

ODISHA POWER TRANSMISSION CORPORATION LIMITED

OFFICE OF THE SR. GENERAL MANAGER CENTRAL PROCUREMENT CELL JANAPATH, BHUBANESWAR-751022 TEL NO. 0674-2541801 FAX NO. 0674-2542964

TENDER SPECIFICATION NO. SR.GM-CPC-TENDER- CONDUCTOR-19/2018-19

Lot	Conductor	Unit	Requirement 2018-19	Requirement 2019-20	Total requirement	EMD @1%
i	ACSR Panther	km	321.0	30.0	351.0	4,88,790.00
ii	ACSR Zebra	km	357.0	0	357	8,89,000.00

TOWARDS PROCUREMENT OF CONDUCTOR

Request for online tender documents:From dt-25.09.2018 (10.00 Hrs) to dt-
26.10.2018(12.00 Hrs)Last date of submission of Online tender:Up to 13.00 Hrs of dt-26.10.2018Date of opening of Tender:26.10.2018 at 15.00 Hrs

NOTICE INVITING TENDER

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

ODISHA, INDIA.

e-TENDER NOTICE NO- CPC-19/2018-19.

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

Lot	Conductor	Unit	QTY.	EMD @1% of Estd. Cost.	Last date of submission	Date of opening of Tender
i	ACSR Panther	km	351.0	4,88,790.00	Up to 13.00 Hrs of Dt. 26.10.2018	On Dt.26.10.2018 at 15.00 Hrs.
ii	ACSR Zebra	km	357.0	8,89,000.00	201012010	

The bidders can view the tender documents from website free of cost. The interested bidders would be required to enrol themselves on the tender portal <u>www.tenderwizard.com/OPTCL</u>. Complete set of bidding documents are available at <u>www.tenderwizard.com/OPTCL</u> from Dt.25.09.2018 (10.00 Hrs) to Dt.26.10.2018 (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.

N.B:-All subsequent addendums / corrigendums to the tender shall be hosted in the OPTCL's official web site <u>http://www.optcl.co.in</u> and <u>www.tenderwizard.com/OPTCL only</u>.

CHIEF GENERAL MANAGER [C.P.C.]

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

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Lo t	Conducto r	Uni t	QTY.	EMD @1% of Estd. Cost.	Cost of Tender Spec. docume nt (in Rs.)	of	Last date of submission	Date of opening of Tender
i	ACSR Panther	km	351. 0	4,88,790.0 0	<mark>10,000</mark> / -	/	Up to 13.00 Hrs of Dt. 26.10.2018	On Dt.26.10.2018 at 15.00 Hrs.
ii	ACSR Zebra	km	357. 0	8,89,000.0 0	+ <mark>1200/-</mark>			
					(GST)			

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

TENDER COST:

The bidders who want to submit bids shall have to pay non-refundable amount Rs. 11,200/- (Rupees Eleven thousand two hundred) only including GST @ 12%) towards the tender cost, in the form of Demand draft/Pay order/Cash only, drawn in favour of the D.D.O Head Qrs, OPTCL, Bhubaneswar. They have to also submit notarized hard copy of GST registration certificate on or before the date & time of submission of techno-commercial bid.

TENDER PROCESSING FEE:

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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 TENDE 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 technocommercial bid.

The demand draft/pay order for tender cost , processing fees are to be submitted along with the EMD at the office of the undersigned on or before the last date & time of submission of tender.

The bidders shall scan the Demand Draft/Pay order/ Bank guarantee, towards EMD/ notarised hard copy of valid registration as local MSE **(In the state of Odisha)** (if any) and upload the same in the prescribed form in .gif or .jpg format in addition to sending the original as stated above.

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.

CHIEF GENERAL MANAGER, CPC

CENTRAL PROCUREMENT CELL

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<u>PART – II</u>

1) Price Bid

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COMMERCIAL SPECIFICATION. PART-I 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.

- I. For all the users it is mandatory to procure the Digital Signatures.
- II. Contractors / Vendors / Bidders / Suppliers are requested to follow the below steps for Registration:
 - a. Click õRegisterö, fill the online registration form.
 - b. Pay the amount of Rs. 2360/- through DD 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.
- III. 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.
- IV. 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 õGoö.
 - f. Click on õClick here to loginö for selecting the Digital Signature Certificate.

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- g. Select the Certificate and enter DSC Password.
- h. Re-enter the e-Procurement User Id Password
- V. To make a request for Tender Document Bidders will have to follow below mentioned steps.
 - Click õUn Appliedö to view / apply for new tenders.
 - Click on Request icon for online request.
- VI. 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 õClick here to downloadö to download the documents.
- VII. 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
- VIII. Tender Opening event can be viewed online.
- IX. Competitors bid sheets are available in the website for all.
- X. For any e-tendering assistant contact help desk number mentioned below.Bangalore ó 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 Chief 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. Bidder's Liberty to deviate from Specification.

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. <u>Purchaser's right to accept/reject bids:</u>

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.

NOTE:

- (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.

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(viii) Tenders not accompanied by Earnest Money shall be disqualified.

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] The quoted price shall be variable as per IEEMA PVC. The IEEMA variation formula in force at the time of bidding will remain the same throughout the execution and completion of the order unless revised by IEEMA. For the purpose of Price Variation, 95% of Taxable Value shall be considered as "Base Price" on which IEEMA Price Variation formula shall be applicable.
- [ii] Irrespective of the increase in prices of raw materials, the price variation(increase) will be limited to a maximum of 30% over 95% of Taxable Value. There is no ceiling limit on lower side i.e. negative price variation.
- [ii] If the date of delivery is beyond the contractual delivery date, then the scheduled delivery date or the date of offer for inspection or the actual delivery date whichever is advantageous to the Purchaser will form the basis for the calculation of price variation.

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 CHIEF 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:

Part-I of the Tender shall Contain the following documents.

- [i] Declaration Form. [As per Annexure-I]
- [ii] Earnest Money. [As per Annexure-VIII]

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- [iii] Technical specification and Guaranteed Technical Particulars conforming to the Purchaser Specification along with drawings, literatures and all other required Annexures, duly filled in.
- [iv] Photostat copies of type test certificates of materials/equipments 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/equipments during preceding 2 (two) years indicating the customerc 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] Sales tax clearance certificate for the previous year and 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.

17. <u>Documents/Papers to accompany Part-II Bid.</u>

- (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.
- (vii) 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 OPTCLøs 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 Page 14 of 65

availability of the return travel ticket. In case of extended duration of inspection or nonavailability 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 bidderøs 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.
- 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.

PART-I

SECTION-II

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

1. <u>Scope of the contract:</u>

The scope of the contract shall be to design, manufacture, supply of equipment as per the specification at the consigneeß 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 õThe Purchaserö shall mean the Chief General Manager[Central Procurement Cell] for and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD., Bhubaneswar.
- 2.2 õThe Engineerö shall mean the Engineer appointed by the Purchaser for the purpose of this contract.
- 2.3 õPurchaserøs Representativeö 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 õThe supplierö shall mean the bidder whose bid has been accepted by the purchaser and shall include the bidderøs executives, administrators, successors and permitted assignees.
- 2.5 õEquipmentö shall mean and include all machinery, apparatus, materials, and articles to be provided under the contract by the suppliers.
- 2.6 õContract Priceö shall mean the sum named in or calculated the bid.
- 2.7 õGeneral Conditionö shall mean these General Terms and Conditions of Contract.
- 2.8 The Specificationö 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 õMonthö shall mean õCalendar monthö.
- 2.10 Writingö 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 destinationö shall mean the price quoted by the bidder for equipment and material at the consigneeøs 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 õFOR Destination Priceö as quoted by the bidder.
- 2.12 The term õContract documentö 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 Purchaserøs representative.

4. **Inspection and Testing**:

- [i] The purchaserøs representative shall be entitled at all reasonable times during manufacture to inspect, examine and test at the supplierøs 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 purchaserøs representative permission to inspect, examine and test as if the equipment/material were being manufactured in the contractorøs 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

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be required or as may be reasonably demanded by the Purchaserøs 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 Purchaserøs 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 Purchaserøs 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 such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification shall either rectify or replace the defective equipment/material free of such notification by 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/

CompositeBankguarantee.

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[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 Organisations 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 manufacturerø 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 users certificate. Userøs certificate shall be legible and must indicate, userøs 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 un-satisfactory or is of less than 2 (two) years on the date of opening of the bid and bids not accompanying userøs certificate will be rejected..

8. Language and measures:

All documents pertaining to the contract including specifications, schedule, notices, 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 õDeviations Commercialö and õ Deviations Technicalö.

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

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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 supplierøs risk by Road Transport only.

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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 judgement 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 price reduction 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

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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 OPTCLøS stores/site in full & good condition which are released for Despatch by the purchaser after due inspection.

19. <u>B.G. towards security deposit, 100% payment and performance guarantee</u>:

[i] For manufacturers situated Inside & out side the state of Odisha.

A Composite Bank Guarantee as per the Proforma enclosed at Annexure-VII of the specification for 10% [ten 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 5% (five percent) shall be furnished from any nationalized/scheduled bank having a place of business at Bhubaneswar, to the office of Chief 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 guarantee period, for scrutiny and acceptance, failing which the supply order will be liable for cancellation without any further written notices. In case of upward revision of price due to price variation, the BG for 10% or 5% (as applicable) of differential amount shall be submitted within 15 days of approval of Price Variation. 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-fulfilment 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 10% (Ten 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, **5% (five percent) in place of 10%** (ten percent) will be applicable].

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

ii) TDS under GST Laws for intra state transactions shall be deducted, if 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 Price Reduction Schedule for Delay in Completion of Supply under Purchase 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 un-delivered

equipment /materials for each calendar week of delay or part thereof. For this purpose, the date of Page $\mathbf{24}$ of $\mathbf{65}$

receipted challan shall be reckoned as the date of delivery. The total amount of Price Reduction Schedule shall not exceed five per cent (5%) of the Taxable Value of the un-delivered equipment/materials. Equipment will be deemed to have been delivered 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 daysfrom 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 30th 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>Sales Tax clearance certificate</u>, <u>Rating under Goods and Services Tax and Balance sheet</u> and profit & Loss Account:

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. <u>EVALUATION.</u>

(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.

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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.

(II) Weightage shall be given to the Following factors in the Evaluation & Comparison of <u>Bids.</u>

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. Minimum Qualification Criteria of Bidders: -

All the prospective bidders are requested to note that their bids for tendered equipment/material can only be considered for evaluation if :-

- i. The bidder should have manufacture and supply experience of the above rated or higher capacity equipments/materials for a minimum period of 02(Two) years as on the date of opening of the Tender.
- ii. At least 50 % of the tendered quantity of the above rated or higher capacity equipments/materials should have been supplied within the above stipulated period.
- iii. The above rated or higher capacity equipments/materials should have at least 02(Two) years successful performance from the date of commissioning. At least one of the performance certificates shall be submitted from Govt. of India/ state Govt.(s) or their undertakings.
- iv. The bidder should have conducted type tests on the tendered equipments in Govt. approved laboratory within the 05(Five) years from the date of opening of tender.

31. Jurisdiction of the High Court of Odisha.

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 Odisha extends.

32. Correspondences.

- 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.

33. Official Address of the Parties to the Contract

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

[i] **Purchaser**: CHIEF General Manager (CPC), OPTCL,

Bhubaneswar-751022 (Odisha)

Telephone No. 0674 - 2541801

FAX No. 0674 - 2542964

[ii] <u>Supplier</u>: AddressTelephone No.Fax No.

34. Outright Rejection of Tenders.

Tenders shall be out rightly 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 last date and time of submission of bid. Earnest Money Deposit should be valid for a period of 240 days from the date of tender opening, if furnished in shape of EMD BG.
- v. The tender shall be kept valid for a minimum period of 180(One Hundred Eighty) 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 02(Two) years shall be furnished(Scanned copies to be uploaded).
- 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

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this tender in a Government approved laboratory/CPRI in presence of any Government Organisation's representative(s).

- ix. The schedule of price 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; vide Clause No. 4 (ii) of Part-II.
- x. The Tenderer should quote "VARIABLE PRICE" only and the price should be kept valid for a minimum period of 180(One Hundred Eighty) days from the date of opening of the Tender.
- xi. The tenderer shall upload the scanned copy of legibly written user's certificate to prove the satisfactory operation of the offered equipments/materials for a minimum period of 02 (Two) years from the date of commissioning 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 and 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.

35. **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.

36. CONTACTING THE PURCHASER: -

 (a) Subject to Clause No.4 (opening of bids) of part-I, Section-I (Instruction to Tenderer),

no bidder shall contact the purchaser on any manner, relating to its bid, from the

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time of bid opening to the time, the contract is awarded.

(b) Any effort by a Bidder to influence the purchaser in the purchaser's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid.

37. Scheme/Projects

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

PART-I 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.

1	Declaration form	ANNEXURE-I
2.	Abstract of General Terms & Conditions of contract.	ANNEXURE-II
3.	Schedule of Quantity and Delivery.	ANNEXURE-III
4.	Abstract of price component	ANNEXURE-IV
5.	Schedule of prices to accompany Part-II	ANNEXURE-V
6.	Bank Guarantee form for Earnest Money Deposit.	ANNEXURE-VI
7.	Composite Bank Guarantee form for security deposit,	ANNEXURE-VII
	payment and performance.	
8.	Chart showing particulars of E.M.D.	ANNEXURE-VIII
9.	Data on Experience.	ANNEXURE-IX
10.	Schedule of Spare parts	ANNEXURE-X
11.	Schedule of Installations	ANNEXURE-XI
12.	Schedule of Deviation.	ANNEXURE-XII

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

То	
	The Sr. General Manager (CPC)
	OPTCL Head Qrs.BBSR,751022
Sub:-	Tender Specification No
Sir,	
1.	Having examined the above specification together with terms & conditions referred to
	therein $*$ I/We the undersigned hereby offer to supply the materials/equipments
	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/equipments delivered within the time
	specified in the Tender.
3.	\ast I/We hereby guarantee the technical particulars given in the Tender supported with
	necessary reports from concerned authorities.
4.	\ast I/We certify to have submitted the bid electronically by remitting $\ast cash/money$
	order/D.D./ remitting the cost of tender, herewith and this has been acknowledged by
	your letter/ money receipt NoDated,
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.
	Signed this day of 2014
	Yours faithfully

Signature of the Tenderer with seal of the company

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

* (Strikeout whichever is not applicable).

N.B:- The annexure is to be filled up & uploaded as PDF

ANNEXURE-II

ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT [COMMERCIAL]

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

ANNEXURE-III

SCHEDULE OF QUANTITY AND DELIVERY

(To be filled up by the tenderer)

SL	Description of materials	Quantity	Desired	Destination	Remarks.
No		required	Delivery		
1	2	3	4	5	6

Signature of Tenderer

with seal of Company

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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.

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.

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ANNEXURE-VI

PROFORMA FOR BANK GUARANTEE FORM FOR EARNEST MONEY DEPOSIT

Ref	Date	Bank Guarantee No:
1	In accordance with invitation to Bid NoDated TRANSMISSION CORPORATION LTD [OPTCL] [herein after for the purchase of	referred to as the OPTCL
	MessersAddress	
	to participate in the said tender and as a Bank Gu Rs[Rupees	arantee for the sum of
	Valid for a period of 240 [Two hundred Forty] days is requir Tenderer. We the	-
	[Indicate the Name	of the Bank]
	[Hereinafter referred to as 'the Bank'] at the request of M/S	
	[Herein after referred to as supplier (s)] do hereby unequive	ocally and unconditionally
	guarantee and undertake to pay during the above said per- the CHIEF General Manager [Procurement] ODISHA CORPORATION LIMITED	POWER TRANSMISSION
	[Indicate designation	n of the purchaser]
	an amount not exceeding Rsto th reservation. The guarantee would remain valid up to	
	[date] and if any further extension to this is required, the receiving instructions from thebehalf this guarantee has been issued.	same will be extended on
2.	We thedo hereby, furth	ner undertake to
	[Indicate the name of the bank] pay the amounts due and payable under this guarantee w on a demand from the OPTCL stating that the amount clair or damage caused to or would be caused to or suffered by any breach by the said supplier [s] of any of the terms of perform the said Bid. Any such demand	ithout any demur, merely med is due by way of loss y the OPTCL by reason of

made on the Bank shall be conclusive as regards the amount due and payable by the Page $36 \mbox{ of } 65$

Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs._____

- 3. We, the ______ Bank undertake to pay the OPTCL any money so demanded not withstanding any dispute or disputes so raised by the contractor [s] 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 there under and the supplier(s) shall have no claim against us for making such payment.
- 4. We, the

_____ further agree that the

[Indicate the name of the bank]

guarantee herein Contained shall remain in full force and effect during the aforesaid period of 240 [Two hundred forty] days and it shall continue to be so enforceable till all the dues of the OPTCL under or by virtue of the said Bid have been fully paid and its claims satisfied or discharged or till Managing Director, ODISHA POWER TRANSMISSION CORPORATION LIMITED certifies that the terms and conditions of the said Bid have been fully and properly carried out by the said Supplier [s] and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the ______

we shall be discharged from all liability under this guarantee thereafter.

5. We, the ______further agree with the OPTCL that the

[Indicate the name of the bank]

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 Supplier [s] from time to time or to postpone for any time or from time to time any of the powers exercisable by the OPTCL against the said supplier [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 Supplier [s] or for any forbearance act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Supplier[s] or by any such matter or thing, whatsoever which under the law relating to sureties would, but for this provision, have 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 or the supplier [s].
- 7. We, _____lastly undertake not revoke this Guarantee

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[Indicate the name of the bank] during its currency except with the previous consent of the OPTCL in writing. 8. We, the_____ Bank further agree that this guarantee shall also be invokable at _____branch at Bhubaneswar in the State of Odisha. Dated _____ Day of _____ Notwithstanding contained herein above, Our liability under this Bank Guarantee shall not exceed Rs. _____(Rupees i) ____). ii) This bank Guarantee shall be valid upto _____. iii) We are liable to pay the guarantee amount or any part thereof under this bank Guarantee only, if you serve upon us at Bhubaneswar in the state of Odisha, a written claim or demand on or before _____. Witness ((Signature, names & address) 1. 2 For_____ [Indicate the name of Bank]

N.B. : 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

ANNEXURE-VII

PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT, PAYMENT AND PERFORMANCE

 This Guarantee Bond is executed this_____day of____2014 by us

 the______Bank
 at

 _____P.O.___P.S.___District____State____

WHEREAS the ODISHA POWER TRANSMISSION CORPORATION LIMITED, a body corporate, constituted under the Electricity Act 2003 [hereinafter called "the OPTCL" which shall include its successors and assigns has placed orders No.
 _____Date _____[hereinafter called "The Agreement"] on M/s._____ [herein after called "The Supplier"] which shall include its successors and assigns for supply of materials.

AND WHERE AS the supplier has agreed to supply materials to the OPTCL in terms of the said agreement AND

WHEREAS the OPTCL has agreed [1] to exempt the supplier from making payment of Security [2] to release 100% payment of the cost of materials as per the said agreement and [3] to exempt from performance guarantee on furnishing by the Supplier to the OPTCL, a Composite bank Guarantee of the value of *10 % [ten percent] of the FORD price

*Strike out, whichever is not applicable.

2. We the (______Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from the OPTCL stating that the amount claimed is due by way of loss or damage caused to or suffered by the OPTCL by reason of any breach by the said

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3. We the ________ (Bank) also undertake to pay to the OPTCL any money so demanded not withstanding any dispute or disputes raised by the supplier [s] 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 there under and the Supplier [s] shall have no claim against us for making such payment.

We, (______Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be so enforceable till all the dues of the OPTCL under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Managing Director, ODISHA POWER TRANSMISSION CORPORATION LIMITED certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said Supplier [s] and accordingly discharges this Guarantee.

Unless a demand or claim under this guarantee is made on us in writing on or before the [Date_____], we shall be discharged from all liability under this guarantee thereafter.

- 5. We,(______Bank) further agree that the 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 agreement or to extend time of performance by the said Supplier [s] and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said supplier [s] or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Supplier [s] or by any such matter or thing whatsoever which under the law relating to sureties would, but for these provisions, have effect of so relieving us.
- 6. This guarantee will not be discharged due to the change in the name, style and Page 40 of 65

constitution of the Bank and supplier [s].

- 7. We,[_____Bank] lastly undertake not to revoke this guarantee during its currency except with the previous consent of the OPTCL in writing.
- 8. We, the______ Bank further agree that this guarantee shall also be invokable at branch at Bhubaneswar in the State of Odisha.

Dated _____ Day of _____

Notwithstanding contained herein above,

- i) Our liability under this Bank Guarantee shall not exceed Rs. ____(Rupees ____).
- ii) This bank Guarantee shall be valid upto _____.
- We are liable to pay the guarantee amount or any part thereof under this bank Guarantee only, if you serve upon us at Bhubaneswar in the state of Odisha, a written claim or demand on or before _____.

For _____

[Indicate the name of the bank]

Witness (Name, Signature & Address) 1.

2.

N.B. : 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

ANNEXURE- VIII

CHART SHOWING PARTICULARS OF EARNEST MONEY DEPOSIT FURNISHABLE BY TENDERERS

1.	Central and State Government Undertakings	Exempted
2.	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.

N.B:- The annexure is to be filled up & uploaded as PDF

ANNEXURE-IX

DATA ON EXPERIENCE

S1.	PARTICULARS	
No		
[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(s) of the Organisations to whom supplies were	
	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 & present status	
[g]	A list of purchase orders, executed during last three	
	years	
[h]	A list of similar equipments of specified KVA rating,	
	voltage class, Impulse level, short circuit rating,	
	designed, manufactured, tested & commissioned which	
	are in successful operation for at least two years from	
	the date of commissioning with legible users certificate.	
	Users 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

N.B:- The annexure is to be filled up & uploaded as PDF $\operatorname{Page} 43 \ \mathrm{of} \ 65$

ANNEXURE-X

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

SL.	Particulars	Quantity	Unit delivery rate	Total price
No				

Place:

Date:

Signature of Tenderer Name, Designation, Seal

N.B:- The annexure is to be filled up & uploaded as PDF

ANNEXURE-XI

SCHEDULE OF INSTALLATIONS

Rated MVA	Rated Voltage	Place of Installation & complete postal	
		address	

Place:

Date:

Signature of Tenderer Name, Designation, Seal

N.B:- The annexure is to be filled up & uploaded as PDF

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ANNEXURE-XII

DEVIATION SCHEDULE.

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

A) Technical

(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)

ANNEXURE – XIII

LITIGATION HISTORY

Year.	Award	for	or	Name	of	client,	Disputed	amo	unt
	against b	idder		cause	of lit	tigation	(current	value	in
				and	matte	er in	Rs.)		
				dispute	e				

Place: -

Date

Signature of Tenderer: Name, Designation, Seal

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SECTION -IV

TECHNICAL SPECIFICATION OF ACSR PANTHER' 'ZEBRA'

1. SCOPE :-

This specification provides for the manufacture, testing, supply and delivery at destination of the steel cored aluminium conductors as per Appendix –I attached.

2. STANDARDS :-

- 2.1. The conductors shall comply in all respects to the clauses of this specification as indicated below & with the Indian Standard Specification, international standards with latest amendments. Some of the standards are:-
 - i) IS 398 Specification for Aluminium Conductor for overhead transmission purposes.

IS 398, Part-II-Aluminium conductors for overhead Transmission purpose – Specification.

- ii) IS 1521, 1972 Method of tensile testing of steel.
- iii) IS 1778-1989- Reel & drums for bare conductors.

3. MATERIALS :-

- 3.1The material offered shall be of best quality and workmanship. The steel Cored Aluminium conductor strands will consist of hard-drawn aluminium wire manufactured from 99.5% pure electrolytic aluminium rods of E.C. Grade. The steel wire shall be made from materials produced either by the acid or basic open hearth process or by electric process. No steel wire drawn from pressmen process shall be used. The steel wire shall not contain sulphur or phosphorus exceeding 0.035 percent, and the total of sulphur and phosphorus shall not exceed 0.085 percent.
- 3.2The steel wires shall be evenly and uniformly coated with Zinc complying with Indian Standards 4826-1979 specification for galvanized coating on round steel wires. The uniformity of Zinc coating and the weight of coating shall be in accordance with Appendix – II. The coating on the galvanized steel wires may be applied by the hot process or the electrolytic process.
- 4. <u>SIZE :-</u>

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The size of steel-cored Aluminium Conductors shall be as given in Appendix-I. The resistance and weights shall be in accordance with the values given in the same appendix.

5. TOLERANCES :-

- 5.1 The following tolerances shall be permitted on standard diameter of aluminium wires. Tolerance on standard diameter of aluminium wire ±1 percent wires.
 - Note :- The cross-section of any wire shall not depart from circularity by more than an amount corresponding to a tolerance of 2 percent on the standard diameter.
- 5.2 A tolerance of + 2 percent shall be permitted on the standard diameter of the galvanized steel wires. The variation from the approximate weights shall not be more than plus or minus 5 percent.

6. <u>MECHANICAL PROPERTIES :-</u>

The value of the final modules of elasticity for steel cored aluminium conductor in the average of values obtained from actual stress strain tests. The co-efficient of linear expansion for steel Cored Aluminium Conductors has been calculated on the basis of co-efficient of linear expansion of 23.0 x 10-6 per degree centigrade of aluminium and 11.5 x 10-6 per degree centigrade for steel and represents only the average values. These values shall however, be given by the bidder under the guaranteed technical particulars.

7. SURFACE CONDITIONS :-

The wires shall be smooth and free from inequalities, spills and splits. The surface conductor shall be free from points, sharp-edges, abrasions or other departures from smoothness or uniformity of surface contour that would increase radio interference and corona losses. When subjected to tension up to 50% of the ultimate strength of the conductor, the surface shall not depart from its cylindrical form nor any part of the component, parts or stands, move relative to each other in such a way as to get out of place and disturb the longitudinal smoothness of the conductor.

8. JOINTS IN WIRES :

8.1 Aluminium wires : No joints shall be permitted in the aluminium wires in the outermost layer of the ACSR conductor. Joints in the inner layers are permitted, in addition to those made in the base rod or wire before final drawing, but no two such joints shall be less than 15 meter apart in the complete stranded conductor. Such joints shall be made by cold pressure butt-welding.

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Joints are not permitted in the outermost layer of the conductor in order to ensure a smooth conductor finish and reduce radio interference levels and corona losses on the extra high voltage lines.

8.2 **Galvanized steel wire**: - There shall be no joints except those in the base rod or wire before final drawing, in steel wires forming the core of the steel-reinforced aluminium conductor.

Joints have not been permitted in the steel wires after drawing in order to avoid reduction in the breaking strength of the conductor that may occur as a result of failure of the joints.

9. STRANDING :-

- 9.1 The wires used in construction of a stranded conductor shall before stranding, satisfy all requirements of <u>IS-398 / (part-II) 1976</u> with latest amendments. For steelcored aluminium conductors the lay ratio of the different layers shall be within the limits given under <u>Appendix – I).</u>
- 9.2 For all, constructions, each alternate layer shall be stranded in opposite directions. The wires in each layer shall be evenly and closely stranded round the under laying wire or wires. The final layer of wires shall have a right hand lay.

10. PACKING AND MARKING :-

- 10.1 The conductor shall be wound in non-returnable reels or drums conforming to Indian Standard 1978-1961 specification for Reels and Drums for Bare Wire, or any other authoritative standard and marked with the following :
 - a) Trade name, if any
- b) Contract / Award letter Number

Name & Address of Consignee

- c) Name of Manufacturer
- e) Drum Number f)
 - Size of Conductor h) G
 - h) Gross Weight of drum with conductor

Length of conductor

i) Weight of empty drum j) Net and gross weight of conductor with lagging

d)

- k) Arrow marking of un-winding
- 10.2 The reel shall be of such construction as to assure delivery of conductor in the field from displacement and damage and should be able to withstand all stresses due to handling and the stringing operations so that conductor surface in not dented, scratched or damaged in any way during manufacture, transport and erection. The conductor shall be properly lagged on the drums and the method of lagging to be employed should be clearly stated. It should be stocked to suit the reel and held in place by steel strapping. Lagging shall not be nailed or bolted in place.

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g)

10.3 The conductor drum should be suitable for wheel mounting. Before reeling, the cardboard or other suitable material shall be secured to the drum and inside flanges of the drums. After reeling the conductor, the exposed surfaces should be wrapped with suitable soft material to prevent the conductor from dirt and grit. Any space between the drum lagging and conductor should be suitably filled with soft filler material compactly packed. The conductor drum shall be made as per the relevant IS.

11. **LENGTHS** :-

11.1 The conductor shall be supplied in the standard lengths as below with a permitted variation of 5%. Not less than 90% of the total quantity of the conductor shall be supplied in the standard lengths. Thus the quantity of the conductor in lengths shorter than standard ones shall not exceed 10% of the total quantity to be supplied. Further no single conductor lengths in respect of such 10% (maximum supply) in random lengths, shall be shorter than 50% of the standard lengths.

Type of Conductor	Length per drum
ZEBRA ACSR	1.1 K.M
PANTHER ACSR	2.2 K.M

12. <u>TESTS AND TEST CERTIFICATES :-</u>

The following type tests (& any other tests if purchaser decides to do), shall be conducted on the conductor at any Govt. approved laboratory or CPRI, in presence of the representatives of OPTCL, on the samples collected and sealed by the representative of OPTCL from the manufactured & offered drums of conductor at random at free of cost to OPTCL or firm may quote their test charges which will be taken in to account during bid price evaluation. If test charges will not be quoted by the firm, it will be treated as nil during bid price evaluation & firm have to do the type tests at free of cost to OPTCL. Also the tenderer shall furnish valid type test reports, the tests are as per the IS 398 (Part-2) conducted in any govt. approved laboratory or CPRI within last 5 years, from the date of opening of the bid (Techno-commercial) document, without which their bids will not be considered for evaluation.

- 12.1 Individual wire and finished steel cored Aluminium Conductor shall be subjected to before dispatch from the works, to the tests as per the provision of the Indian standard Specification 398 (Part-II-1976) with the latest amendments & as per the tests indicated in this specification below.
- 12.2 Samples for individual wires for test shall be taken before stranding form not less than 10 percent of the spiels in the case of aluminium wire and ten percent of the

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wire coils in the case of steel wires. If samples are taken after stranding, they shall be obtained by cutting 5 meters from the outer end of the finished conductor from not more than 10 percent of the finished reels.

- 12.3 The mechanical tests shall be carried out on single wires only.
- 12.4 The tensile test shall apply to wire of all diameters forming part of steel cored aluminium conductors. If it is not possible to test the component wires before stranding the test may be made on wire taken from stranded conductors. The tensile strength of any of the wires shall not be less than the minimum values given in Appendix-II.
- 12.5 A suitable tensile testing machine shall be used, the accuracy of which can easily be checked and the machine adjusted if necessary. The test sample before being placed in the machine, shall straightened, if necessary in such a way as to cause the minimum alteration in its physical properties.

The load shall be applied gradually and rate of separation of the jaws of the testing machine shall not be greater than 10cm/min and less than 2.5cm/min.

A) <u>TYPE TESTS</u>

12.6 Wrapping Test :-

- 12.6.1 Samples of aluminium wires shall be wrapped round a wire of its own diameter to form a close helix of eight turns. Six turns shall then be unwrapped and again clearly wrapped in the same direction as before. The wire shall not break.
- 12.6.2 Samples of steel wires shall be closely wrapped eight times round a mandrel of diameter equal to four times the wire diameter. Six turns shall then be unwrapped and again closely wrapped in the same direction as before. The wire shall not break.

12.7 <u>Galvanizing Test :-</u>

- 12.7.1 The uniformity of zinc coating and the weight of coating shall be as given in <u>Appendix-II</u> and shall be determined according to Indian Standard Specification <u>4826-1979</u> with latest amendments.
- 12.7.2 This test shall be made whenever practicable, on wires before stranding and before the specimen has been bent, straightened or tested in any other way.

12.8 Ductility Test :-

This test shall be made on galvanized steel wires only by any of the proceedings given in 12.8.1 and 12.8.2.

12.8.1 <u>Torsion Test :-</u>

One specimen cut from each of the sample shall be gripped at its ends in two vices, one of which shall be free to move longitudinally during the test. A small tensile bond

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not exceeding 2% of the breaking load of the wire, shall be applied to the sample during testing. The specimen shall be twisted by consisting one of the vices to revolve until fracture occurs and the number of twists shall be indicated by a counter or other suitable device. The rate of twisting shall not exceed $\frac{60 \text{ rev}/\text{min}}{1000 \text{ min}}$.

When tested before stranding, the number of complete twists before fracture occurs shall not be less than <u>18 on</u> a length equal to <u>100 times</u> the diameter of the wire. The fracture shall show a smooth surface at right angles, to the axis of the wire.

When tested after stranding, the number of complete twists before fracture occurs shall be not less than <u>16 on</u> a length equal to <u>100 times</u> the diameter of the wire. The fracture shall show a smooth surface at right angles to the axis of the wire.

12.8.2 <u>Elongation Test:-</u>

The elongation of one specimen cut from each of the samples shall be determined. The specimen shall be straightened by hand and on original gauge length of 200 mm shall be marked on the wire. A tensile load shall be applied as described in 12.5 and the elongation shall be measured after the fractured ends fitted together. If the fracture occurs outside the gauge marks, or within 25 mm of either mark and the required elongation is not obtained, the test shall be disregarded and another test made. When tested before stranding, the elongation shall be not less than 4 percent. When tested after stranding, the elongation shall be not less than 3.5 percent.

12.9 Surface Condition Test :-

A sample of the finished conductor having a minimum recommended length of 5 meters with compression type dead end clamps compressed on both ends in such a manner as to permit the conductor to take its normal straight line shape, shall be subject to a tension of 50% of the UTS of the conductor. The surface shall not depart from its cylindrical shape nor shall the strands move relative to each other so as to get out of place of disturb the longitudinal smoothness of conductor. The measured diameter at any place shall be not less than the sum of the minimum specified diameters of the individual aluminium and steel strands.

12.10 Ultimate strength (UTS) Test on Stranded Conductor :-

Circles perpendicular to the axis of the conductor shall be marked at two places on a sample of conductor of minimum 5 m length suitably compressed with dead end clamps at either end. The load shall be increased at as steady rate up to specified 50% of UTS and held for one minute. The circles drawn shall not be distorted due to Relative movement of strands. Thereafter the load shall be increased at a steady rate

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to the minimum UTS specified in Appendix-I and held for one minute. The applied load shall then be increased until the failing load is reached and the value recorded.

12.11 Corona Extinction Voltage Test:-

One sample of conductor of 5m length shall be strung. In case of twin conductor, two samples shall be arranged with the actual sub-conductor spacing between them. This sample assembly when subjected to power frequency voltage shall have a corona extinction voltage of not less than 320 KV (rms) for 400 KV and 176 KV (rms) for 220 KV system line to ground under dry condition. There shall be no evidence of corona on any part of sample when all possible sources of corona are photographed in a darkened room. The test shall be conducted without corona control rings. The voltage shall be corrected for standard atmospheric conditions.

12.12 Radio Interference Voltage Test:-

Under the conditions as specified in 12.11 above, the conductor samples shall have a radio interference voltage level below <u>1500 microvolts</u> at one MHZ when subjected to 50 HZ AC voltage of 1.1 times maximum line to ground voltage under dry condition. This test may be carried out with corona control rings and arcing horns.

12.13 D.C. Resistance Test on Stranded Conductor:-

On a conductor sample of minimum 5 m length two contact clamps shall be fixed with a pre-determined bolt torque. The resistance shall be measured by a Kelvin double bridge by placing the clamps initially zero meter and subsequently one meter apart. The test shall be repeated at least five times and the average value recorded. The value obtained shall be corrected to the value at 20 degree centigrade as per clause No. 12.8 of IS : 398 (part V). The resistance corrected at 20 degree centigrade shall conform to the requirements of this specification.

12.14 Stress-Strain Test:-

12.14 (i) This test is contemplated only to collect the creep data of the conductor from the supplier. A sample of conductor of minimum 10 metres length shall be suitably compressed with dead end clamps.

12.14 (ii) **Test Set-up**

(a) The test sample shall be supported in a trough over its full length and the trough adjusted so that the conductor will not be lifted by more than 10 mm under tension. This shall be ascertained by actual measurement.

(b) The distance between the clamp and the sleeve mouth shall be monitored with callipers during the test to ensure that, after the test, it does not change by more than 1 mm +/- 0.1 mm from the value before the test.

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(c) The conductor strain shall be evaluated from the measured displacements at the two ends of the gauge length of the sample. The gauge reference targets shall be attached to the clamps which lock the steel and aluminium wires together. Target plates may be used with dial gauges or displacement transducers and care shall be taken to position the plates perpendicular to the conductor. Twisting the conductor, lifting it and moving it from side-to-side by the maximum amounts expected during the test should introduce no more than 0.3 mm error in the reading.

12.14 (iii) Test Loads for Complete Conductor

The loading conditions for repeated stress-strain tests for complete conductor shall be as follows:-

(a) 1 KN load shall be applied initially to straighten the conductor. The load shall be removed after straightening and then the strain gauges are to be set at zero at zero tension.

(b) For non-continuous stress-strain data, the strain reading at 1 KN intervals at lower tensions and 5 KN intervals above 30% of UTS shall be recorded.

(c) The sample shall be reloaded to 50% of UTS and held for 1 hour. Readings are tot be noted after 5, 10, 15, 30, 45 and 60 minutes during the hold period. The load shall be released after the hold period.

(d) Reloading up to 70% UTS shall be done and held for 1 hour. Readings are tot be noted after 5, 10, 15, 30, 45 and 60 minutes and then the load shall be released.

(e) Reloading up to 85% of UTS shall be done and hold for 1 hour. Readings are to be noted after 5, 10, 15, 30, 45 and 60 minutes and then the load shall be released.

(f) Tension shall be applied again and shall be increased uniformly until the actual breaking strength is reached. Simultaneous readings of tension and elongation shall be recorded up to 90% of UTS at the intervals described under Clause 12.14 (iii) (e).

12.14 (iv) Test Loads for Steel core Only

The loading conditions for repeated stress-strain tests for the steel core of ACSR shall be as follows:-

(a) The test shall consist of successive application of load applied in a manner similar to that for the complete conductor at 30%, 50%, 70% and 85% of UTS.

(b) The steel core shall be loaded until the elongation at the beginning of each hold period corresponds to that obtained on the complete conductor at 30%, 50%, 70% and 85% of UTS respectively.

12.14 (v) Stress Strain Curves

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The design stress-strain curve shall be obtained by drawing a smooth curve through the 0.5 and 1 hour points at 30%, 50% and 70% of UTS loadings. The presence of any aluminium slack that can be related to any observed extrusion entering the span from the compression dead ends shall be removed from the lower ends of the design curves. **Both the laboratory and design stress-strain curves shall be submitted to the purchaser along with test results**. The stress-strain data obtained during the test shall be corrected to the standard temperature i.e. 20 degree centigrade.

12.15. Chemical Analysis of Zinc

Samples taken from the Zinc ingots shall be chemically / spectrographically analyzed. The same shall be in conformity to the requirements stated in this specification.

12.16 Chemical Analysis of Aluminium and Steel

Samples taken from the Aluminium ingots / coils / strands shall be chemically / spectrographically analyzed. The same shall be in conformity to the requirements stated in this specification.

ROUTINE / ACCEPTANCE TESTS

12.17 Visual and Dimensional Check on Drums

The drums shall be visually and dimensionally checked to ensure that they conform to the requirements of this specification.

12.18 Visual Check for Joints, Scratches etc.

Conductor drums shall be rewound in the presence of the inspector. The inspector shall visually check for scratches, joints, etc. and that the conductor generally conforms to the requirements of this specification.

12.19 Dimensional Check of Steel and Aluminium Strands

The individual strands shall be dimensionally checked to ensure that they conform to the requirements of this specification.

12.20 Check for Lay-ratios of various Layers

The lay-ratios of various layers shall be checked to ensure that they conform to the requirements of this specification.

12.21 Breaking load test on welded Aluminium strand & Individual wires

Two Aluminium wires shall be welded as per the approved quality plan and shall be subjected to tensile load. The welded point of the wire shall be able to withstand the minimum breaking load of the individual strand guaranteed by the supplier

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12.22 Ductility Test

12.23 Wrapping test

12.24 Resistance test

12.25 Galvanising test

13. <u>RETEST AND REJECTION :-</u>

13.1 Each coil or spool selected for testing shall be tested for compliance with the requirements of Indian Standard Specification 398 (part-II) 1976 with latest amendment if any selected coil or spool not fulfill any of the test requirements, that particular coil or spool shall be withdrawn. In respect of each failure, two test pieces shall be selected from two different coils in the lot & subjected to the test under which the failure occurred. If either of the two retest pieces fails to pass that test, the lot concerned shall be rejected.

If samples are taken for test after stranding and if any selected reel fails in the retest, the manufacturer may test each and every reel and submit them for further inspection. All rejected materials shall be suitably marked and segregated.

14. <u>GUARANTEED TECHNICAL PARTICULARS :-</u>

The bidder shall fill in the guaranteed technical particulars in the Performa at Appendix-IV and submit the same with his tender, without which bid will not be considered.

15. SAG TENSION CHARTS AND SAG TEMPLATES :-

The contractor shall supply each six copies of sag tension charts and sag templates in respect of each type of the steel core aluminium conductor. The Contractor shall also supply sag template in celluloid which shall be subject to the approval by the purchaser and without involving any extra charges. The design data of the lines on which these conductors will be used are given in Appendix-III.

16. <u>SCHEDULE OF REQUIREMNTS, DESIRED DELIVERY :-</u>

16.1 The schedule of requirements and desired deliveries are indicated in Annexure-III (Schedule of Quantity & Delivery), Section – III of the Tender Specification. The purchaser reserves the right to order the entire quantity of Conductors as specified or part of the total quantity of Conductor specified.

S1.No	Description.	Panther ACSR	ZEBRA ACSR	
1	Size of conductor	30/7/3.00 mm	54/7/3.18 mm	
D	s ce	÷	•	

<u>APPENDIX-I</u>

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2	Stranding and wire diameter		
4		20/2/00/00/00	F 4/2 19 mm
	Aluminium	30/3.00 mm	54/3.18 mm
	Steel	7/3.00 mm	7/3.18 mm
3	Sectional area of Aluminium	212.10 sq. mm	428.9 sq. mm
4	Approximate total mass	974 Kgs / KM	1622 Kgs / KM
5	Calculated resistance at 20oC	0.139 Ohms /	0.06868 Ohms
	Max	Km	/ Km
6	Calculated breaking load of	89.67 KN	130.32 KN
	Composite conductor (U.T.S.)		
	(Min)		
7	Lay Ratio:- Steel Core	Max – 28	Max – 28
		Min – 13	Min – 13
	Aluminum Layers		
	12 Wire Layer	Max – 16	Max - 17
	(Innermost Layer)	Min - 10	Min - 10
	18 Wire Layer (Lay	Max- 14	Max- 16
	immediately beneath outside	Min - 10	Min - 10
	Layer)		
	24 wire layer (outside layer)		Max - 14
			Min - 10
8	Modulus of elasticity	0.815 x 10 ⁶ Kg x	
		CM2 (80 GN	Kg x CM2 (69 GN
		per sq. meter)	per sq. meter)
9	Co-efficient of linear expansion	17.8 x 10 ⁻⁶ /°C	19.3 x 10 ⁻⁶ /°C
	Of conductor per degree		
	centigrade		
10	10. Standard area of Cross	261.5 mm2	484.5 mm2
	Section in Sq.mm of		
	conductor		
11	Diameter of complete conductor	21.00mm	28.62 mm

<u>APPENDIX-II</u>

Solid Steel and Aluminium Wires used in Steel cored

Aluminium Conductors

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S1. No	Description.	Panther	ACSR	ZEBRA AC	SR		
NO		Steel	Alum.	Steel	Alum.		
1	Standard (in mm).	3.0	3.0	3.18	3.18		
	Maximum (in mm)	3.06	3.03	3.24	3.21		
	Muniimum (in mm)	2.94	2.97	3.12	3.15		
2	Cross sectional area of	7.069	7.069	7.942 sq.	7.942		
	nominal diameter.	mm²	mm²	mm	sq. mm		
3	Weight	55.13	19.11	61.95 Kg	21.47		
		Kg/KM	Kg/KM	/ Km	Kg / Km		
4	Minimum tensile strength		As per relevant ISS				
5	Minimum breaking load	10.43	1.29 KN	10.43 KN	1.29 KN		
	before stranding	KN					
6	Minimum breaking load	8.83 KN	1.11 KN	9.91 KN	1.23 KN		
	after stranding						
7	Zinc coating of steel						
	Strands						
	Number and duration of	3 (1		3 (1 Min.			
	dips	Min.		dip)			
		dip)					
	Minimum Weight of	As per		260			
	Coating (gm / m2)	IS-					
		4826-					
		1979					
8	Maximum resistance at		4.079	3.626	2.974		
	20°C of Aluminium						
	strands (Ohms/Km)						
9	Purity of aluminium rod		99.5%		99.5%		

<u>APPENDIX-III</u>

S1.No	Description.	Panther	ACSR	ZEBRA	ACSR	
1	Conductor	Steel	cored	Steel	cored	

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		Aluminium	Aluminium
2	(a) Copper equivalent	130 sq.mm	
	(b) Stranding	30/7/3.00 mm	54/7/3.18 mm
3	Normal Span	320 Meters	320 Meters
	Wind Span	320 Meters	320 Meters
	Weight Span (a) Max	500 Meters	500 Meters
	(b) Min	50 Meters	50 Meters
4	Wind Pressure on full Project	52 Kgf per M2	52 Kgf per M2
-	area	500	500
5	Temperature (a) Minimum	5°C	5℃
	(b) Maximum	67°C	67°C
	(c) Every day	32°C	32°C
6	Factors of safety: Minimum		
	(i)Every day temperature And	4.00	4.00
	no wind		
	(ii) Minimum temperature	2.00	2.00
	And 2/3 maximum wind :		
	(iii)Every day Temperature and	2.00	2.00
	Full wind (This is as per Indian		
	Electricity Rules, 1956).		
7	Relative Humidity Maximum	100 Per cent	100 Per cent
	Minimum	60 Per cent	60 Per cent
8	Isoceramic level	100 Years	100 Years
9	Number of rainy days per year	100 Days	100 Days
10	Average rainfall per year	1150 mm.	1150 mm.
	Approx.		
11	Altitude	Less than 350	Less than 350
		Meters	Meters

<u>APPENDIX-IV</u>

Guaranteed Technical Particulars of Conductor

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Sl.No	Description	PANTHER	ZEBRA	
1	Code Word			
2	2.Maker's name address and Country.			
	a) Aluminium rods			
	b) Steel Wire / rods			
	c) Complete Conductor			
3	Stranding and wire diameter			
	a) Aluminium			
	b) Steel			
4	Standard nominal copper Area in sq.mm			
5	Calculated equivalent Aluminium area in sq.mm			
6	Actual aluminium area In sq.mm			
7	Standard area of cross section In sq.mm			
	a) Aluminium strand			
	b) Steel Strand			
	c) Conductor			
8	Diameter of complete			
	Conductor in mm			
9	Minimum ultimate tensile			
	strength of strand, in			
	Kg/sq.mm. Before tranding			
	and after stranding for			
	a) Aluminium strand			
	b) Steel Strand			
10	Guaranteed ultimate tensile			
	Strength of conductor in Kg.			
11	Minimum breaking load in			
	Kg. Before stranding and			
	after Stranding for			
	a) Aluminium strand			
	b) Steel Strand			
12	Purity of aluminium rods.			

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13	Zinc coating of steel strand		
	a)Uniformity of coating		
	number and / duration of		
	dips		
	b)Minimum weight of coating		
	gm/sq.mm		
14	Weight in Kg. Per K.M.		
	a) Aluminium		
	b) Steel		
	c) Conductor		
15	Resistance in ohms per Km.		
	At 20°C.		
16	Continuous maximum		
	current Rating of conductor in still Air at		
	45°Cambient		
	emperature,Considering temp. rise of 50°C.		
	-		
17	Modulus of elasticity of Conductor.		
18	Co-efficient of linear		
	expansion Per degree		
	centigrade of.		
	a) Aluminium strand.		
	b) Steel Strand		
10	c) Conductor		
19	Percentage of carbon in steel wire		
20	Standard length of each		
	Piece in Km		
21	Initial and final sags and		
	Tension and stringing		
	charts, Whether furnished		
22	Tolerance, if any on standard		
	length		
23	Number of standard length		

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	in one reel	
24	Dimensions of the reel in	
	cms.	
25	Weight of the Conductor	
	In one reel in Kg.	
26	Weight of the reel in Kg.	
27	Gross weight of the reel	
	Including weight of the	
	conductor	
28	Whether the conductor will	
	be manufactured as per	
	the relevant Indian Standard	
	Specification & as per	
	Section-IV 'technical	
	specification' of this	
	specification	
29	Whether the conductor will	
	be Tested As per the	
	relevant Indian Standard	
	Specification & as per	
	Section-IV Technical	
	specification' of this	
	specification. (Clause-12 of	
	Section – IV of Technical	
	Specification)	
30	Other particulars, if any.	

Signature of the Tenderer

Address

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ANNEXURE-III

SCHEDULE OF QUANTITY AND DELIVERY

(To be filled up by the tenderer)

Lot	Description	Quantity	Quantity	Desired	Desired	Destina	Remar
No.	of materials	required.	required.	delivery for	delivery for	tion.	ks.
		2018-19	2019-20	2018-19	2019-20		
1.	2.		3.	4.		5.	6.
i	ACSR	321.00	30.0 KM	Delivery to be	Delivery to be	OPTCL	
	Panther	KM		completed	completed	Stores/	
ii	ACSR Zebra	357.00 KM	Nil.	within 3	within 3	Sites	
				months from	months from	within	
				the date of	01/04/2019.	State of	
				issue of the		Odisha.	
				purchase			
				order.			

Place:

Date:

Signature of Tenderer with seal of Company.

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SCHEDULE - C

1. conductor.

- a) Nominal area 465 Sq.mm Zebra
- b) Stranding 37/4 mm
- 2. Normal Span 320 meters
- Wind Span 320 meters
- 2.1 Wind Span
- a) Max. 500 meters
- c) Min. 50 meters
- 2. Wind Pressure on full

Projected area. 4/52 kg per m2

- 3. Temperature
- a) Minimum 5°C
- b) Maximum 67°C
- c) Every day 32°C
- 4. Factors of safety : Minimum
- i) Every day temperature and non wind. 4.00
- ii) Minimum temperature and 2/3 maximum wind : 2.00
- iii) Every dayTemperature and full wind 2.00
- This is as per Indian Electricity Rules, 1956
- 5. Relative Humidity.

Maximum 100 percent

Minimum 60 percernt

- 6. Isoceramic level 100/Years
- 7. Number of rainy days per year 100 days
- 8. Average rainfall per year 1150 mm Approx.
- 9. Altitude Less than 350 Meters

PART – II PRICE BID

1. **PRICE:**

 Bidders are required to quote their price(s) for goods offered indicating they are "VARIABLE" as per IEEMA PV.

(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.

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