the state of Odisha) based in Odisha and registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC can participate without payment of the cost of tender specification. They have to submit notarized hard copy of valid registration as local MSE (In the state of Odisha) as above on or before the date & time of submission of techno-commercial bid.

The prospective bidders are advised to register their user ID, Password, company ID from website **www.tenderwizard.com/OPTCL** by clicking on hyper link "Register Me".

Any clarifications regarding the scope of work and technical features of the tender can be had from the undersigned during office hours.

Minimum qualification criteria of bidders: AS STIPULATED IN SECTION-II, (G.T.C.C) OF THE TENDER SPECIFICATION.

#### SENIOR GENERAL MANAGER, (CPC)

#### ODISHA POWER TRANSMISSION CORPORATION LTD. OFFICE OF THE SR. GENERAL MANAGER CENTRAL PROCUREMENT CELL, FAX NO.:0674 – 2542964 TELEPHONE NO.:0674 – 2541801 JANAPATH, BHUBANESWAR – 751022

TENDER SPECIFICATION NO.Sr.G.M.-CPC-e-TENDER-ISOLATORS-27/ 2022-23

#### CONTAINING

- <u> PART I</u>
- SECTION I : INSTRUCTION TO TENDERERS
- SECTION II : GENERAL TERMS AND CONDITIONS OF CONTRACT (G.T.C.C.) (COMMERCIAL)
- SECTION III : LIST OF ANNEXURES (COMMERCIAL)
- SECTION IV : TECHNICAL SPECIFICATION
- PART II PRICE BID.

# PART – I.

# <u>SECTION – I.</u>

# **INSTRUCTIONS TO TENDERERS**

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1.	Submission of Bids.	02
2.	Division of Specification.	02
3.	Tenders shall be in two parts.	
4.	Opening of Bids .	03
5.	Purchaser's right regarding alteration in	04
	Quantities, Tendered.	
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# COMMERCIAL SPECIFICATION. SECTION-I INSTRUCTIONS TO TENDERER

#### 1. 1. Submission of Bids: -

The bidder shall submit the bid in Electronic Mode only i.e. **www.tenderwizard.com/OPTCL**. The bidder must ensure that the bids are received in the specified website of the OPTCL by the date and time indicated in the Tender notice. Bids submitted by telex/telegram will not be accepted. No request from any bidder to the OPTCL to collect the Bids in physical form will be entertained by the OPTCL.

The OPTCL reserves the right to reject any bid, which is not deposited according to the instruction, stipulated above. The participants to the tender should be registered under GST laws.

- 1. For all the users it is mandatory to procure the Digital Signatures.
- 2. Contractors / Vendors / Bidders / Suppliers are requested to follow the below steps for Registration:
  - a. Click "Register", fill the online registration form.
  - b. Pay the amount of Rs. 2360/- through e-payment in Favour of KSEDCL Payable at Bangalore.
  - c. Send the acknowledgment copy for verification.
  - d. As soon as the verification is being done the e-tender user id will be enabled.
  - After viewing Tender Notification, if bidder intends to participate in tender, he has to use his e-tendering User Id and Password which has been received after registration and acquisition of DSCs.
- 4.

3.

- If any Bidder wants to participate in the tender he will have to follow the instructions given below:
  - a. Insert the PKI (which consist of your Digital Signature Certificate) in your System.(Note: Make sure that necessary software of PKI be installed in your system).
  - b. Click / Double Click to open the Microsoft Internet Explorer (This icon will be located on the Desktop of the computer).
  - c. Go to Start > Programs > Internet Explorer.
  - d. Type **www.tenderwizard.com/OPTCL** in the address bar, to access the Login Screen.

- e. Enter e-tender User Id and Password, click on "Go".
- f. Click on "Click here to login" for selecting the Digital Signature Certificate.
- g. Select the Certificate and enter DSC Password.
- h. Re-enter the e-Procurement User Id Password
- 5. To make a request for Tender Document Bidders will have to follow below mentioned steps.
  - Click "Un Applied" to view / apply for new tenders.
  - Click on Request icon for online request.
- 6. After making the request Bidders will receive the Tender Documents which can be checked and downloaded by following the below steps:
  - Click to view the tender documents which are received by the user.
  - Tender document screen appears.
  - Click "Click here to download" to download the documents.
- 7. After completing all the formalities Bidders will have to submit the tender and they must take care of following instructions.
  - Prior to submission, verify whether all the required documents have been attached and uploaded to the particular tender or not.
  - Note down / take a print of bid control number once it displayed on the screen
- 8. Tender Opening event can be viewed online.
- 9. Competitors bid sheets are available in the website for all.
- 10. For any e-tendering assistant contact help desk number mentioned below.Bangalore 080- 40482000.

The participants to the tender should be registered under GST laws.

# 2. <u>Division of Specification.</u>

The specification is mainly divided into two parts viz. Part-I & Part-II.

# Part-1 Consists of

[i] Section-I	Instruction to Tenderers.	
[ii] Section-II	General Terms & conditions of contract.	
[iii] Section-III	Schedules and forms etc.	

[iv] Section-IV

Technical Specification.

# Part-II Consists of

Schedule of prices as per Annexure-V

# 3. <u>Tenders shall be in two parts.</u>

The Tenderers are required to submit the tenders in two parts viz. Part-I (Techno commercial) & Part-II (Price bid).

# 4. **Opening of Bids.**

[a] The tender shall be opened on the date and time fixed by the OPTCL for opening of bids in Electronic mode in presence of such of the Tenderers or their authorized representatives [limited to one person only] on the due date of opening of tender who opt remain present. After scrutiny of the technical particulars and other commercial terms, clarifications, if required, shall be sought for from the bidders. The Tenderers shall be allowed 15 days' time for such activity.

[b] On receipt of technical clarification, the bids shall be reviewed, evaluated and those not in conformity with the technical Specification / qualifying experience, shall be rejected. If any of the technical proposal requires modification to make them comparable, discussion will be held with the participating bidders.

All the responsive bidders shall be given opportunity to submit the revised technical and revised price proposals as a follow up to the clarification (modification if any) on the technical proposals. The qualified bidders shall be given opportunity to submit revised price proposals within 15 days from the date of such discussion or within time frame mutually agreed, whichever is earlier.

- [c] When the revised price proposals are received, the original price proposals will be returned to the bidders unopened along with their original technical proposals. Only the revised technical and price proposals will be considered for bid evaluation. The price bids [Part-II] of such of the Tenderers, whose tenders have been found to be technically and commercially acceptable, including those supplementary revised price bids, submitted subsequently, shall be opened in the presence of the bidder's representative on a date and time which will be intimated to all technically and commercially acceptable Tenderers.
- [d] The bidders are required to furnish sufficient information to the Purchaser to establish their qualification, capacity to manufacture and/or supply the materials/perform the work. Such

information shall include details of bidder's experience, its financial, managerial and technical capabilities.

- [e] The bidders are also required to furnish details of availability of appropriate technical staff and capability to perform after sales services. The above information shall be considered during scrutiny and evaluation of bids and any bid which does not satisfactorily meet these requirements, shall not be considered for price bid evaluation.
- [f] The price bids of the technically and otherwise acceptable bids shall only be evaluated as per the norms applicable in terms of this Specification.
- 5. <u>Purchaser's Right Regarding Alteration of Quantities Tendered.</u>

The Purchaser may alter the quantities of materials/equipment at the time of placing orders. Initially the purchaser may place orders for lesser quantity with full freedom to place extension orders for further quantity under similar terms and conditions of the original orders. Orders may also be split among more than one tenderer for any particular item, if considered necessary in the interest of the Purchaser to get the goods/equipment earlier.

# 6. <u>Procedure and opening time of tenders.</u>

Tenders will be opened in the office of the SENIOR GENERAL MANAGER [C.P.C.] on the specified date and time in presence of the Tenderers or their authorized representatives [limited to one person only] in case of each bidder who may desire to be present, at the time of opening the bids.

# 7. <u>Bidder's Liberty to deviate from Specification.</u>

The Tenderer may deviate from the specification while quoting, if in his opinion, such deviation is in line with the manufacturer's standard practice and conducive to a better and more economical offer. All such deviations should however be clearly indicated giving full justifications for such deviation. [Read with Clause-9, Section-II of the Specification].

# 8. Eligibility for submission of bids.

Only those manufacturers who have deposited the cost of tender specification are eligible to participate in the tender. They should submit the money receipt as a proof of such payment. The local Micro and small Enterprises (MSEs) (In the state of Odisha) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC can participate without payment of the cost of tender specification.

#### 9. Purchaser's right to accept/reject bids:

The purchaser reserves the right to reject any or all the tenders without assigning any reasons what so ever if it is in the interest of OPTCL, under the existing circumstances. [Read with clause-10, Section-II of the specification].

#### 10. Mode of submission of Tenders.

- [A] Tenders shall be submitted in electronic mode only. (www.tenderwizard.com/OPTCL)
- [B] <u>Telegraphic or FAX tenders</u> shall not be accepted under any circumstances.

#### 11. Earnest money deposit:

The tender shall be accompanied by Earnest Money deposit of value specified in the notice inviting tenders against each lot / bid. Tenders without the required EMD as indicated at <u>Annexure-VIII</u> will be rejected out rightly.

The local Micro and small Enterprises(MSEs) (In the state of Odisha)registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC can participate by submitting Earnest Money Deposit @ fifty percent of the amount indicated in the Notice Inviting Tender.

The earnest money deposit shall be furnished in one of the following forms subject to the conditions mentioned below:

- (a) **Cash:** Payable to drawing & disbursing Officer, OPTCL (Hd.qrs. Office), Bhubaneswar 751022
- (b) **Bank Draft**: To be drawn in favour of Drawing & Disbursing Officer, OPTCL [H.Qrs.Office], Bhubaneswar-751 022.
- (c) Bank Guarantee from any Nationalized/Scheduled Bank strictly as per enclosed proforma vide <u>Annexure-VI</u> to be executed on non judicial stamp paper worth Rs.29.00 or as applicable, as per prevailing laws in force and also to be accompanied by the confirmation letter of the issuing Bank Branch.

#### <u>NOTE:</u>

- (i). The validity of the EMD in the form of Bank Guarantee shall be at least for 240 days from the date of opening of tender failing which the tender will be liable for rejection.
- (ii) No interest shall be paid on the Earnest Money Deposit.
- (iii) E.M.D. in shape of cash may be submitted up to Rs. 25,000/- (Rupees Twenty-five) Thousand) only. Above Rs. 25,000/- (Rupees Twenty five thousand) the Earnest Money Deposit shall be furnished in any one of the forms indicated above (i.e. Through Bank Draft, Bank Guarantee/ National Savings Certificate).

- (iv) No adjustment towards EMD shall be permitted against any outstanding amount with the **ODISHA POWER TRANSMISSION CORPORATION LTD**.
- (v) The chart showing particulars of EMD to be furnished by Tenderers of different categories is placed at <u>Annexure-VIII.</u>
- (vi) In the case of un-successful tenderer, the EMD will be refunded after the tender is decided. In the case of successful Tenderer, this will be refunded only after furnishing of security money referred to at <u>clause-19 of Section-II</u>.
- (vii) Suits, if any, arising out of this clause shall be filed in a Court of law to which the jurisdiction of High Court of ODISHA extends.
- (vii) EMD will be forfeited if the tenderer fails to accept the letter of intent and/or purchase order issued in his favour or to execute the order, placed on them.
- (viii) Tenders not accompanied by Earnest Money shall be disqualified.

However, the bidder has to submit the "bid security declaration" (to be submitted in revised commercial annexure-I-Declaration form, enclosed herewith) that if they withdraw or modify their bids during the validity period "they will be suspended for three years from the date of opening of the bid".

## 12. Validity of the Bids: -

The tenders should be kept valid for a period of **180** days from the date of opening of the tender, failing which the tenders will be rejected.

# 13. <u>PRICE: -</u>

i) Tenderers are requested to quote-'FIRM' Price. No deviation from **FIRM PRICE** will be entertained irrespective of deviation clause No.7 of this part of the specification.

# 14. <u>Revision of tender price by Bidders</u>: -

- [a] After opening of tenders and within the validity of period, no reduction or enhancement in price will be entertained. If there is any change in price, the tender shall stand rejected and the EMD deposited shall be forfeited.
- **[b]** After opening of price bid if the validity period is not sufficient to place purchase order, the tenderer may be asked by the purchaser to extend the validity period of the bid under the same terms and condition as per the original tender.

However, the tender are free to change any or all conditions including price except delivery period of their bids at their own risk, if they are asked by the purchaser to extend the validity period of the bid prior to opening of price bid.

# 15. <u>Tenderers to be fully conversant with the clauses of the Specification:</u> -

Tenderers are expected to be fully conversant with the meaning of all the clauses of the specification before submitting their tenders. In case of doubt regarding the meaning of any clause, the tenderer may seek clarification in writing from the Senior General Manager (Central Procurement Cell) OPTCL. This, however, does not entitle the Tenderer to ask for time beyond due date, fixed for receipt of tender.

#### 16. Documents to Accompany Bids.

Tenderers are required to submit tenders in the following manner:

#### The Tender shall Contain the following documents.

- [i] Declaration Form. [As per Annexure-I]
- [ii] Earnest Money. [As per Annexure-VIII] Tender Cost
- [iii] Technical specification and Guaranteed Technical Particulars conforming to the Purchaser's Specification along with drawings, literatures and all other required Annexures, duly filled in.
- [iv] Photostat copies of type test certificates of materials/equipment offered as stipulated in the Technical Specification.
- [v] Abstract of Terms & conditions in prescribed proforma as per Annexure-II.
- [vi] General Terms & Conditions of supply offer as per Section-II of the Specification.
- [vii] List of orders executed for similar materials/equipment's during preceding 2 (two) years indicating the customer's name, Purchase Order No. & Date, date of supply and date of commissioning etc.
- [viii] Data on past experience <u>as per Clause-7 of Section-II</u> of the Specification.
- [ix] GST Compliance Rating. The GST Identification Number (GSTIN) under GST Laws and permanent account number [PAN] of the firm under Income tax Act are required.
- [x] Audited Balance sheet & profit loss accounts of the bidder, for past (3) three years.
- [xi] Schedule of quantity and delivery in the prescribed Proforma vide <u>Annexure, as appended.</u>
- [xii] List of Orders in hand to be executed.
- [xiii] Deviation schedule.

[xiv] The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify/declare the same in unequivocal terms by way of an affidavit duly sworn before a magistrate/notary.

[xv] Notarized hard copy and soft copy of valid registration as local MSE (In the state of Odisha)(if any).

### 17. Documents/Papers to accompany Part-II Bid.

- (a) Part-II of the tender shall consist of the following
- (i) Schedule of prices in the prescribed proforma

# 18. <u>Conditional Offer:</u>

Conditional offer shall not be accepted.

# 19. <u>General:</u> -

- (i) In the event of discrepancy or arithmetical error in the schedule of price, the decision of the purchaser shall be final and binding on the Tenderer.
- (ii) For evaluation, the price mentioned in words shall be taken if there is any difference in figures and words in the price bid.
- (iii) Notice inviting tender shall form part of this specification.
- (iv) The price bids of the technically and otherwise acceptable bids shall only be evaluated. The EMD of others, if any, shall be returned to the bidders.
- (v) Tenderer can offer any lot or all the lots of the tender, if there are more than one lots. But the tender (bid) must be furnished separately for each lot.
- (vi) It should be distinctly understood that the price bid shall contain only details/documents relating to price, as outlined in clause-17 mentioned herein above. Inclusion of any of the documents/information etc. shall render the bid liable for rejection.
  - (viii) The tenderer must submit the EMD amount, cost of tender document (Form Fee) and Tender processing fee in a sealed cover envelope super-scribing the tender specification number, Tender Notice No & Date of tender clearly on the cover envelope. The said envelope is to be submitted in the office of the purchaser on or before the last date and time of submission of Bids.

# 20.0 Expenses in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site.

The testing and inspection of the equipment/ materials at manufacturer works are in the scope of work of the Contractor/Supplier.

OPTCL inspecting officer, on receipt of offer for inspection from the contractor/supplier, proceeds to the manufacturer works to witness the Type/Acceptance/Routine test. Important:

It is hereby informed to all the bidders that the relevant clauses of the contract specification, pertaining to inspection and testing of equipment/materials, are hereby supplemented with following additional terms and conditions.

The expenses under the following heads, in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site, shall be borne by the contractor / supplier.

#### a) Hotel Accommodation:

- I. Single room accommodation in 4 star hotel for the OPTCL inspecting officer of the rank of Assistant General Manager (Grade E-6) and above.
- II. Single room accommodation in 3 star hotel for the OPTCL inspecting officer of the rank below Assistant General Manager (Grade E-6).
- N.B.: It is the responsibility of the contractor to arrange the hotel accommodation matching with their inspection and testing schedule, so that the inspecting officer can check-in the hotel one day prior to the date of inspection and check out after the completion of the inspection, subject to availability of the return travel ticket. In case of extended duration of inspection or non-availability of the return travel ticket, Contractor/supplier/manufacturer shall arrange for the extended stay of the inspecting officer in the Hotel accordingly. In case there is no hotel with prescribed standard in and around the place of inspection, the contractor/supplier/manufacturer shall suggest alternative suitable arrangement at the time of offer for inspection, which is subjected to acceptability of OPTCL inspecting officer.

#### b) Journey of the inspecting officer:

- (i) To and fro travel expenditure from the Head Quarters of the inspecting officer to the place of inspection/testing shall be borne by the contractor/supplier/manufacturer. Journey from the Head Quarters of the inspecting officer to the nearest Air Port by train (Ist/IInd A.C) & A/C Taxi then by Air to the place of inspection/testing or to the nearest place of inspection/testing and then by train (Ist/IInd A.C) & A/C taxi to the place of inspection/testing shall be arranged by the contractor/supplier/manufacturer.
- (ii) For train journey, inspecting officer of the rank Assistant General Manager and above shall be provided with 1st class AC ticket and inspecting officer below the rank of Assistant General Manager shall be provided with 2nd class AC ticket.
- (iii) The Air-ticket / train-ticket booking/cancellation is the responsibility of the contractor / supplier.
- (iv) Moreover, if during the journey there is an unavoidable necessity for intermediate travel by road/ waterway/sea-route, the contractor/supplier shall provide suitable conveyance to the inspecting officer for travel this stretch of journey or bear the cost towards this. Any such possibilities shall be duly intimated to OPTCL at the time of their offer for inspection.

#### c) Local Conveyance:

At the place of the inspection/testing, for local journey of the inspecting officer between Hotel and inspection/testing site and or any other places, Air-conditioned four wheeler vehicle in good condition shall be provided by the contractor/supplier/manufacturer.

#### d) Following points are also to be considered:

- (i) All the above expenses shall be deemed to be included in the bidder's quoted price for that supply item. Bidder shall not be eligible to raise any extra claim in this regard.
- (ii) Contractor/supplier/manufacturer may assume that only in 40% of the inspection and testing offer cases, OPTCL inspecting officer, not below the rank of Assistant General Manager will witness the inspection and testing.
- (iii) In case of inspection and testing of some critical equipment/materials like Power transformers, OPTCL may depute more than one inspecting officer. (iv) Contractor / supplier / manufacturer shall judiciously plan the inspection/testing schedule and place of inspection/testing, so that optimum number of inspection/testing and minimum time shall be required to cover all the equipment/materials of the relevant contract package.
- (v) It shall be the responsibility of the Contractor/Supplier to organize the above tour related matters of OPTCL inspecting officer including the matters related to overseas inspection/testing, if any.
- 21.0 (a). Detailed information on any litigation or arbitration arising out of contract completed or under execution by it over the last five years. A consistent history of litigation by or against the bidder may result in rejection of bid.
- 21.0 (b). The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify / declare the same in the unequivocal terms by way of an affidavit duly sworn before a magistrate/notary. Bid furnished by the bidder shall not be eligible for consideration if it is not accompanied by the affidavit. Further the bid / LOA/ LOI shall be liable for outright rejection/ cancellation at any stage if any information contrary to the affidavit / declaration is detected.

# **SECTION – II.**

# **GENERAL TERMS AND CONDITIONS OF CONTRACT [G.T.C.C.]**

<u>Clause.</u>	<u>Title.</u>	Page.
1.	Scope of the contract.	03
2.	Definition of terms.	03
3.	Manner of execution.	04
4.	Inspection and testing.	04
5.	Training facilities.	05
6.	Rejection of materials.	05
7.	Experience of bidders.	05
8.	Language and measures.	06
9.	Deviation from Specification.	06
10.	Right to reject/accept any tender.	06
11,	Supplier to inform himself fully.	07
12.	Patent rights etc.	07
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#### PART-I

#### SECTION-II

# **GENERAL TERMS AND CONDITIONS OF CONTRACT** [G.T.C.C.]

#### 1. Scope of the contract:

The scope of the contract shall be to design, manufacture, supply of equipment as per the specification at the consignee's site, and rendering services in accordance with the enclosed technical specification and bill of quantity.

# 2.0 **Definition of terms:**

For the purpose of this specification and General Terms and Conditions of contract [GTCC], the following words shall have the meanings hereby indicated, except where otherwise described or defined.

- 2.1 "The Purchaser" shall mean the Senior General Manager [Central Procurement Cell] for and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., Bhubaneswar.
- 2.2 "The Engineer" shall mean the Engineer appointed by the Purchaser for the purpose of this contract.
- 2.3 "Purchaser's Representative" shall mean any person or persons or consulting firm appointed and remunerated by the Purchaser to supervise, inspect, test and examine workmanship and materials of the equipment to be supplied.
- 2.4 "The supplier" shall mean the bidder whose bid has been accepted by the purchaser and shall include the bidder's executives, administrators, successors and permitted assignees.
- 2.5 "Equipment" shall mean and include all machinery, apparatus, materials, and articles to be provided under the contract by the suppliers.
- 2.6 "Contract Price" shall mean the sum named in or calculated the bid.
- 2.7 "General Condition" shall mean these General Terms and Conditions of Contract.
- 2.8 The Specification" shall mean both the technical as well as commercial parts of the specification annexed to or issued with GTCC and shall include the schedules and drawings, attached thereto as well as all samples and pattern, if any.
- 2.9 "Month" shall mean "Calendar month".
- 2.10 Writing" shall include any manuscript, type written, printed or other statement reproduction in any visible form and whether under seal or under hand.
- 2.11 Basic Price (Taxable value for Goods) at the point of destination" shall mean the price quoted by the bidder for equipment and material at the consignee's store/site. The cost is inclusive of

packing, forwarding, freight, insurance and all expenses and taxes & duties at the end of the supplier excluding Goods & Service Tax. The Goods & Service Tax shall be shown in a separate column item wise alongside the Basic Price quoted at the applicable rate in the Tax Invoice. The applicable rate of GST shall refer to the HSN code of the material supplied. The Basic Price and GST thereon shall be the "FOR Destination Price" as quoted by the bidder.

- 2.12 The term "Contract document" shall mean and include GTCC, specifications, schedules, drawings, form of tender, Notice Inviting Tender, covering letter, schedule of prices or the final General Conditions, any special conditions, applicable to the particular contract.
- 2.13 Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian Contract Act, failing that in the Odisha General Clauses Act.

# 3. Manner of execution:

All equipment supplied under the contract shall be manufactured in the manner, set out in the specification or where not set out, to the reasonable satisfaction of the Purchaser's representative.

#### 4. **Inspection and Testing**:

- [i] The purchaser's representative shall be entitled at all reasonable times during manufacture to inspect, examine and test at the supplier's premises, the materials and workmanship of all equipment/materials to be supplied under this contract and if part of the said equipment/material is being manufactured in other premises, the supplier shall obtain for the purchaser's representative permission to inspect, examine and test as if the equipment/material were being manufactured in the contractor's premises. Such inspection, examination and testing shall not relieve the supplier from his obligations under the contract.
- [ii] The Supplier shall give to the purchaser adequate time/notice (at least clear 15 days for inside the state suppliers and 20 days for outside the state suppliers) in writing for inspection of materials indicating the place at which the equipment/material is ready for testing and inspection and shall also furnish the shop Routine Test Certificate, Calibration certificates of Testing instruments, calibrated in Govt. approved laboratory with authenticity letter of that laboratory along with the offer for inspection. A packing list along with the offer, indicating the quantity which can be delivered in full truck load/Mini truck load to facilitate issue of dispatch instruction shall also be furnished.
- [iii] Where the contract provides for test at the Premises of the supplier or any of his sub-vendors, the supplier shall provide such assistance, labour, materials, electricity, fuel and instruments, as may be required or as may be reasonably demanded by the Purchaser's representative to carry out such tests efficiently. The supplier is required to produce shop routine test

Certificate, calibration certificates of Testing Instruments before offering their materials/equipment for inspection & testing. The test house/laboratory where tests are to be carried out must be approved by the Govt. A letter pertaining to Govt. approved laboratory must be furnished to the purchaser along with the offer for inspection.

- [iv] After completion of the tests, the Purchaser's representative shall forward the test results to the Purchaser. If the test results conform to the specific standard and specification, the Purchaser shall approve the test results and communicate the same to the supplier in writing. The supplier shall provide at least five copies of the test certificates to the Purchaser.
- [v] The Purchaser has the right to have the tests carried out at his own cost by an independent agency whenever there is dispute regarding the quality of supply.
- [vi] If the firm fails to present the offered items for inspection/testing as per their inspection call due to any reason(s) during the visit of inspecting officer at the testing site, the firm shall have to bear all expenses towards repetition of inspection and testing of the total offered quantity or part thereof.

#### 5. <u>Training facilities.</u>

The supplier shall provide all possible facilities for training of Purchaser's Technical personnel, when deputed by the Purchaser for acquiring first-hand knowledge in assembly of the equipment, its erection, commissioning and for its proper operation & maintenance in service, wherein it is thought necessary by the purchaser.

#### 6. **<u>Rejection of Materials.</u>**

In the event any of the equipment /material supplied by the manufacturer is found defective due to faulty design, bad workmanship, bad materials used or otherwise not in conformity with the requirements of the Specification, the Purchaser shall either reject the equipment/material or ask the supplier in writing to rectify or replace the defective equipment/material free of cost to the purchaser. The Supplier on receipt of such notification shall either rectify or replace the defective equipment/material free of cost to the defective equipment/material free of cost to the purchaser. The Supplier on receipt of such notification shall either rectify or replace the defective equipment/material free of cost to the purchaser. If the supplier fails to do so, the Purchaser may:-

- [a] At its option replace or rectify such defective equipment /materials and recover the extra costs so involved from the supplier plus fifteen percent and/or.
- [b] Terminate the contract for balance work/supplies, with enforcement of penalty Clause as per contract for the un-delivered goods and with forfeiture of Performance Guarantee/ Composite Bank Guarantee.

[c] Acquire the defective equipment/materials at reduced price, considered equitable under the circumstances.

#### 7. <u>Experience of Bidders</u>:

The bidders should furnish information regarding experience particularly on the following points:

- [i] Name of the manufacturer:
- [ii] Standing of the firm and experience in manufacture of equipment / material quoted:
- [iii] Description of equipment/material similar to that quoted, supplied and installed during the last two years with the name(s) of the Organizations to whom supplies were made wherein, at least one (1) certificate shall be from a state/central P.S.U.
- [iv] Details as to where installed etc.
- [v] Testing facilities at manufacturer's works.
- [vi] If the manufacturer is having collaboration with another firm [s], details regarding the same.
- [vii] A list of purchase orders of identical material/equipment offered as per technical specification executed during the last two years along with user's certificate. User's certificate shall be legible and must indicate, user's name, address, designation, place of use, and satisfactory performance of the equipment/materials for at least two years from the date of commissioning. Wherein at least one (1) certificate shall be from a State/Central or P.S.U. Bids will not be considered if the past manufacturing experience is found to be unsatisfactory or is of less than 2 (two) years on the date of opening of the bid and bids not accompanying user's certificate will be rejected..

#### 8. Language and measures:

All documents pertaining to the contract including specifications, schedule, notices, and correspondence, operating and maintenance instructions. Drawings or any other writing shall be written in English language. The metric system of measurement shall be used exclusively in this contract.

#### 9. **Deviation from specification**:

It is in the interest of the tenderers to study the specification, specified in the tender schedule thoroughly before tendering so that, if any deviations are made by the Tenderers, (both commercial and Technical), the same are prominently brought out on a separate sheet under heading "Deviations Commercial" and "Deviations Technical".

A list of deviations shall be enclosed with the tender. Unless deviations in scope, technical and commercial stipulations are specifically mentioned in the list of deviations, it

shall be presumed that the tenderer has accepted all the conditions, stipulated in the tender specification, not- withstanding any exemptions mentioned therein.

## 10. Right to reject / accept any tender:

The purchaser reserves the right either to reject or to accept any or all tenders if the situation so warrants in the interest of the purchaser. Orders may also be split up between different Tenderers on individual merits of the Tenderer. The purchaser has exclusive right to alter the quantities of materials/ equipment at the time of placing final purchase order. After placing of the order, the purchaser may defer the delivery of the materials. It may be clearly understood by the Tenderer that the purchaser need not assign any reason for any of the above action [s].

## 11. Supplier to inform himself fully:

The supplier shall examine the instructions to tenderers, general conditions of contract, specification and the schedules of quantity and delivery to satisfy himself as to all terms and conditions and circumstances affecting the contract price. He shall quote price [s] according to his own views on these matters and understand that no additional allowances except as otherwise provided there in will be admissible. The purchaser shall not be responsible for any misunderstanding or incorrect information, obtained by the supplier other than the information given to the supplier in writing by the purchaser.

## 12. Patent rights Etc.

The supplier shall indemnify the Purchaser against all claims, actions, suits and proceedings for the infringement of any patent design or copy right protected either in the country of origin or in India by the use of any equipment supplied by the manufacturer. Such indemnity shall also cover any use of the equipment, other than for the purpose indicated by or reasonably to be inferred from the specification.

#### 13. Delivery:-

- [a] Time being the essence of the contract; the equipment shall be supplied within the delivery period, specified in the contract. The Purchaser, however, reserves the right to reschedule the delivery and change the destination if required. The delivery period shall be reckoned from the date of placing the Letter of Intent/Purchase order, as may be specified in LOI / Purchase order.
- [b] The desired delivery period shall be as indicated at Appendix-II (Quantity & Delivery Schedule) of Section-IV (Technical Specification).

#### 14. **Despatch instructions**.

I] The equipment / materials should be securely packed and dispatched directly to the specified site at the supplier's risk by Road Transport only.

## II] Loading & unloading of Ordered Materials.

It will be the sole responsibility of the supplier for loading and unloading of materials both at the factory site and at the destination site/store.

The Purchaser shall have no responsibility on this account.

## 15. Supplier's Default Liability.

- [i] The Purchaser may, upon written notice of default to the supplier, terminate the contract in circumstances detailed hereunder.
- [a] If in the judgement of the Purchaser, the supplier fails to make delivery of equipment/material within the time specified in the contract or within the period for which if extension has been granted by the Purchaser in writing in response to written request of the supplier.
- [b] If in the judgment of the Purchaser, the supplier fails to comply with any of the provisions of this contract.
- [ii] In the event, Purchaser terminates the contract in whole or in part as provided in Clause-15 {I) of this section, the Purchaser reserves the right to purchase upon such terms and in such a manner as he may deem appropriate in relation to the equipment/material similar to that terminated and the supplier will be liable to the Purchaser for any additional costs for such similar equipment/material and/or for penalty for delay as defined in clause-22 of this section until such reasonable time as may be required for the final supply of equipment.
- [iii] In the event the Purchaser does not terminate the contract as provided in clause 15(I) of this Section, supplier shall be liable to the Purchaser for penalty for delay as set out in Clause-22 of this section until the equipment is accepted. This shall be based only on written request of the supplier and written willingness of the Purchaser.

### 16 Force Majeure:

The supplier shall not be liable for any penalty for delay or for failure to perform the contract for reasons of force majeure such as acts of god, acts of the public enemy, acts of Govt., Fires, floods, epidemics, Quarantine restrictions, strikes, Freight Embargo and provided that the supplier shall within Ten (10) days from the beginning of delay on such

account notify the purchaser in writing of the cause of delay. The purchaser shall verify the facts and grant such extension, if facts justify.

## 17. Extension of time:-

If the delivery of equipment/material is delayed due to reasons beyond the control of the supplier, the supplier shall without delay give notice to the purchaser in writing of his claim for an extension of time. The purchaser on receipt of such notice may or may not agree to extend the contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract.

#### 18. Guarantee period: - ( As per clause 35 of the technical specification.

- [i] The stores covered by this specification should be guaranteed for satisfactory operation and against defects in design, materials and workmanship for a period of at least 18 [Eighteen] months from the last date of delivery or **12 [Twelve]** months from the date of commissioning whichever is earlier. The above guarantee certificate shall be furnished in triplicate to the purchaser for his approval. Any defect noticed during this period should be rectified by the supplier free of cost to the purchaser provided such defects are due to faulty design, bad workmanship or bad materials used, within one month upon written notice from the purchaser failing which provision of clause 22 (ii) shall apply.
- [ii] Equipment/material failed or found defective during the guarantee period shall have to be guaranteed after repair/replacement for a further period of 12 months from the date of commissioning or 18 months from the date of receipt at the store/site after such repair/replacement whichever is earlier. The Bank Guarantee is to be extended accordingly. Date of delivery as used in this clause shall mean the date on which the materials are received in OPTCL'S stores/site in full & good condition which are released for Despatch by the purchaser after due inspection.

#### **19. B.G. towards security deposit, 100% payment and performance guarantee:**

### [i] For manufacturers situated Inside & outside the state of Odisha.

A Composite Bank Guarantee as per the Proforma enclosed at Annexure-VII of the specification for 3% (Three percent) of the Total Landing cost (Taxable Value plus GST thereon) of the purchase order (In case of successful bidder who is a local Micro and small Enterprise(MSEs) (In the state of Odisha) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC 3% (Three percent) shall be furnished from any nationalized/scheduled bank having a place of business at Bhubaneswar, to the office of SENIOR General Manager [Central Procurement Cell] OPTCL within 15 days from the date of issue of the purchase order,. The BG shall be executed on non-judicial stamp

paper worth of Rs.29.00 [Rupees twenty nine] only or as per the prevalent rules, valid for a period of 2 months more than the Guarantee Period, for scrutiny and acceptance, failing which the supply order will be liable for cancellation without any further written notices. The BG should be accompanied by a confirmation letter from the concerned bank and should have provision for encashment at Bhubaneswar, before the Bank Guarantee is accepted and all concerned intimated. The B.G should be revalidated as and when intimated to you to cover the entire guarantee period.

- [ii] No interest is payable on any kind of Bank Guarantee.
- [iii] In case of non-fulfillment of contractual obligation, as required in the detailed purchase order/Specification, the composite Bank guarantee shall be forfeited.

## 20. <u>Import License</u>

In case imported materials are offered, no assistance will be given for release of Foreign Exchange. The firm should arrange to import materials from their own quota. Equipment of indigenous origin will be preferred.

# 21. (A) <u>Terms of Payment.</u>

i) 100% taxable value of each consignment with 100% Goods and Services Tax in full as applicable will be paid on receipt of materials in good condition at stores/desired site and verification thereof, subject to furnishing and approval of a. Contract cum Performance Bank Guarantee at the rate of **3%** (**Three percent**) of Taxable Value plus GST thereon [In case successful bidder is a local Micro and small Enterprise (MSEs), based in Odisha & registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC, **3%** 

# (Three percent) .

b. Guarantee certificate, c.Test certificate by the Purchaser.

ii) TDS under GST Laws shall be deducted, as applicable.

iii) Any imposition of new tax or revision of tax shall be paid/reimbursed at the time of dispatch, scheduled or actual whichever is lower (i.e. If delivery is within schedule period, tax variation as applicable shall be paid, and if delivery is made beyond schedule date, any additional financial implication due to statutory variation in tax shall be to bidder's account)

**[B]** The supplier shall furnish contract cum performance Bank Guarantee of appropriate amount to OPTCL as indicated in (i) above, within 30 days from the date of issue of the purchase order.

# 22 <u>Price Reduction Schedule for Delay in Completion of Supply under Purchase</u> Order/Contract

(i) If the Supplier fails to deliver the materials/equipment within the delivery schedule, specified in the Purchase Order/Contract including delivery time extension, if any, granted with waiver of Price Reduction Schedule, the Purchaser shall recover from the Supplier, Price Reduction Schedule for a sum of half per cent (0.5 per cent) of the Taxable Value of the undelivered equipment /materials for each calendar week of delay or part thereof. For this purpose, the date of receipted challan shall be reckoned as the date of delivery. The total amount of Price Reduction Schedule shall not exceed **five percent (5%)** of the Taxable Value of the undelivered only when all its components, accessories and spares as per technical Specification are also delivered. If certain components, accessories and spares are not delivered in time, the equipment/materials will be considered delayed until such time as the missing components, accessories and spares are delivered.

(ii) During the guarantee period, if the Supplier fails to rectify/replace the equipment/material within 30 days from the date of intimation of defect by the purchaser, then the Price Reduction Schedule at the rate of half percent (0.5%) of the Total Taxable Value for each calendar week of delay or part thereof shall be recovered by the purchaser. For this purpose, Price Reduction Schedule shall be reckoned from the 30<sup>th</sup> day from the date of issue of letter on defectiveness of equipment/material. The total amount of Price Reduction Schedule in this case shall not exceed 10% (TEN PERCENT) of the Purchase Order/Contract amount except GST (i.e.Total Taxable Value). If the defects, so intimated are not rectified or equipment/materials not replaced by the supplier within the guarantee period, then whole of the C.P.B.G. will be forfeited by the purchaser, without any intimation to the supplier.

# 23. Insurance

The Supplier shall undertake insurance of stores covered by this Specification unless otherwise stated. The responsibility of delivery of the stores at destination in good condition rests with the Supplier. Any claim with the Insurance Company or transport agency arising due to loss or damage in transit has to be settled by the supplier. The Supplier shall undertake free replacement of materials damaged or lost, which will be reported by the consignee within 30 days of receipt of the materials at destination without awaiting for the settlement of their claims with the carriers and underwriters.

24. <u>Payment Due from the Supplier</u>. All costs and damages, for which the supplier is liable to the purchaser, will be deducted by the purchaser from any money, due to the supplier, under any of the contract (s), executed with OPTCL.

# 25. <u>Rating under Goods and Services Tax and Balance sheet and profit & Loss Account:</u>

The following documents are to be submitted at the time of Tender Submission:

i. Compliance rating under Goods and Services Tax for immediate preceding financial year.

ii. Audited Balance Sheet and Profit & Loss Account of the bidder for the previous three years to assess the financial soundness of the bidder(s).

iii. GST registration certificate and PAN Card Copy.

iv. Tax holiday/exemption certificate under GST or any other Act.

v. TDS exemption certificate under the Income Tax Act or any other act.

## 26. <u>Certificate of Exemption from Goods and Services Tax</u>.

Offers with exemption from Goods and Services Tax shall be accompanied with authenticated attested Photostat copy of exemption certificate. Any claim towards Goods and Services Tax shall be paid on actual basis subject to payment of GST by the supplier. In case Outward supply details of the supplier of Goods in GSTR-1 do not match with GSTR -2 of OPTCL on GSTN portal, the same will be adjusted through debit/credit advice issued by OPTCL under intimation to the supplier after allowing cooling period of 3 months after the date of supply.

#### 27. <u>Supplier's Responsibility</u>.

Notwithstanding anything mentioned in the Specification or subsequent approval or acceptance by the Purchaser, the ultimate responsibility for design, manufacture, materials used and satisfactory performance shall rest with the Tenderers. The Supplier(s) shall be responsible for any discrepancy noticed in the documents, submitted by them along with the bid(s)

# 28. <u>Validity.</u>

Prices and conditions contained in the offer should be kept valid for a minimum period of **180** days from the date of opening of the tender, failing which the tender shall be rejected.

## 29. EVALUATION.

(i) Evaluation of price bids will be on the basis of the FOR DESTINATION PRICE including Goods

and Services Tax & other levies as may be applicable. The FORD PRICE shall consist of the following components:

a) Taxable value of equipment/materials including mandatory spares, if any for maintenance

- of equipment. (At discretion of the purchaser)
- b) Good and Services Tax
- c) Other levies, if any.
- d) Test charges, if any.
- e) Supervision of erection, testing and commissioning charges, if any.
- f) Any other items, as deemed proper for evaluation by the purchaser.
- g) Loading will be made for items not quoted by the bidder at the highest rate quoted by other bidders unless particular item is included in other items.
- h) Any imposition of new tax or revision of tax shall be considered between due date of

submission of bids and the date of price bid opening.

# 29. (B) E-REVERSE AUCTION PROCEDURE SHALL BE ENSURED TO AS FOLLOWS

STRATEGY FOR E-REVERSE AUCTION		
1	Bidders are required to go through the guide lines given below and submit their acceptance to the same.	
2	E-Reverse Auction (RA) will be conducted in e-tender portal of OPTCL on specified date and time, while	
	bidders shall quote from their own offices/places of their choice. Internet connectivity shall be ensured by the	
	respective agencies/bidders themselves.	
3	KEONICS shall arrange for demonstration/ training (if not trained earlier) of bidder's nominated person(s), to	
	explain all the rules related to e-Reverse Auction/ Business Rule document to be adopted.	
4	The strategy to be used for reverse auction shall be "DYNAMIC TEMPLATE BIDDING"	
Proc	edure for electronic Reverse Auctioning (e-RA):	
5	a. The e-RA shall be conducted on www.tenderwizard.com/OPTCL only.	
	b. Bidder has to submit letter towards agreement to the Process related Terms & Conditions for e-Reverse	
	Auction, as per (Reverse Auction Process Compliance Form at Annexure-XIX). In non-receipt of the same,	
	vendors will not be allowed to participate in e-RA.	
	c. e-RA shall be carried out after opening of Price bids and completion of Price bid evaluation, which will be	
	intimated only to the techno-commercially qualified bidders by OPTCL as per procedure given below.	
	d. OPTCL reserves the right to conduct e-RA and it is obligatory on part of bidder(s) invited to participate in e-	
	RA process once they have responded to the techno-commercial bid.	
6	Prior intimation/ Notice for RA invitation will be given to techno-commercially qualified bidders regarding the	
	date & time of opening of the e-RA.	
	The start bid price (SBP) for e-Reverse Auction of each bidder under a particular package shall be the L1	
	evaluated price for the subject package including Taxes & Duties for the total scope for subject Package. Taking	
	the above discovered L1 price as the upper limit e-RA will be conducted to determine the lowest possible price.	
	Reverse Auction will be conducted amongst first 50% of the technically qualified bidders arranged in order of	

	prices from lowest to highest, as L1, L2,L3Ln, and L1 price will be discovered. Minimum of 3 bidders
	shall be eligible for e RA. (eg. If 4 bidders are financially evaluated then the L1, L2 and L3 bidders shall be
	eligible for e-RA). Number of bidders eligible for participating in RA would be rounded off to next higher
	integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA
	will be conducted amongst L1 to L4).
	However, in case only two bidders are found to be responsive, e-RA would be carried out with both the parties
	without any elimination. However, OPTCL reserves the right to invite the evaluated L1 bidder for negotiation
	without conducting the e-RA.
	In case of price submitted by any bidder is found to be abnormal, OPTCL reserves the right to reject the bid of
	the bidder(s).
	Rank of bidders would be displayed as per the total cost to OPTCL, i.e including Taxes and Duties payable by
	OPTCL as per the provisions of the biding document & after e-RA process is over.
7	Names of bidders/ vendors shall not be disclosed during the e-RA process. Names of bidders/ vendors shall be
	anonymously masked in the e-RA process.
	(i) In case of RA, start/ reference price and step value of decrement shall be indicated to the bidders at the start of
	the auction. Any participating bidder can bid one or multiple step decrement lower than the prevailing lowest bid
	at that time. The Bidder shall be able to view Bid Start Price, Bid Decrement Value, Prevailing Lowest Bid
	value, last Bid Placed by him and time left for bidding.
	(ii) The step value of decrement in a package to be offered by bidder (the minimum amount of reduction in the
	total bid price including all taxes & duties during auction), shall be kept at 0.15% of L1 bidder's final
	evaluated price (or) at approved amount as decided by OPTCL.
	(iii) Bidders can only quote any value lower than their previous quoted price. However, at no stage, increase in
	Price will be permissible.
	(iv) At any point during Reverse Auction, bidding Price field shall remain enabled for the bidders. The reverse
	auction period shall be unlimited and the initial auction period (1 <sup>st</sup> slot) will be of thirty (30) minutes with
	provision of auto extension by (10) ten minutes from the schedule/ extended closing time. If any fresh lower bid
	is received in last ten minutes of initial auction period or extended auction period, the auction shall get extended
	automatically for another 10 minutes. In case, there is no bid received during schedule/extended slot, the auction
	shall get closed automatically without further extension.
	(v) However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the
	period of e-reverse auction to avoid complication related with internet connectivity, network problem, system
	crash down, power failure etc.
8	After conclusion of e-Reverse Auction i.e (Closing Price in Reverse Auction will be taken as offered price by the
	L1 bidder), decrease in price of individual head of the template shall be considered proportionately on all
	individual line items of the respective head of the price schedule of the successful L1 bidder.
	Any bid received at the tender wizard server end subsequent to closure of the e-RA shall be summarily rejected

	and shall not be considered as a valid bid under whatsoever circumstances. For this purpose, tender wizard server
	log shall prevail.
	The bidder shall not involve himself or any of his representatives in price manipulation of any kind directly or
	indirectly by communicating with other bidders.
	During Reverse Auction, If no bid is received within the specified time, OPTCL, at its discretion, may decide to
	close the reverse auction process/ proceed with conventional mode of tendering [ Evaluation of Part-II (price bid)
	submitted by bidders earlier].
9	Consequent upon completion of e-Reverse Auction, OPTCL's decision on award of contract shall be final and
	binding on the bidders. OPTCL shall be at liberty to call the L1 bidder for further process/ negotiation and also at
	liberty to cancel the e-reverse auction process/ re-tender at any time, without assigning any reason thereof.
	OPTCL can decide to reschedule or cancel any reverse auction: the bidders shall be informed accordingly.
	OPTCL/ Service Provider shall not have any liability to bidders for any interruption or delay in access to the e-
	Tender site/ Reverse Auction link irrespective of the cause.

# (II) Weightage shall be given to the Following factors in the Evaluation & Comparison of Bids.

In comparing bids and in making awards, the Purchaser will consider other factors such as compliance with Specification, minimum qualification criteria as per clause-30, outright rejection of tenders clause-34 of this tender, relative quality, adaptability of Supplies or services, experience, financial soundness, record of integrity in dealings, performance of materials/equipment earlier supplied, ability to furnish repairs and maintenance services, the time of delivery, capability to perform including available facilities such as adequate shops, plants, equipment and technical organization.

(III) The local MSE (In the state of Odisha) bidders shall be required to furnish their willingness to match their bid price with that of the lowest evaluated bidder without any price preference and in case they agree, they shall be eligible to get up to 30% of the tendered quantity to be distributed suitably among the willing MSE bidders failing which the said 30% of the tendered quantity be awarded to the lowest evaluated bidder.

# 30. (A) <u>Minimum Qualification Criteria of Bidders for Isolators & spares.(LOT-I, II & III)</u> All the prospective bidders are requested to note that their bids for tendered equipment can only be considered for evaluation if:

- a) The bidder should have manufacture and supply experience of above rated or higher capacity equipment during last **5** (Five) years reckoned from the date of opening of bid.
- b) At least 50% of the tendered quantity of above rated or higher capacity equipment should have been supplied during last **5** (**Five**) years reckoned from the date of opening of bid.
- c) The above supplied equipment should have at least 2 (Two) years successful performance during the above 5 (Five) years period from the date of opening of bid. At least one of the performance certificates shall be submitted from Govt. of India / State Govt.(s) or their undertakings.
- d) The bidder should have conducted type tests on the tendered equipment in the Government approved laboratory (CPRI/ERDA) within 10 (Ten) years from the date of opening of the tender provided no major change has been introduced in basic design / technology / material / mechanical construction / performance / characteristics / manufacturing process of equipment after the date of type test.

## (B) Minimum Qualification Criteria of Bidders for Isolator Mechanism Boxes (LOT-IV).

- a) The bidder must be a manufacturer of Isolators of 33 KV and above and must have manufacture and supply experience of above rated or higher capacity Isolators during last 5 (Five) years reckoned from the date of opening of bid.
- b) At least 50% of the tendered quantity of above rated or higher capacity Isolators with mechanism box or mechanism box to be considered together should have been supplied during last 5 (Five) years reckoned from the date of opening of bid.
- c) The above rated or higher capacity Isolators should have at least **2** (**Two**) years successful performance during the above **5** (**Five**) years period from the date of opening of bid. At least one of the performance certificates shall be submitted from Govt. of India / State Govt.(s) or their undertakings.
- d) The bidder should have conducted type tests on the tendered equipment in the Government approved laboratory (CPRI/ERDA) within 10 (Ten) years from the date of opening of the tender provided no major change has been introduced in basic design / technology / material / mechanical construction / performance / characteristics / manufacturing process of equipment after the date of type test.

#### 31.0 <u>Registration certificate of DPIIT:</u>

As per Office Memorandum No.F.No.6/18/2019-PPD, Ministry of Finance, Dept. of Expenditure Public Procurement Division, New Delhi and Office Memorandum No. FIN-CON-MISC-0007/2019/27945/F Dated.16.10.2020 of Finance Department, Govt. of Odisha "Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether goods, services (Including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority, DPIIT (i.e. Department for Promotion of Industry and Internal Trade)". Pursuant to decision of Govt. of India prescribing imposition of restriction on public procurement from bidders of certain countries on ground of defence of India or matters directly or indirectly related thereto, the Office Memorandum No. 4939/F, dated: 13.02.2012 of Finance Department, Govt of Odisha has been amended vide Office Memorandum No 27945 Dtd 16.10.2020 by inserting sub-para-3 (vii) to para-3 thereof. Prescribing the restriction on procurement made by the State Govt., State Public Sector Undertaking including local bodies etc. and directing no procurement shall be made in violation of such restrictions, it is hereby clarified that the provisions of the same shall be applicable for the tenders for works/procurement/Service in OPTCL in both ongoing (Techno-Commercial bid not opened) and future tenders.

The tender documents of OPTCL shall contain following additional clauses and certificate formats.

- A. To be incorporated as qualifying requirement of bidder /certificates in case of tenders for Works (including Turn-key works)
- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as per requirement of Govt. of India.
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any company, including any member of a consortium or joint venture (that is a company ),
- III. "Bidder from a country which shares a land border with India" for the purpose of this Order means :
  - a. An entity incorporated, established or registered as company in such a country ; or
  - b. A subsidiary company of an entity incorporated, established or registered in such a country ' or
  - c. An entity substantially controlled through entities incorporated , established or registered in such a country ; or
  - d. An entity whose beneficial owner is situated in such a country ; or
  - e. An Indian (or other) agent of such an entity ; or
  - f. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

IV. The beneficial owner for the purpose of (iii)(d) above will be as under :

1. In case of a company the beneficial owner is the natural person(s), who, whether acting along or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

#### 2. Explanation-

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits or the company.
- b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreement;
- 3. Where no natural person is identified under (1) above, the beneficial owner is the relevant natural person who hold the position of senior managing official;
- V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

#### Certificate ( to be furnished in bidder company's letter head)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable evidence of valid registration by the Competent Authority shall be attached.

- **B.** To be incorporated as qualifying requirement of bidder /certificates in case of tenders for procurement of goods/services(including consultancy and non-consultancy)
- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as per requirement of Govt. of India
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated herein before, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder from a country which shares a land border with India" for the purpose of this Order means :
  - a. An entity incorporated, established or registered in such a country ; or
  - b. A subsidiary of an entity incorporated, established or registered in such a country ' or
  - c. An entity substantially controlled through entities incorporated , established or registered in such a country ; or

- d. An entity whose beneficial owner is situated in such a country ; or
- e. An Indian (or other) agent of such an entity ; or
- f. A natural person who is a citizen of such a country ; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.
- IV. The beneficial owner for the purpose of (iii)(d) above will be as under :
  - 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting along or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

#### **Explanation-**

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits or the company.
- b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreement;
- 2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting along or together, or through one or more juridical person, has ownership or entitlement to more than fifteen per cent of capital or profits of the partnership;
- 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting along or together, or through one or more juridical person, his ownership of or entitlement to more than fifteen per cent of the property or capital or profits of such association or body of individuals ;
- 4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who hold the position of senior managing official;
- 5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen per cent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

#### Certificate ( to be furnished in bidder's letter head)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evident of valid registration by the Competent Authority shall be attached.]

# 32. Jurisdiction of the High Court of Orissa.

Suits, if any, arising out of this contract shall be filed by either Party in a court of Law to which the jurisdiction of High court of Orissa extends.

# 33. <u>Correspondences.</u>

- Any notice to the supplier under the terms of the contract shall be served by Registered Post or by hand at the Supplier's Principal Place of Business.
- ii) Any notice to the Purchaser shall be served at the Purchaser's Principal Office in the same manner.

# 34. Official Address of the Parties to the Contract

The address of the parties to the contract shall be specified:-

 [i] <u>Purchaser</u>: Senior General Manager (Procurement) (CPC) OPTCL Bhubaneswar-751022 (Orissa)

Telephone No. 0674 - 2541801

FAX No. 0674 - 2542964

[ii] **Supplier:** Address

Telephone No.

Fax No.

# 35. Outright Rejection of Tenders

Tenders shall be outrightly rejected if the followings are not complied with.

- [i] The tenderer shall submit the bid in electronic mode only and shall submit the tender cost on or before the date and time of submission of technical bid. In case of local Micro and small Enterprises(MSEs) registered with respective DICs, Khadi, Village, Cottage & Handicrafts Industries, OSIC and NSIC participating in the tender they have to submit notarised hard copy of valid registration as local MSE as above on or before the date and time of submission of technical bid.
- [ii] The tenderer shall submit the bid in electronic mode only
- [iii] The Tender shall not be submitted telegraphically or by FAX.
- [iv] The prescribed EMD shall be submitted on or before the date and time of submission of technical bid.
- [v] The Tender shall be kept valid for a minimum period of 180 days from the date of opening of tender.
- [vi] The Tender shall be submitted in two parts as specified.

- [vii] The Tenders shall be accompanied by a list of major supplies effected prior to the date of opening of tender. Data of at least 3 (three) years shall be furnished.
- [viii] The tenderer shall upload the scanned copy of latest type test certificates (for the tests, carried out on the tendered equipment, being offered). Such type tests should have been conducted within last five years from the date of opening of this tender in a Government approved laboratory (CPRI / ERDA) in presence of any Government Organisation's representative(s).
- [ix] The schedule of prices should be filled up fully to indicate the break-up of the prices including taxes and duties. Incomplete submission of this schedule will make the tender liable for rejection. <u>Vide Clause-4(ii) of Part-II.</u>.
- [x] The Tenderer should quote 'FIRM' price only and the price should be kept valid for a minimum period of 180 days from the date of opening of the tender.
- (xi) The tenderer shall upload the scanned copy legibly written user's certificate to prove the satisfactory operation of the offered equipment/materials for a minimum period of 3 (three) years from the date of commissioning/use as per the tender specification. User's certificate shall include the detailed address of the user with Equipment/Material, Name and type as per this specification, number of years of satisfactory use/operation & date of issue of this user's certificate with official seal written in English only & clearly visible must be furnished. At least one of the user's certificates shall be from state or Central Govt. or their Undertakings.
- (xii) Guaranteed Technical particulars & Abstract of terms and Conditions should be filled in completely.
- (xiii) (a) Detailed information on any litigation or arbitration arising out of contract completed or under execution by it over the last five years. A consistent history of litigation by or against the bidder may result in rejection of bid.
  - (b) The bidder should not have any pending litigation or arbitration with OPTCL with regard to any project or related activity. The bidder should certify/declare the same in unequivocal terms by way of an affidavit duly sworn before a magistrate/notary. Bid furnished by the bidder shall not be eligible for consideration if it is not accompanied by the affidavit. Further, the bid/LOA/LOI shall liable for outright rejection/cancellation at any stage if any information contrary to the affidavit/declaration is detected.
- 36. Documents to be treated as confidential.

The supplier shall treat the details of the specification and other tender documents as private and confidential and these shall not be reproduced without written authorization from the Purchaser.

# 37. Scheme/Projects

The materials/equipment covered in this specification shall come under "O&M WORKS"

## SECTION – III [LIST OF ANNEXURES]

The following schedules and proforma are annexed to this specification and contained in Section-III as referred to in the relevant clauses.

2.     Reverse Auction Process Compliance Form     ANNEXURE-IB       3     Abstract of terms and conditions to accompany Section-II of     ANNEXURE-II       4     Schedule of Quantity and Delivery     ANNEXURE-III       5     Abstract of price component     ANNEXURE-IV       6     Schedule of prices     ANNEXURE-V       7     Bank Guarantee form for earnest money deposit     ANNEXURE-VI       8     Composite Bank Guarantee form for security deposit, payment and performance     ANNEXURE-VII       9     Chart showing particulars of E.M.D.     ANNEXURE – VIII       10     Data on Experience.     ANNEXURE-X       12.     Schedule of Installations.     ANNEXURE-XII       13     Schedule of deviations (Technical)     ANNEXURE-XII (A)       14.     Schedule of deviations (Commercial)     ANNEXURE-XIII       15     Litigation /Arbitration     ANNEXURE-XIV	1	Declaration form	ANNEXURE-I
4     Schedule of Quantity and Delivery     ANNEXURE-III       5     Abstract of price component     ANNEXURE-IV       6     Schedule of prices     ANNEXURE-V       7     Bank Guarantee form for earnest money deposit     ANNEXURE-VI       8     Composite Bank Guarantee form for security deposit, payment and performance     ANNEXURE-VII       9     Chart showing particulars of E.M.D.     ANNEXURE – VIII       10     Data on Experience.     ANNEXURE – IX       11.     Schedule of spare parts.     ANNEXURE-XI       12.     Schedule of deviations (Technical)     ANNEXURE-XII (A)       14.     Schedule of deviations (Commercial)     ANNEXURE-XIII (B)       15     Litigation /Arbitration     ANNEXURE-XIII	2.	Reverse Auction Process Compliance Form	ANNEXURE-IB
5Abstract of price componentANNEXURE-IV6Schedule of pricesANNEXURE-V7Bank Guarantee form for earnest money depositANNEXURE-VI8Composite Bank Guarantee form for security deposit, payment and performanceANNEXURE-VII9Chart showing particulars of E.M.D.ANNEXURE – VIII10Data on Experience.ANNEXURE – IX11.Schedule of spare parts.ANNEXURE-XI12.Schedule of Installations.ANNEXURE-XII13Schedule of deviations (Technical)ANNEXURE-XII (A)14.Schedule of deviations (Commercial)ANNEXURE-XIII (B)15Litigation /ArbitrationANNEXURE-XIII	3	Abstract of terms and conditions to accompany Section-II of	ANNEXURE-II
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15 Litigation /Arbitration   ANNEXURE-XIII	13	Schedule of deviations (Technical)	ANNEXURE-XII (A)
	14.	Schedule of deviations (Commercial)	ANNEXURE-XII (B)
16. DPIIT Certificate ANNEXURE-XIV	15	Litigation /Arbitration	ANNEXURE-XIII
	16.	DPIIT Certificate	ANNEXURE-XIV

# <u>ANNEXURE - I</u> DECLARATION FORM

The SENIOR. General Manager (CPC)

OPTCL Head Qrs.BBSR,751022

Sub:- Tender Specification No-\_\_\_\_\_

Sir,

То

- 1. Having examined the above specification together with terms & conditions referred to therein \* I/We the undersigned hereby offer to supply the materials/equipment covered therein complete in all respects as per the specification and General conditions, at the rates, entered in the attached contract schedule of prices in the Tender.
- 2. \* I/We hereby undertake to have the materials/equipment delivered within the time specified in the Tender.
- 3. \* I/We hereby guarantee the technical particulars given in the Tender supported with necessary reports from concerned authorities.
- 4. \* I/We certify to have submitted the bid electronically by remitting \*cash/money order/D.D./ remitting the cost of tender, herewith and this has been acknowledged by your letter/ money receipt No. Dated,
- 5. In the event of Tender, being decided in \*my/our favour, \* I/We agree to furnish the Composite B.G. in the manner, acceptable to ODISHA POWER TRANSMISSION CORPORATION LTD., and for the sum as applicable to \*me/us as per clause-19 of section-II of this specification within 15 days of issue of letter of intent/purchase order failing which \*I/We clearly understand that the said letter of Intent/Purchase order will be liable to be withdrawn by the purchaser, and the EMD deposited by us shall be forfeited by OPTCL.

# 6. Bid Security Declaration

\*I/We further declare that, we will not modify/withdraw the bid after opening of techno-commercial bid(i.e. part-I bid) during its validity period and in such an event we agree that OPTCL would be free to debar us from participating in the tenders floated by OPTCL for a period of three years.

7.

Signed this

day of

2022

Yours faithfully Signature of the Tenderer with seal of the company

[This form should be dully filled up by the tenderer and uploaded at the time of submission of tender.]

\* (Strikeout whichever is not applicable).

# <u>ANNEXURE-IB</u> (Reverse Auction Process Compliance Form)

(To be incorporated in the bid document).

(To be submitted on letter head of the bidding company with sign and stamp and along with Technical bid)

To,

Sr. General Manager (CPC), OPTCL Bhubaneswar-751010, Odisha

Sub: Agreement to the Process related Terms & Conditions for e-Reverse Auction. Dear Sir,

This letter is to confirm that:

• The undersigned is authorized representative of the company.

• We have studied the Commercial Terms and the Business rules governing the Reverse Auction as mentioned in your tender and confirm our agreement to that.

• We also confirm that we have gone through the auction manual and have understood the functionality of the same thoroughly.

• We, hereby, confirm that we will honour the Bids placed by us during the tendering/ e-Reverse auction process as called as e-RA.

• We also confirm that we will accept our Rank / Position that will be displayed when the Bidding Time for the Online Reverse Auction is over.

With regards,

Signature with Designation with company seal Name & Address Person having power of attorney for the subject package.

# **ANNEXURE-II**

# ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT [COMMERCIAL] (To be filled up by the tenderer as indicated in the excel sheet)

1	Whether the material/equipment offered conforms to the OPTCL'S specification (If not, specify the deviations in Annexure).	Yes/No
2.a.i	Cost of Tender Document:	Submitted/Not submitted
2.a.ii	OPTCL Money Receipt No. & Date / D.D No & Date.	
2.b.i	Earnest money furnished.	Submitted/Not submitted
2.b.ii	Bank Guarantee No. & Date / D.D No. & Date.	
2.c.i	Tender Processing Fee:	Submitted/Not submitted
2.c.ii	D.D No. & Date.	
3	Manufacturer's supply experience including user's certificate uploaded or not. [As per clause No.7 of Section-II.]	Yes/No
4.a.i	Commercial Deviations to the specification if any	Yes/No
4.a.ii	If Yes, [list uploaded or not, As per clause-9 of the Section-II	Yes/No
4.b.i	Technical Deviations to the specification if any	Yes/No
4.b.ii	If Yes, list uploaded or not, As per clause-9 of the Section-II	Yes/No
5	Delivery (Period in months from the date of issue of PO)	
6	Guarantee: - Whether agreeable to OPTCL's terms [As per clause-18 of Section-II].	Yes/No
7	Whether agreeable to furnish Composite B.G. in case his tender be successful [As per clause-19 of Section-II]	Yes/No
8	Terms of payment:- Whether agreeable to OPTCL's terms or not [As per clause-21 of Section-II]	Yes/No
9	Nature of price:- FIRM	Yes/No
10	Price Reduction: - Whether agreeable to OPTCL's terms or not (As per clause- 22 of Section-II)	Yes/No
11	Whether STCC/ P&L A/C, Balance Sheet for the required period are uploaded as per clause-25 of Section-II	Yes/No
12	Validity: - Whether agreeable to OPTCL's terms or not[As per clause-28 of Section-II]	Yes/No
13	Whether recent type test certificates from any Government approved laboratory is uploaded or not. [As per clause-30[viii] of section-II]	Yes/No
14	Whether guaranteed technical particulars are uploaded or not	Yes/No
15	Whether dimensional design/drawings uploaded or not	Yes/No
16	Whether materials are ISI/ISO marked.	Yes/No
17	Manufacturer's name and its trademark	
18	Whether registered under GST Laws.	Yes/No
19	Whether declaration form, duly filled in, uploaded or not	Yes/No

# ANNEXURE-III SCHEDULE OF QUANTITY AND DELIVERY

	ed up by the tenderer)	<u> </u>			
SL	Description of materials	Quantity	Desired	Destinatio	Remarks.
No		required	Delivery	n	
1	2	3	4	5	6

Signature of Tenderer with seal of Company

# ANNEXURE-IV

(To be filled up by the tenderer as indicated in the excel sheet)

NB:- Abstract of price component shall be done for equipment/material offered, for testing & commissioning charges, if any. All the above prices will be taken during bid price evaluation.

Sl.No.	Description	To be filled by the bidder.
1	Price basis	F.O.R. Purchaser's destination
		Stores/site.( Taxable value including
		packing forwarding, Freight,
		Insurance, unloading)
2	HSN Code of the Item	
3	GST Identification Number (GSTIN) of the firm	
4	Whether Intra-state supply(i.e. from inside	
	Odisha) or Inter-state supply( i.e from outside	
	Odisha). select from dropdown list	
5	Rate of CGST	
6	Rate of OGST.	
7	Rate of IGST.	
8	Rate of Goods and Services Tax on supervision of	
	erection testing and commissioning	
9	Nature of price.	

_			
	10	We hereby undertake and declare that implication	Agreed
		of lower Tax and Input Tax Credit benefit as per	
		anti-profiteering (under Section 171 of CGST	
		Act) and other provisions under GST Laws have	
		been fully passed on to the purchaser while	
		quoting the price.	
	11	Any imposition of new tax or revision of tax shall	
		be paid/reimbursed at the time of dispatch,	
		scheduled or actual whichever is lower (i.e. If	
		delivery is within schedule period, tax variation as	
		applicable shall be paid, and if delivery is made	
		beyond schedule date, any additional financial	
		implication due to statutory variation in tax shall	
		be to bidder's account). (Indicated- Yes/No)	

To be filled up by the tenderer as indicated in the excel sheet of techno-commercial bid)

NB:- Abstract of price component shall be done for equipment/material offered, for testing & commissioning charges, if any. All the above prices will be taken during bid price evaluation.

Place: Date: Signature of the Bidder with seal of the company.

# ANNEXURE-V.

(*To be filled up by the tenderer as indicated in the excel sheet*) NB: -

1. The tenderer should fill up the price schedule properly in Excel file in e-tender mode. The tender will be rejected, if the price bid is not submitted in accordance with the price schedule. No post tender correspondence will be entertained on break-up of prices. Also, the supplier should agree for delivery at the desired site.

2. The Tenderer shall give an undertaking in part-I of the bid that, entire implication of lower Tax and Input Tax Credit benefit have been fully passed on to the purchaser as per anti-profiteering and other provisions under GST Laws while quoting the tender price.

3. Conditional offers will not be acceptable.

#### ANNEXURE-VI

#### [PROFORMA FOR BANK GUARANTEE FORM FOR EARNEST MONEY DEPOSIT]

# (To be Stamped in accordance with Stamp Act and the Non-Judicial Stamp Paper of appropriate value should be in the name of Issuing Bank)

Ref No: .....

Bank Guarantee No. ..... Date:..... BG Amount:..... Validity Period:.....

This	Guarantee	Rond	ic	evecuted	this		dav	of		hv	116
							•				
the				Rank at		PO			, Dist		
						, 1.0.	•••••	•••••	······ , Dist	•••••	•••••
State		ar	dC	'ode No							
State.	•••••	••••• ui	iu C	oue 110	•••••						

- 2. We, the \_\_\_\_\_\_ [indicate the name of the Bank, Address, Code] do hereby further undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from OPTCL. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs......(Rupees in words......)
- 3. We undertake to pay to OPTCL any money so demanded not withstanding any dispute or disputes so raised by the bidder in any suit or proceeding instituted/pending before any court or tribunal

relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the bidder shall have no claim against us for making such payment.

- 4. We, the \_\_\_\_\_\_ Bank further agree that the guarantee herein contained shall remain in full force and effect during the aforesaid period of \_\_\_\_\_\_ days [in words].......... (as per Tender Specification) and it shall continue to be so enforceable till all the dues of OPTCL under or by virtue of the said Bid have been fully paid and its claims satisfied or discharged or till OPTCL certifies that the terms and conditions of the said Bid have been fully and properly carried out by the said bidder and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us or our Branch Office at Bhubaneswar <Mention Name, Address & Code of the Branch Office at Bhubaneswar of Issuing Bank> in writing on or before \_\_\_\_\_\_ we shall be discharged from all liability under this guarantee thereafter.
- 5. We the \_\_\_\_\_\_ Bank further agree with OPTCL that OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Bid or to extend time of performance by the said Bidder from time to time or to postpone for any time or from time to time any of the powers exercisable by OPTCL against the said Bidder and to forbear or enforce any of the terms and conditions relating to the said Bid and we shall not be relieved from our liability by reason of any such variation, postponement or extension granted to the Bidder or for any forbearance, act or omission on the part of OPTCL or any indulgence by OPTCL to the said Bidder or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of so relieving us.

6 This guarantee will not be discharged due to the change in the name, style and constitution of the Bank and/or of the Bidder.

7 We \_\_\_\_\_ [indicate the name of Bank, Address &Code] lastly undertake not to revoke this guarantee during its currency except with the previous consent of OPTCL in writing

8. We, the \_\_\_\_\_\_Bank (Name, Address & Code) further agree that this guarantee shall also be invokable at our place of business at ----- Branch of Bhubaneswar (indicate Name, Address & Code of the Branch at Bhubaneswar) in the State of Odisha."

# "Notwithstanding anything contained herein"

b) This Bank guarantee shall be valid up to -----.

c) We or our Branch at Bhubaneswar <Mention Name, Address & Code.....> shall be liable to pay guaranteed amount or any part thereof under this guarantee only if you serve upon us at------Branch of Bhubaneswar a written claim or demand on or before ......

The Bank Guarantee is issued in paper form and Advice transmitted through SFMS with required details to the beneficiary's advising bank (ICICI Bank Bhubaneswar, IFSC Code ICIC0000061).

Dated, the \_\_\_\_\_Day of \_\_\_\_\_

For \_\_\_\_\_ [Indicate name of Bank]

Signature
Full name
Designation
Power of Attorney No.
Date
Seal of the Bank

<del>N.B.:</del>	
1	Name of the Bidder.:
2.	BG No & Date :
3	Amount (In Rs.):
4	Validity up to :
5	E-NIT No
<del>6.</del>	Package/Works No
7	Name, Address & Code of Issuing Bank:
8.	Name, Address & Code Bhubaneswar Branch of the Issuing Bank:
9	The Bank Guarantee shall be accepted after getting SFMS advice as per details below.

# Format for SFMS details

# (The Unique Identifier for field 7037 is "OPTCL541405793")

<del>Sl. No</del>	PARTICULARS	TYPE	<b>DETAILS</b>	
-------------------	-------------	------	----------------	--

1	Type of Bank Guarantee	Mandatory	EMD
2	Currency & Amount	Mandatory	
3	Validity Period(from to)	Mandatory	
4	Effective Date	Mandatory	
5	End date of lodgment of Claim	Mandatory	
6	Place of lodgment of claim	Mandatory	Bhubaneswar,
			-Branch Name of
			Bhubaneswar
			-Branch code of
			Bhubaneswar
			Branch Address at
			Bhubaneswar
7	Issuing Branch IFSC Code	Mandatory	
8	Issuing Branch name & address	Mandatory	
9	Name of applicant and its	Mandatory	
	details		
10	Name of Beneficiary and its	Mandatory	
	<del>details</del>		
11	Beneficiary's Bank/Branch and	Mandatory	ICICI Bank Ltd
	IFSC Code		IFSC Code ICIC0000061
12	Beneficiary's Bank/Branch	Mandatory	ICICI Bank Ltd
	name and address		Bhubaneswar Main
			Branch, Bhubaneswar
13	Sender to receiver information	Mandatory	
14	Purpose of Guarantee	Mandatory	EMD
15	Reference/Description of the	Mandatory	NIT No
	underlined tender/contract		

## ANNEXURE-VII

#### [PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT PAYMENT

#### AND PERFORMANCE]

# (To be stamped in accordance with Stamp Act and the Non-Judicial stamp paper of appropriate value should be in the name of the Issuing Bank.)

**Ref No:-** .....

Bank Guarantee No
Date:
BG Amount:
Validity Period:

This	Guarantee	Bond	is	executed	this	day	of	•••••	by	us
the				Bank at	, P.O.			, Dist		,
State.		ar	nd C	ode No						

[Indicate bank Name , Address & Code ] (hereinafter referred to as "the Bank") at the request of M/s/Shri \_\_\_\_\_\_ contractor do hereby undertake to pay to OPTCL, an amount not exceeding Rs.\_\_\_\_\_\_) only .

- 2. We, the \_\_\_\_\_\_ Bank [indicate the name of the Bank, Address & Code] do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from OPTCL. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_(Rupees--\_\_\_\_\_In Words).
- 3. We, the ...... Bank also undertake to pay to OPTCL any money so demanded not withstanding any dispute or disputes raised by the Contractor in any suit or proceeding instituted / pending before any court or tribunal relating thereto, our liability under this present being absolute

and irrevocable. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor shall have no claim against us for making such payment.

4. We, the \_\_\_\_\_\_ Bank further agree that the guarantee herein contained shall remain in full force and effect during the aforesaid period of \_\_\_\_\_\_ days and it shall continue to be so enforceable till all the dues of OPTCL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till OPTCL certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor and accordingly discharges this guarantee.

Unless a demand or claim under this guarantee is made on us or our Branch Office at Bhubaneswar </br><Mention Name, Address & Code of the Branch Office at Bhubaneswar of issuing Bank> in writing on or before ...... (Date), we shall be discharged from all liability under this guarantee thereafter.

- 5. We, the \_\_\_\_\_\_ Bank [indicate the name of the Bank, Address & Code] further agree with the Board that OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Bid or to extend time or performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by OPTCL against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Bid and we shall not be relieved from our liability by reason of any such variation postponement or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of OPTCL or any indulgence by OPTCL to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of so relieving us.
- 6. This guarantee will not be discharged due to the change in the name, style or constitution of the Bank and/or of the contractor(s).
- 7. We, the \_\_\_\_\_\_ Bank [indicate the name of the bank, Address & Code
   ] lastly undertake not to revoke this guarantee during its currency except with the previous consent of OPTCL in writing.
- 8. We, the \_\_\_\_\_Bank (Name, Address & Code) further agree that this guarantee shall also be invokable at our place of business at ----- Branch of **Bhubaneswar** (indicate Name, Address & Code of the Branch at Bhubaneswar) in the State of Odisha.

# "Notwithstanding anything contained herein"

b) This Bank guarantee shall be valid up to -----.

c) We or our Branch at **Bhubaneswar** <Mention Name, Address & Code.....> shall be liable to pay guaranteed amount or any part thereof under this guarantee only if you serve upon us at------Branch of Bhubaneswar a written claim or demand on or before .....,

The Bank Guarantee is issued in paper form and Advice transmitted through SFMS with required details to the beneficiary's advising bank (**ICICI Bank Bhubaneswar**, IFSC Code ICIC0000061).

Dated,	theDay of
For	[Indicate name of Bank]
Signat	ure
Full N	ame
Design	nation
Power	Of Attorney
Dated.	
Seal of	f the Bank
WITN	ESS: (SIGNATURE WITH NAME AND ADDRESS)
1. Sign	nature
Full	Name
2. Sign	nature
Full	Name
N.B.:	
1.	Name of the Contractor.
2.	BG No & Date :
3.	Amount (In Rs.):
4.	Validity up to :
5.	LOA No
6.	Package No
7.	Name, Address & Code of Issuing Bank:
8.	Name, Address & Code of Bhubaneswar Branch of the Issuing Bank:
10.	The Bank Guarantee shall be accepted after getting SFMS advice as per details below.

# Format for SFMS details

	-		-
Sl. No	PARTICULARS	TYPE	DETAILS
1	Type of Bank Guarantee	Mandatory	Contract Performance
2	Currency & Amount	Mandatory	
3	Validity Period(from—to)	Mandatory	
4	Effective Date	Mandatory	
5	End date of lodgment of Claim	Mandatory	
6	Place of lodgment of claim	Mandatory	Bhubaneswar,
			Branch Name of
			Bhubaneswar
			Branch code of
			Bhubaneswar
			Branch Address at
			Bhubaneswar
7	Issuing Branch IFSC Code	Mandatory	
8	Issuing Branch name & address	Mandatory	
9	Name of applicant and its	Mandatory	
	details		
10	Name of Beneficiary and its	Mandatory	
	details		
11	Beneficiary's Bank/Branch and	Mandatory	ICICI Bank Ltd
	IFSC Code		IFSC Code-ICIC0000061
12	Beneficiary's Bank/Branch	Mandatory	ICICI Bank Ltd
	name and address		Bhubaneswar Main
			Branch, Bhubaneswar
13	Sender to receiver information	Mandatory	
14	Purpose of Guarantee	Mandatory	Contract Performance
15	Reference/Description of the	Mandatory	LOA No
	underlined tender/contract		

# (The Unique Identifier for field 7037 is "OPTCL541405793")

### **ANNEXURE-VIII**

#### [CHART SHOWING PARTICULARS OF EARNEST MONEY DEPOSIT FURNISHABLE BY

#### TENDERERS]

<del>1.</del>	Central and State Government Undertakings	Exempted
<del>2.</del>	All other inside & outside state units.	The amount of EMD as specified in the specification /Tender Notice in shape of bank guarantee /DD.

NB: - REFUND OF E.M.D.

- [a] In case of unsuccessful tenderers, the EMD will be refunded immediately after the tender is decided. In case of successful tenderer, this will be refunded only after furnishing of Composite Bank Guarantee referred to in clause No.19 of Section-II of this specification. Suits, if any, arising out of EMD shall be filed in a court of law to which the jurisdiction of High Court of ODISHA extends.
- [b] Earnest Money will be forfeited if the tenderer fails to accept the letter of intent/purchase order, issued in his favour or revises the bid price[s] within the validity period of Bid.

# ANNEXURE-IX

### DATA ON EXPERIENCE

- [a] Name of the manufacturer.
- [b] Standing of the firm as manufacturer of equipment quoted.
- [c] Description of equipment similar to that quoted [supplied and installed during the last two years with the name of the organizations to whom supply was made].
- [d] Details as to where installed etc.
- [e] Testing facilities at manufacturer's works.
- [f] If the manufacturer is having collaboration with another firm, details regarding the same and present status.
- [g] A list of purchase orders, executed during last three years.

[h] A list of similar equipment of specified MVA rating, voltage class, Impulse level, short circuit rating, Designed, manufactured, tested and commissioned which are in successful operation for at least two years from the date of commissioning with legible user's certificate. User's full complete postal address/fax/phone must be indicated. (Refer clause No.7 of the Part-I, Section-II of the specification).

Place:

Date:

Signature of tenderer Name, Designation, Seal

#### ANNEXURE-X

# SCHEDULE OF SPARE PARTS FOR FIVE YEARS OF NORMAL OPERATION & MAINTENANCE

SL. No	Particulars	Quantity	Unit delivery rate	Total price

Place: Date:

Signature of Tenderer Name, Designation, Seal

# <u>ANNEXURE-XI</u> <u>SCHEDULE OF INSTALLATIONS</u>.

	Place of installation and		of
	complete postal address	commissioning	

Place: -

Date

Signature of Tenderer: Name, Designation, Seal

# <u>ANNEXURE-XII</u> DEVIATION SCHEDULE.

# Tenderer shall enter below particulars of his alternative proposal for deviation from the specification, if any.

# (A) Technical deviations

(To be filled up by the tenderer as indicated in the excel sheet)

# **B)** Commercial deviations.

(To be filled up by the tenderer as indicated in the excel sheet)

Place: -Date

Signature of Tenderer: Name, Designation, Seal

### <u>ANNEXURE – XIII</u> LITIGATION HISTORY

Year.	Award for against bidde	cause	of lit matte	,	Disputed (current Rs.)	

Place: -Date

Signature of Tenderer: Name, Designation, Seal

# ANNEXURE-XIV

# Certificate ( to be furnished in bidder company's letter head)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable evidence of valid registration by the Competent Authority shall be attached.]

Authorized signatory

Company seal

# <u>PART – II</u> <u>PRICE BID</u>

# 1. PRICE:

(i) Bidders are required to quote their price(s) for goods offered indicating they are 'FIRM'

(ii) The prices quoted shall be FOR Destination only at the consignee's site/store inclusive of packing, forwarding, Freight & Insurance. In addition, the break-up of FOR Destination price shall be given as per schedule of Prices in Annexure-V of Section – III. The Bidders has to certify in the price bid that any implication of lower Tax and Input Tax Credit benefit as per anti-profiteering and other provisions under GST Laws, have been fully passed on to the Purchaser, while quoting the tender prices.

# 2. INSURANCE:

Insurance of materials/equipment, covered by the Specification should normally be done by the Suppliers with their own Insurance Company unless otherwise stated. The responsibility of delivery of the materials/equipment at destination stores/site in good condition rests with the Supplier. Any claim with the Insurance Company or Transport agency arising due to loss or damage in transit has to be settled by the Supplier. The Supplier shall undertake free replacement of equipment/materials damaged or lost which will be reported by the Consignee within 30 days of receipt of the equipment/materials at Destination without awaiting for the settlement of their claims with the carriers and underwriters.

# **3. CERTIFICATE FOR EXEMPTION FROM GOODS AND SERVICES TAX:**

Offers with exemption from Goods and Services Tax shall be accompanied with authenticated proof of such exemption. Authenticated proof for this clause shall mean Photostat copy of exemption certificates, attested by Gazetted Officers of State or Central Government.

# 4. PROPER FILLING UP OF THE PRICE SCHEDULE:

The Bidders should fill up the price schedule (Annexure-V of Section-III) properly and in full. The tender may be rejected if the schedule of price is submitted in incomplete form as per clause-34 (ix) of Section-II of the Specification.

# 5. NATURE OF PRICE INDICATED IN SPECIFICATION SHALL BE FINAL.

The nature of price indicated in the Clause-13, Section – I of PART –I of the Specification shall be final and binding.

# SECTION-IV

# TECHNICAL SPECIFICATION FOR PROCUREMENT OF ISOLATORS, SPARES AND ISOLATOR MECHANISM BOX & IT'S RETO-FITTING.

## SECTION-IV

# **TECHNICAL SPECIFICATION OF ISOLATORS**

Sl.N	Туре	400KV	220KV	132KV	33KV	
O.						
1	Main Switch	НСВ		DBCR		
2	Service		Outo	loor		
3	Applicable standard	IS : 9	9921 / IEC-12	9/IEC-62271-	-102	
4	Pole		3 pole gan	g operator		
5	Rated voltage nominal / maximum	400/420	220/245	132/145	33/36	
6	Rated frequency		50 HZ	<u>+</u> 5%	·	
7	System earthing		effectivel	y earthed		
8	Temperature rise	Ası	per relevant IS	S/IEC publicat	ion	
9	Ins	sulation level impu	ilse with stand	l voltage		
(a)	Across Isolating distance (kV peak)	1665	1200	750	195	
(b)	To earthed & between	1425	1050	650	170	
10	poles (kV Peak	inute power freque	ency with star	nd voltage		
(a)	Across Isolating distance (kV Peak)	610	530	315	80	
(b)	To earthed & between poles (kV Peak	520	460	275	70	
11	Max. RIV for frequency between 0.5 MHz and 2 MHz	1000 at 267kV	1000 at 156kV	500 at 92kV		
12	Corona Extinction Voltage (kV)	320				
13	Rated current		200	0A	·	
14	Short time current for 3 sec	63KA	40KA	31.5KA	25KA	
15	Operating mechanism	Motor	Motor	Motor	Motor	
16(a)	Auxiliary voltage for control, interlock & indication	220V DC (80% to 110%)				
16(b)	Auxiliary voltage for Motor, heater, lamp & socket	415V, 3 phase, A	415V, 3 phase, AC, 50Hz/220V, 1 phase, AC, 50Hz			
17(a)	Safe duration of Over load(150% over load	5 minutes				

17(b)	Safe duration of Over	30 minutes						
	load(120% over load							
18		Inst	Insulator Data					
а	Bending Strength (kgf)	800	800	600	600			
b	Height (mm)	3650	2300	1500	508			
с	Bottom PCD (mm)	300	254	184	76			
d	Top PCD (mm)	127	127	127	76			
e	Minimum creepage distance of support and Rotating insulators	10500 mm	6125 mm	3625 mm	900 mm			
19	Phase to phase spacing	7000 mm	4500 mm	3000 mm	1500mm			
20	Mounting structure		Upright on steel	structure				
21	Terminal connector	Bimetallic if	pad is of copper or	else aluminur	n clamp as			
	type	per requireme	ent & rating					
22	Control	Local /	Local / Remote	Local /	Local			
		Remote		Remote				
23	Operating time	12 second	12 second or less	12 second	12 second			
		or less		or less	or less			
24	Earth Switch	Local(moto	Local(motorized)	Local(motor	Manual			
		rized) /	/ manual	ized) /				
		manual		manual				

#### **1.SCOPE**

This specification provides for design, manufacture, testing at manufacturer's works and delivery, supervision of erection, commissioning (if required) of following type.

(A) Outdoor type 400KV Horizontal Centre Break Isolator comprises three identical triple pole units which consists of galvanized rigid base made of distortion resistant structural steel having fixing arrangement with the supporting structure and also having two rotating bearing unit on both sides each base with interconnecting pipe fixing clamps for tandem and link pipe. Porcelain insulators made of composite stacks of rated capacity carrying male & female contact assembly are fixed on the rotating bearing unit of base of each pole. Two units of each pole interconnected by link pipes & finally, all three pole are connected to group operating pipe. Movement of group operating pipe for closing & opening operation of isolator is done by down pipe connected to the operating mechanism (Motor/Manual). Thus, all three poles of the Isolator shall be mechanically gang operated by a common operating mechanism to ensure that operations of all three poles are simultaneous.

Double Earth Switch should be provided i.e one on male side & another on Female side. On each side, E/S of all three poles are mechanically ganged with one common motor operating mechanism.

The earthing switches should be of non-ferrous materials especially of the same material as that of main switch assembly and able to carry the same fault current as assigned to the main disconnector and withstand the dynamic stresses.

If corona extinction voltage is to be achieved with the help of corona ring or any other similar device, the same shall be deemed to be included in the scope of the Supplier.

For each set of Isolator, two sets of clamp connector i.e. one set of clamp connector suitable for 4 inch bus bar & onset of clamp connector suitable for twin moose shall be deemed to be included in the scope of the supplier.

(B) The 220,132 & 33 KV Isolators shall be outdoor type with three phase double break centre rotating type [Single(SI) / Double(DI)] Isolators suitable for electrical as well as manual operation and local/remote operation. They shall have crank and reduction gear mechanism. Isolator rated for above 72.5 kV shall be of extended mechanical endurance class - M2 as per IEC-62271-102. Isolator rated for 72.5 kV and below shall be of extended mechanical endurance class - M1 as per IEC-62271-102. All earth switches shall be of M0 duty. All Isolators offered shall be suitable for horizontal upright mounting on steel structures. Each pole unit of the multiple Isolators shall be of identical construction and mechanically linked for gang operation.

Outdoor type 220KV /132KV /33KV, 3 phase triple pole double break gang operated centre rotating type (Single / Double) Isolator with / without earth switches, with electrical inter lock, insulators and complete in all respect with bimetallic / aluminium connectors arcing horns operating mechanism, auxiliary switches, indicating devices, fixing detail etc. as described herein after.

Each pole of the Isolator shall be provided with two sets of contacts to be operated in series and the moving contact blades shall rotate in horizontal plane.

The design shall be such that the operating mechanism with the linkages shall be suitable for mounting on any of the outer pole ends without much difficulty and with minimum shifting of parts. Moving contacts of all isolators shall rotate through 90 deg from their "fully closed position" to "fully open position so that the break is distinct and clearly visible from ground level.

The Isolators offered by the Bidder shall be designed for Normal rating current for Isolator

400kV	4 <del>20KV</del>	<del>220 kV</del>	132kV	33kV
2000A	<del>3150A</del>	<del>2000A</del>	2000A	2000A

It should suitable for continuous service at the system voltages specified herein. The Isolators shall be suitable to carry the rated current continuously and full short circuit current of 63/40/31.5/25 KA for 400/220/132/33 KV respectively for 3 second at site condition without any appreciable rise in temperature. These shall also be suitable for operation at 110% rated (normal) voltage. The Isolators shall be suitable for Isolating low capacitive / inductive currents of 0.7amp at 0.15 power factor. The isolators shall be so constructed that they don't open under the influence of short circuit conditions.

The Isolators and earthing switches are required to be used on electrically exposed installation and this should be taken into account while fixing the clearance between phases and between phase and earth.

#### 2. STANDARDS

Disconnecting switches covered by this specification shall conform to latest edition IEC- 62271-102 and unless specifically stated otherwise in this specification.

#### 1. MAIN CONTACTS (MALE AND FEMALE)

1.1. The dis-connector shall be having main current carrying parts of Aluminum / Electrolytic Copper arm as per standard type tested design of the manufacture to be capable for continuous rated normal current and short time SC Current in accordance with the Standard Technical Parameters.

1.2. The Isolator's male and female contact shall be made of silver faced copper or electrolytic copper alloy capable of carrying continuous rated normal current and short time SC Current as per Standard Technical Parameters. The current carrying fingers should be fixed with the main arm without any holding spring attachment to avoid flashing and damage of contact fingers for failure of the holding springs. The main and secondary contact assembly should not use springs for holding contact fingers or maintaining contact pressure.

1.3. The contacts and other current carrying parts shall also be so designed that their temperature rise under different operating conditions shall not exceed the value specified in IS: 9921. Temporary rise of temperature due to passage of specified rated short circuit current for all voltage classes shall not cause any annealing or welding of contact surfaces.

1.4. The female contacts of the horizontal type isolators shall consist of properly tempered copper strip/electrolytic copper alloy suitable for rated and short time current rating of the respective voltage class. The hard drawn electrolytic copper strips/ electrolytic copper alloy shall be silver plated of minimum 25 micron thickness.

1.5. The dimensions of the contacts should conform to the drawing approved during type test. However the current density of the current carrying parts shall not be more than the values specified below.

Current Density in Amps/sq. mm
--------------------------------

	Tubes	Flats
<b>Copper:</b>	2.5	2.0
Aluminum:	1.25	1.0

- 1.6. These fixed and moving contacts shall be able to carry the rated current continuously and the maximum fault current of 63/40/31.5/25 KA for 400/200/132/33KV respectively for 3 seconds without any appreciable rise in temperature. The Isolator blades shall retain their form and straightness under all conditions of operation including all mechanical stress arising out of operation as well as under rated short circuit condition.
- 1.7. The Isolator shall be self-cleaning type so that when Isolator remains closed for long periods in a heavily polluted atmosphere, binding does not occur. No undue wear or scuffing shall be evident during the mechanical endurance tests.

# 2. ARCING HORN AND GRADING HORN

Suitable arcing horn made of tinned electrolytic copper which are required for guiding contacts shall be provided on the fixed and moving contacts of all Isolators. The contacts shall be of 'make before and break after" type.

# 3. ELECTRICAL INTERLOCK / MECHANICAL INTERLOCK

The disconnecting switches whenever required shall be with an approved type electrical interlock for interlocking with the associated circuit breakers and earth switch. Electrical interlock assembly should be more right in construction and properly mounted to ensure reliable operation. The design should be such that the electrical circuit for the interlocking mechanism will only remain energized during operation of the switches.

# 4. AUXILIARY SWITCHES

All isolators and earthing switches shall be provided with 220V DC auxiliary switches for their remote position indication on the control board and for electrical locking with other equipment. The

auxiliary switch shall be provided with a minimum of ten auxiliary contacts-10 normally open and 10 normally closed and 10 normally open and 10 normally closed for earth switch. Separate auxiliary switches shall be provided for isolating and earth switches. 6 additional NO and NC contact to be provided as spare in each case.

The auxiliary switches and auxiliary circuits shall have a continuous current carrying capacity of at least 10 Amps. Auxiliary switches shall not be used as limit switches. Details of make, rating and type of limit switch shall be furnished in the offer.

#### 5. EARTH SWITCH

Line earth switch shall consist of three earthing blades for Isolator which normally rest against the frame when the connected Isolator is in closed position. The earthing blades for three phase shall be mechanically linked to a coupling shaft which shall be capable of being fitted on either side of the Isolator. The earthing blades shall match and be similar to the main switch blades and shall be provided at the hinge; with suitable flexible conductors at all moving points with terminal lugs to maintain a continuous path to the station ground bus. The earthing blades shall be operated by a separate mechanism but shall be mechanically interlocked with the main switch so that the earthing blades can be closed only when the main switches are in open position and vice-versa. The earthing blades shall be gang operated and all the three blades will operate simultaneously. 245 kV earth switches shall also comply with the requirements of IEC-62271-102, in respect of induced current switching duty as defined for Class-B and short circuit making capability class E-0 for earthing switches.

### 6. OPERATING MACHANISM

6.1. Control cabinet/operating mechanism box shall be made of **Stainless Steel Cubicle** of minimum **1.5 mm** thickness. The operating mechanism shall be simple and shall ensure quick and effective 10000 operations. The operating mechanism shall be strong rigid and not subject to rebound. The operating drive shall have minimum rated operating torque of 150 KGM. The angular rotation shall be transferred through the principle of vernier flange equipped with a universal joint.

6.2. The operating mechanism shall be located such that it can be directly mounted on the support structure. There shall be provision of Green colour visible marks on the mechanism box for easy identifying of the earth switch mechanism.

6.3. A position indicator to show the isolator is in ON or OFF position to be provided at a suitable location .6.4 The enclosure of the operating mechanism Box shall conform to the degree of protection IP- 55. ). The mechanism box shall have neoprene gasket hinged door at front with locking facility. All accessories inside the housing shall be easily accessible.

- 6.5 Linkage mechanism should be in built with **Teflon cup bushing** to accommodate minor misalignment & avoid rust in joints.
- 6.6 Insulator rotating arrangement should have **sealed double ball bearing** arrangement (bush bearing arrangement is not acceptable).
- 6.7 A Local/Remote selector switch and a set of open/ close push buttons shall be provided on the control cabinet of the isolator to permit its operation through local or remote push buttons.
- 6.8 Provision shall be made in the control cabinet to disconnect power supply through suitable MCBs to prevent local/remote power operation.
- 6.9 The motor shall be an AC motor /PMDC type and should run from 400V/230V AC mains. The motor should have smooth torque/speed characteristics.
- 6.10 Suitable reduction gearing shall be provided between the motor and the drive shaft of the isolator. The mechanism shall stop immediately when motor supply is switched off.
- 6.11 Suitable reduction gearing shall be provided between the motor and the drive shaft of the isolator. The mechanism shall stop immediately when motor supply is switched off. Gear should be of forged material suitably chosen to avoid bending/jamming on operation after a prolonged period of non-operation. Also all gear and connected material should be so chosen/surface treated to avoid rusting. The Gears shall be lubricated for life with graphite or better quality non-drawing and non-hardening type grease.
- 6.12 Manual operation facility (with handle) should be provided with necessary interlock to disconnect motor.
- 6.13 Provision shall be made in the control cabinet to disconnect power supply through suitable MCBs to prevent local/remote power operation. All control switches shall be of MCB/rotary switch type and Toggle/piano switches shall not be accepted.
- 6.14 Only stranded copper conductor (PVC, FRLS) shall be used for wiring. Minimum size of the Conductor for control circuit wiring shall be **2.5 sq.mm Copper**.
- 6.15 Suitable anti-condensation heaters with the provision of thermostat shall be provided.
- 6.16 Each operating mechanism shall be provided with 1100V grade stud type terminal block of Polyamide material. At least 20% spare terminals shall be provided.
- 6.17 A light fixture suitable for a 240 V, 9 Watt LED lamp shall be provided in each of the tor operated mechanism & shall be door operated type. A 240V, single phase, 50 Hz, 15 amp AC plug and socket shall be provided in the cabinet with ON-OFF switch for connection of hand lamps.

#### 7. DESIGN, MATERIALS AND WORKMANSHIP

The live parts shall be designed to eliminate sharp points, edges and similar corona producing surfaces. Where this is impracticable, adequate shields to be provided. All ferrous metal parts shall be hot dip galvanized, as per IS 2629.All metal parts shall be of such materials or treated in such a way so as to avoid rust, corrosion and deterioration due to continued exposure to atmosphere and rain. All current carrying parts shall be made from high conductivity electrolytic copper.

Bolts, screws and pins shall be provided with standard locking device viz. Locknuts, spring washers, keys etc. and when used with current carrying parts, they shall be made of copper silicon or other high conductivity and wear resistant alloys.

The switches should not need lubrication of any parts except at very long interval of five year minimum.

#### 8. **PROTECTIVE COATINGS**

All ferrous parts including bolts, nuts and washers of the switches assembly shall be galvanized to withstand at least six one minute dips in copper sulphate solution of requisite strength (Prece tests) except the threaded portions which should withstand four dip

#### 9. INSULATORS –

Support insulators for all type of isolators shall be of solid core type. The insulator shall be made of homogeneous and vitreous porcelain of high mechanical and dielectric strength. It shall have sufficient mechanical strength to sustain electrical and mechanical loading on account of wind load, short circuit forces etc. Glazing of the porcelains shall be of uniform dark brown colour with a smooth surface arranged to shed away rain water. The porcelain shall be free from laminations and other flaws or imperfections that might affect the mechanical or dielectric quality. It shall be thoroughly vitrified, tough and impervious to moisture. The porcelain and metal parts shall be assembled in such a manner and with such material that any thermal differential expansion between the metal and porcelain parts throughout the range of temperature specified in this specification shall not loosen the parts or create under internal stresses which may affect the mechanical or electrical strength or rigidity. The assembly shall not have excessive concentration of electrical stresses in any section or across leakage surfaces. The cement used shall not give rise to chemical reaction with metal fittings. The insulator shall be suitable for water washing by rain or artificial means in service condition. Profile of the insulator shall also conform to IEC-815. Insulator shall have a minimum cantilever strength of 800 kgf (for 400Kv, 220 Kv ) & 600 Kgf for (132KV,33 Kv ). Caps to be provided on top of the insulator shall be of high grade cast iron or malleable steel casting. It shall be machine faced and hot dip galvanized. The cap shall have four numbers of tapped holes spaced on a pitch circle diameter of 127mm. The holes shall be suitable for bolts with threads having anti

corrosive protection. The effective depth of threads shall not be less than the nominal diameter of the bolt. The cap shall be so designed that it shall be free from visible corona and shall have radio interference level within 500 micro volts for 220 Kv & 132 Kv .Casing shall be free from blow holes cracks and such other defects

# If corona extinction voltage is to be achieved with the help of corona ring or any other similar device, the same shall be deemed to be included in the scope of the Supplier.

## 10. Control Cabinet:

The control cabinet of the operating mechanism shall be made out of **Stainless Steel Cubicle** of minimum **1.5 mm** thickness. Hinged door shall be provided with pad locking arrangement. Flexible earthing strips to be provided for moving shaft connecting to the isolator with cabinet body as well as the hinged door with main body. Sloping rain hood shall be provided to cover all sides. 15 mm thick neoprene or better type of gaskets shall be provided to ensure degree of protections of at least **IP 55** as per IS 2147/IS-3947. **The type test reports of the ingress protection from CPRI / ERDA shall be submitted along with the offer**. The cabinet shall be suitable for mounting on support structure with adjustment for vertical, horizontal and longitudinal alignment. Details of these arrangements shall be furnished along with the offer.

### 11. Motor:

Motors rated 1 Kw and above shall be suitable for operation on 3 phase, 415 V, 50 HZ supply. Motors of lower rating shall be single phase type suitable for 240V, 50HZ system. It shall be totally enclosed type if mounted outside the control cabinet. The motor shall **be of continuous duty S1 class** withstand without damage stalled torque for atleast 3 times the time lag of tripping device. The motor shall, in all other respects, conform to the requirement of I.S. 325.

#### 12. Gear :

The dis-connector / isolator may be required to operate occasionally, with considerably long idle intervals. Special care shall be taken for selection of material for gear and lubrication of gears to meet this requirement. The gear shall be made out of aluminium bronze or any other better material lubricated for life with graphite or better quality non-drawing and non-hardening type grease. Wherever necessary automatic relieving mechanism shall be provided suitable relay, Device shall be provided to prevent over loading of the motor. Single phase preventer (for 3 phase meter) shall be provided to operate on open circuiting of any phase and shall trip off the motor. Complete details of the devices shall be furnished in the offer. The gear box shall have a provision of stopper arrangement to prevent over travel of the mechanism. All fasteners used in the gear box shall be made of stain less steel.

#### 13. Space heaters:

Space heaters suitable for 1 phase 240V AC supply shall be provided for each motor operated operating mechanism to prevent condensation and shall be operated by MCB **and thermostat**.

#### 14. Terminal block and Wirings:

Each operating mechanism shall be provided with 1100V grade stud type terminal block. All auxiliary switches, interlocks and other terminals shall be wired up to terminal block. The terminal block shall have at least 20% extra terminals. All wiring shall be carried out with 1.1KV grade insulated 2.5 sq mm copper wires. The mounting channels used for terminal blocks shall be powder coated to the colour of the enclosure.

#### **15. Interior Illumination:**

A holder suitable for a 240 V, **9 Watt LED** lamp shall be provided in each of the motor operated mechanism of three poles & shall be door operated type.

#### **16.** Control and auxiliary supply:

A 3 phase switch with MCB for phases and link for neutral, shall be provided for power supply and a 2 pole MCB shall be provided for control supply.

 Position indicator: A position indicator to show the isolator is in ON or OFF position to be provided.

**18.** Name plate: Isolator, earthing switches and their operating devices shall be provided with name plate. The name plate shall be weather proof and corrosion proof. It shall be mounted in such a position that it shall be visible in the position of normal service and installation. It shall carry the following information duly engraved or punched on it.

Isolator Base Name : OPTCL Name of manufacturer – Order No. – Type Designation – Manufacturers serial No. – (Confirming to IS) Rated voltage – Rated normal current – Rated short time current (rms) and duration – Rated short time peak current (KAP)

Weight A. B. Earthing Switch Name : OPTCL Name of manufacturer – Order No. -Type Designation -Manufacturers serial No. -(Confirming to IS) Rated voltage -Rated normal current -Rated short time current (rms) and duration Rated short time peak current (KAP) Weight B. **Operating Device** Name – OPTCL Name of manufacturer – Order No. Type Designation -Reduction gear ratio -AC motor i) Rated auxiliary voltage ii) Starting current Designation of AC motor as per I.S 4722/325 iii) iv) Starting torque at 80% of supply voltage Over travel in degrees after cutting off supply v) **Total operating time in seconds** i) Close operation – Electrical ii) Open operation – electrical Open operation – manual 19. Painting Galvanizing and Climate Proofing

At interiors and exteriors of enclosures, cabinets and other metal parts (other than made up of aluminum) shall be thoroughly cleaned to remove all rust, scales, corrosion, grease and other adhering foreign matter and the surfaces treated by phosphating (e.g. seven tank phospating sequence). After such preparation of surfaces, two coats of zinc oxide primer shall be given by suitable stoving and air drying before final painting. Colour of the final paints shall be of shade no. 697 of IS:5. The finally painted cubicle shall present aesthetically pleasing appearance free from any dent or uneven surface.

Paint inside the metallic housing shall be of anti-condensation type and the paint on outside surfaces shall be suitable for outdoor installation.

All components shall be given adequate treatment of climate proofing as per IS: 3202 so as to withstand corrosive and severe service conditions.

All metal parts not suitable for painting such as structural steel, pipes, rods ,levers, linkages, nuts and bolts used in other than current path etc. shall be hot dip gaivanised as per IS -2629. Galvanization test will be carried out during routine test.

Complete details of painting, galvanizing and climate proofing of the equipment shall be furnished in the offer.

#### 24.(A) TESTS

#### **Type Tests**

Isolators offered, shall be fully type tested as per the relevant standards. The Bidder shall furnish three sets of the following valid type test reports for their different type of offered Isolators along with the offer. The Purchaser reserves the right to demand repetition of some or all the type tests in the presence of purchaser's representative. For this purpose the Bidder may quote unit rates for carrying out each type test and this will be taken during bid price evaluation, if required.

a) Short time withstand & peak withstand current test for Isolator & Earth Switch.

b) Power frequency (Dry & Wet), Lightening Impulse dry withstand Test

c) Mechanical endurance Test (M2 class).

d) IP-55 test.

- e) Temperature rise.
- f) Seismic withstand test.

g) Induced current test (Class-B)as per IEC 62271-102. (For 220 KV class Isolators).

h) RIV test. (132 KV & above).

During type tests the isolator shall be mounted on its own support structure or equivalent support structure and installed with its own operating mechanism to make the type tests representative. Drawing of equivalent support structure and mounting arrangements shall be furnished for Purchaser's approval before conducting the type tests.

The type tests shall be conducted on the isolator along with approved insulators and terminal connectors.

Mechanical endurance test shall be conducted on the main switch as well as earth switch of one isolator of each type.

#### Acceptance and Routine Test :

All acceptance and routine test as stipulated in the relevant standards shall be carried out by the supplier in presence of Purchaser's representative.

Mechanical operation test (routine test) shall be conducted on isolator (main switch and earth switch) at the supplier's works as well as purchaser's substation site.

Immediately after finalization of the programme of type / acceptance, routine testing the supplier shall give sufficient advance intimation (clear 20 days advance intimation), along with shop routine test certificates, valid calibration reports from Govt. approved test house for the equipment, instruments to be used during testing for scrutiny by the purchaser to enable him to depute his representative for witnessing the tests. If there will be any discrepancies in the shop routine test certificates and calibration reports furnished by the firm then after settlement of the discrepancies only, purchaser's representative will be deputed for witnessing the tests.

Special tests proposed to be conducted (if decided to conduct) as type test on isolators, are given at Annexure- II. These special type test charges shall be quoted along with all other type tests as per relevant IEC standard and these charges shall be included in the total bid price.

Test certificates of various items including but not limited to the following shall be furnished at the time of routine tests.

- a) Chemical analysis of copper along with a copy of excise certificate indicating genuine source of procurement of electrolytic grade copper.
- b) Bearings
- c) Fasteners
- d) Universal / swivel joint coupling
- e) Insulators
- f) Motor
- g) Gears
- h) Auxillary switch
- i) Limit switch
- j) Timer
- k) Overload / single phase preventer relay

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- 1) Interlocking devices
- m) Terminal block
- n) Any other item

### 24-(B) Factory acceptance testing for Isolator Mechanism Box:-

The following factory acceptance tests shall be carried out at the works of manufacturer.

1.70 operations on a test load bench for 150 kg, 50 operations shall be conducted at rated voltage, 10 operations at +10% of rated voltage and 10 operations at -15% of rated voltage. The current readings shall be noted before and after the endurance of 50 operations. The variation in current shall not be greater than 20% after mechanical endurance of 50 operations.

The noise level from the gear box in a open cabinet shall be less than 30 decibels after compensation for ambient noise.

2. Power coating thickness shall be measured on 10% of the offered lot and the minimum average coating thickness shall not be less than 65 microns.

3. The control wiring shall withstand a voltage of 2kV for 1 min. This test shall be carried out on 10% of the offered lot.

The details of the factory acceptance test setup along with the calibration reports shall be submitted for scrutiny to assure the purchaser that the manufacture has all the testing facilities to carry out the acceptance tests to his satisfaction. Any lack of testing equipment shall make the manufacturers offer liable for rejection

### 25. INSPECTION

i) The Purchaser shall have access at all times to the works and all other places of manufacture, where the disconnectors, earth switches and associated equipment are being manufactured and the supplier shall provide all facilities for unrestricted inspection of the works raw materials manufacture of all the accessories and for conducting necessary tests as detailed herein.

ii) The supplier shall keep the purchaser informed in advance of the time of starting of the progress of manufacture of equipment in its various stages so that arrangements could be made for inspection.

iii) No material shall be dispatched from its point of manufacture unless the material has been satisfactorily inspected and tested.

iv)The acceptance of any quantity of the equipment shall in no way relieve the supplier of his responsibility for meeting all the requirements of this specification and shall not prevent subsequent rejection if such equipment are later found to be defective.

## 26 <u>QUALITY ASSURANCE PLAN</u>

The Bidder shall invariably furnish following information along with his offer, failing which his offer shall be liable for rejection.

(i) Names of sub suppliers for raw materials, list of standards according to which the raw materials are tested, list of tests normally carried out on raw materials in presence of Supplier's representative, copies of test certificate

(ii) Information and copies of test certificates as in (I) and (ii) above in respect of bought out accessories.

(iii) List of manufacturing facilities available

(iv) Level of automation achieved and lists of areas where manual processing still exists.

(v) List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspections.

List of testing equipment with calibration certificates from Govt. approved test house available with supplier for final testing equipment and test plant limitation if any, vis-à-vis the type, special acceptance routine test specified in the relevant standards. These limitations shall be very clearly brought out in the specified test requirements.

The supplier shall within 30 days of placement of order, submit following information to the purchaser.

i) List of raw material as well as bought out accessories and the names of sub-suppliers selected from the lists furnished along with offer.

ii) Type test certificates of the raw material and both bought out accessories.

iii) Quality Assurance Plan (QAP) withhold points for purchaser's inspection.

The supplier shall submit the routine test certificates of bought out accessories and raw material viz. Copper, aluminum conductors, lubricating material, gear material etc. at the time of routine testing of the fully assembled isolator.

#### 27. DOCUMENTATION

All drawings shall conform to relevant international standards organisation (ISO). All drawings shall be in ink and suitable for micro filming. All dimensions and data shall be in S.I. Units.

List of Drawings and Documents

The Bidder shall furnish four sets of following drawings /documents along with his offer.

a) General outline and assembly drawings of the dis-connector operating mechanism, structure, insulator and terminal connector.

b) Sectional views and descriptive details of items such as moving blades, contacts, arms contact pressure, contact support bearing housing of bearings, balancing of heights, phase coupling pipes, base plate, operating shaft, guides, swivel joint operating mechanism and its components etc.

c) Loading diagram

d) Drawings with structure for the purpose of type tests.

- e) Name plate.
- f) Schematic drawing.
- g) Type test reports.
- h) Test reports, literature, pamphlets of the bought out items and raw material.

The supplier shall within 2 weeks of placement of order submit four sets of final versions of all the above said drawings for Purchaser's approval. The purchaser shall communicate his comments / approval on the drawings to the supplier. The supplier shall, if necessary, modify the drawings and resubmit four copies of the modified drawings for Purchaser's approval within two weeks from the date of comments. After receipt of approval the supplier shall within three weeks submit 15 prints and two good quality re-producible of the approved drawings for purchaser's use.

Six sets of the type test reports, duly approved by the Purchaser shall be submitted by the supplier for distribution, before commencement of supply Adequate copies of acceptance and routine test certificates, duly approved by the Purchaser shall acompany the dispatched consignment.

The manufacturing of the equipment shall be strictly in accordance with the approved drawings and no deviation shall be permitted without the written approval of the purchaser. All manufacturing and fabrication work in connection with the equipment prior to the approval of the drawing shall be at the supplier risk.

#### 28. <u>INSTRUCTION MANUALS</u> :

Fifteen copies of the erection, operation and maintenance manuals in English be supplied for each type of disconnector one month prior to dispatch of the equipment. The manual shall be bound volumes and shall contain all drawings and information required for erection, operation and maintenance of the disconnector including but not limited to the following particulars.

- (a) Marked erection prints identifying the component parts of the disconnector as shipped with assembly drawings.
- (b) Detailed dimensions and description of all auxiliaries.
- (c) Detailed views of the insulator stacks, metallic, operating mechanism, structure, interlocks, spare parts etc.

## 29. <u>PACKING AND FORWARDING</u>.

The equipment shall be packed in crates suitable for vertical / horizontal transport, as the case may be and suitable to withstand handling during transport and outdoor storage during transit. The supplier shall be responsible for any damage to the equipment during transit, due to improper and inadequate packing. The easily damageable material shall be carefully packed and marked with the appropriate caution symbols. Wherever necessary, proper arrangement for lifting, such as lifting hooks etc. shall be provided. Any material found short inside the packing cases shall be supplied by supplier without any extra cost.

Each consignment shall be accompanied by a detailed packing list containing the following information:

- (a) Name of the consignee.
- (b) Details of consignment.
- (c) Destination.
- (d) Total weight of consignment.
- (e) Handling and unpacking instructions.
- (f) Bill of material indicating contents of each package.

The supplier shall ensure that the bill of material is approved by the purchaser before dispatch.

#### 30. <u>SUPERVISION OF ERECTION TESTING AND COMMISSIONING</u> (ET & C)

Purchaser proposes to utilize the services of the supplier for supervision of testing and commissioning of the equipment being supplied by him, if it is required. For this purpose, the supplier should make available the services of trained personnel (Engineers) who shall correct in the field, any errors or omissions in order to make the equipment and material properly perform in accordance with the intent of this specification. The Engineer shall also instruct the plant operators in the operation and maintenance of the commissioned equipment. The supplier shall be responsible for any damage to the equipment on commissioning the same, if such damage results for the faulty or improper ET&C. Purchaser shall provide adequate number of skilled / semiskilled workers as well as ordinary tools and equipment and cranes required for equipment erection, at his own expenses. Apart from the above, the Purchaser shall not be responsible for providing any other facilities to the supplier. Special tools if required for erection and commissioning shall be arranged by the supplier at his cost and on commissioning these shall be supplied to the purchaser free of cost for future use.

#### APPENDIX – I (Isolators)

Sl. No.	Name of the Test	Standard to which it conforms.
1.	Test for visible Corona and Radio	NEMA Pub No. 107-1964 ISRI Pub
	interference voltage (RIV) on disconnectors and terminal connector.	No. 1-1972
2.	Tests on insulators	IS-2544 IEC. 168
3.	Tests on terminal connectors	IS:5561
4.	Tests on galvanized components	IS:2633
5.	Stalled torque test on motor operating mechanism	At 110% of supply voltage

#### LIST OF SPECIAL TESTS TO BE CARRIED OUT IF DECIDED BY THE PURCHASER

# **Quantity & Delivery Schedule**

# APPENDIX-II

Lot.	SI. No.	ITEM DESCRIPTION	2022-23	Destination	Delivery in months
I	i	132 KV Double Isolator with E/S, 2000A.	22	Any store/site of OPTCL within the state of ODISHA as per dispatch clearance	Within <b>4 (Four)</b> Months from the date of the issue of the Purchase Order.
	ii	132 KV Double Isolator W/O E/S,2000A	8		
п	i	33 KV Double Isolator With E/S,2000A	32		
	ii	33KV SI W/O E/S,2000A	81		
ш	i	Male and female contact assembly per pole of Isolator for 420 KV <b>S&amp;S</b> Make Earth switch as per drawing.	18		
	ii	Male and female contact assembly per pole of Isolator for 420 KV 2000 A, HCB (Al) Isolator S&S Make as per drawing.	18		
	iii	Male and female contact assembly in set for one Isolator (Three Poles) for 420 KV Isolator <b>GR Power Switchgear</b> Make for dia. 408 for Meramunduli GSS as per drawing.	4 Sets.		
IV	i	Motor operating mechanism box for 33 KV Isolator with <b>Stainless Steel Cubicle</b> , 10 NO + 10 NC auxiliary contact with three phase AC motor with retrofitting as per OPTCL specification.	209		
	ii	Motor operating mechanism box for 132 KV Isolator with <b>Stainless Steel</b> <b>Cubicle</b> ,10 NO + 10 NC auxiliary contact with three phase AC motor with retrofitting as per OPTCL specification.	304		
	iii	Motor operating mechanism box for 220 KV Isolator with <b>Stainless Steel Cubicle</b> , 10 NO + 10 NC auxiliary contact with three phase AC motor with retrofitting as per OPTCL specification.	227		

**N.B:** The detail delivery programme & quantity to be delivered will be informed at the time of placing P.O / issue of release order.