

**CHHATTISGARH STATE POWER  
TRANSMISSION CO. LTD.**

**OFFICE OF EXECUTIVE DIRECTOR (STORES & PURCHASE)  
C.S.P.TRANS.C.L., DANGANIA, RAIPUR: 492013 (C.G.)**

**Phone No. 0771- 2574240 FAX: 0771-2574246**

**TENDER SPECIFICATION No. TR- 21/S&P/23**

**SUPPLY OF 70KN, 90KN and 160 KN  
DISC INSULATOR  
(*Through : E-bidding*)  
RFX No. -8100023313**

**LAST DATE & TIME OF SUBMISSION OF TENDER  
27/10/2021 (TIME 15:00 HRS.)**

**DUE DATE OF OPENING OF TENDER  
27/10/2021 (TIME 15:30 HRS.)**

**Price  
Rs. 1120/- Printed Tender Form  
Rs. 1180/- Downloaded E- Tender Form**

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**TENDER FORM**  
**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.**

Tender document SL.No.....

ISSUED to M/s -----

Cost of Tender documents Rs.....

Received vide D.D.No.....Dtd.....

Name of Bank -----

**Signature & Seal of Issuing Authority**

**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.**  
**RAIPUR**  
**TENDER FORM**

The undersigned hereby tender and offer (subject to CSPTCL conditions of tendering), the CHHATTISGARH STATE POWER TRANSMISSION CO. LTD. to test and supply, plant, machinery, materials, deliver and execute and do the several works and things which are described or referred to in the enclosures & Annexure to the specification **TR-21/S&P/23**, copies of which are annexed hereto and which under the terms thereof are to be supplied, executed and done by the contractor in a thoroughly good and workman like manner, and to perform and observe the provisions and agreements or the part of the contract contained in or reasonably to be inferred from the said tender documents for the sum and at the rates set out in schedules annexed hereto.

It is confirmed that:

- (I) Questionnaire for Commercial terms and conditions.
- (II) Questionnaire for Technical specifications of the Materials, and
- (III) All other conditions wherever described in the tender documents have been replied in full giving clear details. It has been noted that in case any reply is not given or any reply is incomplete/ambiguous the Board will have right to take the same to be advantageous for the company. Company's decision in this regard will be final. The bidder will have no right to furnish any technical or commercial clarification after opening of the bid, which may in any way alter the offered prices.

Dated, this ..... day of .....

**Bidder's Signature**

**Bidder's Address.**

C.I.N. : U40108CT2003SGC015820

**CHHATTISGARH STATE POWER TRANSMISSION COMPANY LTD. RAIPUR**

(A Government of Chhattisgarh Undertaking)

**OFFICE : EXECUTIVE DIRECTOR (STORES & PURCHASE) ,****Address : 3<sup>rd</sup> Floor, LD Building, Dangania-Raipur (CG)-492013**Website:[www.cseb.gov.in](http://www.cseb.gov.in)

Fax:0771-2574246, Tele.0771-2574238/4240

No.02-16 / TR-21/S&amp;P/ 23/

Raipur, Dtd:

**E-PROCUREMENT TENDER NOTICE**

Sealed tenders are invited from experienced manufacturers for supply of following equipments/ materials.

Sl. No.	Tender No.	Particulars	Qty in Nos.	Cost of tender document including GST (Rs. )		EMD (Rs.)	Due date
				Printed Tender Form	E-Tender Form Online (downloaded from website)		
1.	TR-21/S&P/23	70 KN Disc Insulators	15000	1120/- (Incl. of 12% GST)	1180/- (Incl. of 18% GST)	1,83,000/-	27.10.2021
2	RFx No 8100023313	90 KN Disc Insulators	17500				
3		160 KN Disc Insulators	3400				

- NOTE:- i) In case any of the above dates is declared as holiday then the particular date will automatically get shifted to next working day.
- ii) The quantities mentioned above are tentative & may vary according to final requirement.
- iii) Any notice for extension of due date of tender opening shall not be published in newspapers. It will be displayed only on official website of the company.
- iv) The tender will be processed through e-bidding module of SAP-SRM. Bidders are advised to visit our website [www.cspc.co.in](http://www.cspc.co.in)/csptcl for viewing detailed instructions regarding submission of offer through SAP-SRM.
- v) The NIT shall also be published in [www.tarang.website](http://www.tarang.website)

**// TERMS AND CONDITIONS //**

- (i) The tender documents can be obtained from the office of the ED (S&P),CSPTCL,Raipur in person on payment of cost of tender documents in the form of DD only made out in the name of Manager (RAO: HQ), CSPTCL, Raipur accompanied with firm's application on its letter head. If tender document is required by post, Rs.250/- is to be paid by DD additionally along with the cost of documents. If more than one tender document is required, separate DDs should be furnished for each tender. CSPTCL shall not be

responsible for any postal delay in receipt/ non-receipt of tender documents. No receipt of tender shall be issued in any case.

- (ii) The tender document can also be downloaded from official website of CSPTCL ‘www.cspc co.in (go through Chhattisgarh State Power Transmission Co. Ltd.- Tender Notice/ Store & Purchase Offices) and required tender fee in form of DD in favour of Manager (RAO:HQ), CSPTCL, Raipur payable at Raipur should be submitted along with EMD in envelope containing DD of EMD. The envelope containing DDs of cost of tender document and EMD should be suitably super scribed “DDs containing cost of tender document and EMD”. The details of DDs be mentioned on the outer side of the envelope also. Please note carefully in absence of aforesaid requisite tender fee, further bids shall not be considered for opening.
- (iii) Tender document and the details specification can be obtained on any working day one day prior to the due date. The tenders duly filled in shall be dropped/ get dropped in the specified tender box up to 12.00 Hrs. respectively on the due date. Any other means of delivery shall not be accepted. No receipt of tender shall be issued in any case. The tender box shall be locked/ sealed at 12.00 Hrs. respectively on the due date and shall be opened at 12.30 Hrs on the same date.
- (iv) After publication of NIT & before the date of opening of TC bid, corrigendum/ other information (if any) shall be displayed on our official web only. The bidders are requested to remain in contact with this office or visit our web-site for any development/ clarification/ amendment issued subsequently.
- (v) CSPTCL reserves the right to accept or reject any or all the offers, in part or full without assigning any reason whatsoever.

**Executive Director (S&P)**  
**CSPTCL : Raipur**

## **Special Instructions to bidders for submission of bid through SAP- SRM module (e-bidding)**

The tender specification no. **TR-21/S&P/23** is to be processed through e-bidding. The Techno commercial bid is to be submitted online as well as offline (hard copy). Details of NIT & Tender Documents are available on our website – **<http://www.cspc.co.in>** & **<http://ebidding.cspcl.co.in:50700/irj/portal>**. The bidder may download the same from the above site. In e-bidding portal, tender documents will be displayed in online tender display at Technical RFx section.

Last date & time of submission of techno commercial bid in hard copy and upload details in softcopy is **27.10.2021 upto 15:00 pm**. Due date & time of opening of part –I and part-II in Hard copy and TC bid soft copy details through SAP SRM ( e- bidding Portal) of the tender is **27.10.2021 at 15:30 pm**. Price bid is not required to submit in Hard copy.

### **Important Instructions :-**

1. Please note that this tender shall be processed online as well as offline. The bidder has to submit all the documents in hard copy as per tender specifications in four envelopes. Besides above, scanned copy of following documents are to be uploaded in e-bidding portal:-
  - (a) The scanned copy of DD for tender fee.
  - (b) The scanned copy of DD for EMD/ EMD exemption.
  - (c) Schedule II-Part II – Technical information.
  - (d) Schedule III Technical deviation
  - (e) Schedule IV Schedule for commercial information.
  - (f) Schedule V Schedule for commercial deviation.

It may please be noted that only above mentioned documents are to be uploaded in e-bidding portal and no other document is required to be submitted in e-bidding portal. The bidder shall give reply to following questions regarding above documents in e-bidding portal:-

  - (i) Whether scanned copy of tender fee DD uploaded. Yes/No
  - (ii) Whether scanned copy of DD of EMD /EMD Exemption uploaded. Yes/No
  - (iii) Whether scanned copy of Schedules of Commercial information Yes/No
  - (iv) Whether scanned copy of Schedules of Commercial deviation Yes/No
  - (v) Whether scanned copy of Schedules of Technical deviation Yes/No
2. It is not required to upload /attach scanned copy of price bid in soft copy. **Only the rates are to be filled in the item tab in e-bid in SAP SRM System (online e-tender)**. Rates should be quoted online & in specified fields only. Once the rates are filled, the bidders may change their rates upto the due date and time of submission of tender. After due date and time, no change on any ground whatsoever will be accepted.
3. After scrutiny of techno-commercial bid, the price bid will be opened in e-bidding system only of eligible bidders for which suitable intimation will be given to the bidders offline & through email.
4. Please note that e-mail is always system generated, hence bidders are advised to regularly check their inbox/junk mail box.
5. CSPTCL shall not assume any responsibility for non-supporting of system, internet, line & associated hardware & software for bidding their tender. No extension in time shall be granted on such grounds. The bidder should submit their bid well before submission dead line to avoid any system related

problem. It is strongly recommended not to wait for submission of bid in last minutes as internet/technical problem may disrupt their works.

6. Reference time for submission dead line shall be the time displayed in the portal and shall be treated as final.
7. After end of submission dead line, no alteration in the tender will be allowed by the system. However, in case of extension of due date of opening of tender, the bidders will be allowed to submit revised bid in the system.
8. CSPTCL will not accept incomplete bid.
9. The bidder must have a valid Digital Signature & SAP SRM User ID. User ID & Password from CSPTCL and Digital Signing Certificate and Digital Encryption Certificate from any recognized digital signature issuing authority are required for participation in any Tender. The bidder shall intimate in advance regarding details of digital signature issuing authority for ensuring the reliability of the same. For User ID and Password for participating in the tender, the bidder shall register on line through e-bidding portal.
10. The e-bidding vendor user manual displayed on website-<http://ebidding.cspcl.co.in:50700/irj/portal> for the help of the bidders. For any further queries the bidder may contact at **Helpline no. 0771-2576672/73 (EITC, CSPDCL, Raipur)**.
11. The training for bidders will be on every Wednesday from 3.00 pm to 5.00 pm at office premises of Energy Info Tech Center (EITC) at Dangania, Raipur.
12. Tender shall be opened in the scheduled time as notified. If the due date of opening/submission of tender documents is declared a holiday by the Govt. or local administration, it will be automatically shifted to next working day for which no prior intimation shall be given. Tender opening shall be continued on subsequent days, in case the opening of all tenders is not completed on due date because of the technical constraints of system on the day of opening. It may be noted that the due date of opening/time may be altered/ extended if desired by CSPTCL without assigning any reason. However, intimation shall be available on company's tender portal/bidders email (if participation shown). The bidders are requested to keep track of the same.
13. Amendment in tender specification will be published on our website as well as in SRM system and the intimation regarding amendment in date extension will be conveyed through system generated e-mail to registered bidders only.
14. Before participating the bidder shall carefully read all the instructions and processes.
15. Tender duly completed in all respects will be accepted online up to due date & time and will be opened on the due date at specified time in the presence of bidders or their authorized representatives. In case of authorized representative(s) they shall bring the original authorization letter with their signature attested by the bidder.

**Executive Director (S&P)**  
**CSPTCL: RAIPUR**

**Annexure-I**  
**SPECIAL INSTRUCTIONS TO BIDDERS**

**IMPORTANT:** Except as otherwise provided in any subsequent modification/LOI/Order, the provision of this Section shall have effect notwithstanding anything inconsistent therewith contained in any other Schedule/ Annexure/ Clause/ Terms/ Condition of this tender document).

**E-Bidding & Due date:** Please note that the Tender shall be processed through e-Bidding. Instruction to Bidders for submission of Bids through SAP-SRM Module (e-bidding) are detailed in **Instructions to bidders for submission of bid through SAP- SRM module (e-bidding)-**

1. The bidders are requested to go through these instructions carefully and submit the tender in e -bidding portal and also in hard copy accordingly.

Date of submission of tender is 27.10.2021 **upto 15:00 PM** and tender will be opened on same day at **15:30 PM** in the Office of ED (S&P), CSPTCL, Danganiya, Raipur, through E-bidding as per the guidelines .

The Chhattisgarh State Power Transmission Company Ltd., Raipur (or any authority designated) - hereinafter called 'OWNER' or 'CSPTCL' or 'Company' - will receive bids as per the accompanying specification. All bids shall be prepared and submitted in accordance with instructions, terms and conditions stipulated in the tender.

2. **Tender Fee:** - The tender document can also be downloaded from official website of the CSPTCL ([www.cspc.co.in/csptcl](http://www.cspc.co.in/csptcl)). In case bidder chooses to submit his offer on downloaded tender document, they will be required to deposit specified tender fee (cost of tender documents- non refundable) in form of DD in favour of Manager (RAO:HQ), CSPTCL, Raipur payable at Raipur. The bank draft shall be issued from the nationalized/ scheduled bank. **DD should be enclosed with the part I of the tender offer.** In absence of tender fee, offer will not be considered for opening of price bid.
- 3.(i) **Earnest Money:**-The Earnest Money in the instant tender is **Rs. 1,83,000/- (Rs One Lacs Eighty three thousand only) payable** in the form of demand draft **in favour of Manager (RAO:HQ), CSPTCL, Raipur, payable at Raipur (Chhattisgarh).** The other details regarding mode of submission of EMD/ exemption from EMD etc are given in clause No. 5.0 of Section-I “General Terms & Conditions of the Tender”.
- (ii) **Goods & Service Tax:**-The bidder should furnish valid GST registration certificate alongwith EMD. In absence of GST registration the offer shall not be accepted.
4. The bidding is open to manufacturers only who can provide satisfactory evidence to substantiate this.

5. **Qualifying Requirements:-**



The bidder is required to furnish Self attested (i.e copy attested by authorized signatory of the tender) document proof for having acquired following Pre Qualifying Requirement (PQR) :-

SN	Pre Qualifying Requirement	
	Particulars	Documents to be submitted in support Self attested copies (i.e copy attested by authorized signatory of the tender).
<b>Technical Criteria</b>		
01	The Bidder should be manufacturer of tendered items having manufacturing unit in India	Valid NSIC/DIC certificate for tender items duly attested by self. In case firm is not registered with NSIC/DIC, bidder should furnish self attested copy of Factory Registration Certificate issued by Industries Department of State/Central Govt. for tendered.
2(a)	<p>The bidder should have minimum experience of <b>5</b> years for manufacturing &amp; supply of tendered item to following Indian entities as on the date of issue of NIT:-</p> <p><b>i.)</b> Power utilities owned and controlled by Central or State Govt., <b>Or</b></p> <p><b>ii.)</b> PSUs, <b>Or</b></p> <p><b>iii.)</b> Govt. Organizations'</p> <p>Further these, insulators should be in successful operation for minimum <b>03 year</b> from the date of commissioning as on date of issue of NIT in the aforesaid entities</p>	<p><b><u>For Regular Suppliers (a) In support of supply</u></b>-copies of purchase order (in the name of manufacturer) and relevant MRCs (Material Receipt Certificate) issued by the entities mentioned will be submitted. The date of receipt mentioned in MRC will be treated as actual date of supply. The supply experience as on the date of issue of NIT will be counted from the aforesaid actual date of supply. In case of non-availability of MRC, commissioning certificate /Performance certificate may also be treated as proof of actual supply provided it establishes the requirements as per PQR and is issued by an officer not below the rank of Executive Engineer/Manager of the entities mentioned in clause-2 of the PQR.</p> <p>If performance certificate indicates both proof of supply experience of 03 years or more and satisfactory performance for 01 years or more, separate MRC will not be required as a proof of supply. However, if only MRC is submitted as proof of supply, performance certificate will have to be submitted separately to establish minimum performance of one year as per PQR. All these documents should be attested by the authorized signatory of the tender.</p> <p><b><u>Supply through turnkey contracts:-</u></b></p> <p>i) Copies of order issued by the entities mentioned in para A(2) of PQR to the turnkey contractor (Order should be in the name of the turnkey contractor).</p>

	<p>(b) <b><u>For C.G State SSI units: for 132kV/70KN and 132kV/90KN only</u></b> Chhattisgarh State based Micro and Small Enterprises (hereinafter referred as CG State SSI Units) should be registered under Micro, Small and Medium Enterprises Development Act, 2006 for manufacturing tendered item or higher.</p>	<p>ii) Copies of order issued by the turnkey contractor(s) to the manufacturer (bidder).                  iii) Copies of inspection letter and dispatch clearance issued by the entities mentioned in para A(2) of PQR to the manufacturer (bidder).                  iv) Copies of invoice issued by the turnkey contractor to the entities mentioned in para A(2) of PQR.                  v) Copies of performance certificate issued by the entities mentioned in para A(2) of PQR towards proof of execution of order placed by the turnkey contractor to the manufacturer (bidder).</p> <p><b>b) <i>In support of satisfactory performance</i></b>, a self attested copy of performance certificate issued by the entities mentioned in clause-3 of the PQR will be submitted.</p> <p>Copy of registration under MSME act 2006, type test and BIS license for tender items, duly self attested.</p>
<p>03</p>	<p>The bidder should have all the type test certificates of tendered item materials as per relevant standards i.e. ISS/IEC issued by Govt. standard test laboratory/ NABL accredited laboratory shall be submitted along with the tender. The type test certificate of tendered materials shall not be more than <b>10</b> years old from the date of issue of NIT.</p>	<p>Self attested copy of test certificate.</p>

<b><u>Commercial/Financial Criteria</u></b>		
04 (a)	<p><b><u>For Regular Suppliers</u></b> The bidder should have minimum average annual turn over (<b>MAAT</b>) for best three years out of last five financial years (i.e. 2015-16, 2016-17, 2017-18, 2018-19&amp; 2019-20) of <b>Rs. 2.75 Cr.</b></p> <p>In case bidder is a holding company, MAAT shall be that of holding company only (i.e. excluding its subsidiary / group companies). In case bidder is a subsidiary of a holding company, the MAAT shall be of subsidiary company only (excluding its holding company).</p>	<p>Self attested copies of statement of annual turnover (as per annexure of the tender), audited balance sheets and profit &amp; Loss statement should be furnished in support, duly certified by Chartered Accountant. The balance sheets furnished should be for last five financial years (i.e. 2015-16, 2016-17, 2017-18 , 2018-19&amp; 2019-20) .</p> <p>Self attested copies of statement of aggregate turnover audited balance sheets and profit &amp; Loss statement should be furnished in support, duly certified by Chartered Accountant. The balance sheets furnished should be for FY2017-18 , FY2018-19 &amp; FY2019-20.</p>
(b)	<p><b><u>For C.G State SSI units for 132kV/70KN and 132kV/90KN only</u></b></p> <p>CG State SSI units should have the aggregate turnover of minimum Rs. <b>12.11</b> lacs during last 3 financial years i.e FY, FY2017-18 &amp; FY2018-19 &amp; FY2019-20.</p>	<p>Self attested copies of statement of aggregate turnover audited balance sheets and profit &amp; Loss statement should be furnished in support, duly certified by Chartered Accountant. The balance sheets furnished should be for FY2017-18 , FY2018-19 &amp; FY2019-20.</p>
05	<p>Net worth of bidder for last 3 financial year i.e. 2017-18 , 2018-19 &amp; 2019-20 should be positive .Net worth means the sum of total of the paid up of the capital and free reserves (excluding reserves created out of revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets.</p>	<p>Self attested copy of Statement showing '<b>Net Worth</b>' indicating assets and liability of firm duly certified by Chartered Accountant for the last three financial years i.e. FY2017-18 , FY2018-19 &amp; FY2019-20</p>
06	<p>The bidder should not be debarred/black listed by Bank/State Govt./Central Govt./State PSU/CPSU/SEB/ Public utility as on the date of issue of NIT.</p> <p>However, the bid may not be considered for further processing in following cases also:</p> <p>i) If bidder is debarred/blacklisted by Bank/state Govt./Central Govt./State PSU/CPSU/SEB/public utility up to date of opening of price bid of the instant tender.</p> <p>ii) If a case comes to notice regarding submission of forged/fake document in any other tender under process in CSPTCL up to date of opening of price bid of the instant tender.</p>	<p>A declaration in this regard shall be furnished by the bidder.</p> <p><i>(Name of the bidder) M/s.....is not debarred/black listed by Bank/State Govt./CentralGovt./StatePSU/CPSU/SEB/ Public utility as on the date of issue of NIT.</i></p>

7	Any sum of money due to CSPTCL on the date of opening of tender should have been paid/settled in full prior to the date of opening of tender. Price bids of bidders not complying with this requirement shall not be opened.	A declaration in this regard shall be furnished by the bidder.
8	<p>The bidder shall submit certificates (in original) issued by CA duly mentioning UDIN no. of that CA. confirming fulfilment of following criteria :</p> <p>(a) Bidder should have discharged all its payment obligations (Principal/Interest) on outstanding debentures (i.e. debentures which have not yet been redeemed), if any, and no such payment as on 30.06.2021 should be outstanding/overdue.</p> <p>(b) Bidder should not be presently in default in payment of any bank loan or interest thereon for more than three months or any loan account of the bidder should not have been classified as NPA (Non performing Assets) by the creditor/lending bank, as on date of issue of NIT.</p>	<p>The bidder shall furnish self attested certificate (in original) issued by CA duly mentioning UDIN no. of that CA confirming fulfilment of following criteria:-</p> <p><i>(a) All payment obligations (principal / Interest) on outstanding debentures (i.e. debentures which have not yet been redeemed) have been discharged and no such payment as on 30.06.2021 is outstanding / overdue.</i></p> <p><i>(b) The bidding company is presently not in default in payment of any bank loan or interest thereon for more than three months or any loan account of the bidder has not been classified as NPA (Non performing assets) by the creditor/ lending bank as on date of issue of NIT.</i></p>
9	All the documents/ statements/Attachments /information submitted by the bidder in proof of the qualifying requirements <b>must</b> be authentic/genuine/correct and in case, any of the said documents/ statements /attachments/information is found to be false /fake/misleading the bidder will be disqualified and action will be taken against the bidder as per relevant provision of the tender.	<p>Self attested declaration shall be furnished by the bidder:-</p> <p><i>All the documents/ statements/ attachments/information submitted by (Name of the bidder) M/s..... in proof of the qualifying requirements <b>are</b> authentic/genuine/correct and in case, any of the said documents/statements/ attachments/information is found to be false /fake/misleading the bid will be disqualified and action will be taken as per relevant provisions of the tender.</i></p>
10	The bidder shall have to submit pre-contract integrity pact in the format enclosed as Schedule X on non-judicial stamp paper worth Rs.250/- duly signed by the bidder along with the Techno-Commercial bid. The validity of this integrity pact shall be from the date of its signing and extended up to 2 years or the complete execution of the order to the satisfaction of both the Buyer and the Bidder/Seller, whichever is later. In case Bidder is unsuccessful, this Integrity Pact shall expire after six months from the date of its signing.	The bidder shall have to submit duly signed pre-contract integrity pact in the format enclosed as Schedule X on non-judicial stamp paper worth Rs.250/-.

6. The prices offered should be in Indian Rupees. The offered rates should be valid for 180 days from due date of tender. In case of extension in due date of opening, the validity shall be counted from the extended due date on which TC bid has been opened. The prices offered should be **FIRM**.

7. PRICE BID has to be submitted in prescribed format only as per **SCHEDULE-I**. Ex-works price including packing & forwarding charges should be quoted. Goods & Service Tax (GST), any other charges & freight charges should be quoted separately. The total F.O.R. destination price should be quoted in the relevant column. The freight shall be on FIRM basis. It may please be noted that only statutory variations due to Govt. Regulation in the rate of GST & other taxes/levies shall be permitted by CSPTCL only within contractual delivery schedule.
8. The rates quoted in the price bid shall be taken as final for computing the competitive rates and for all purpose.
9. The tender document shall be available for sale in the Office of ED (S&P), CSPTCL on payment of the cost of tender document through demand draft / cash payment on all working days up to one day prior to the due date of opening. The tender document shall also be displayed in CSPTCL's website i.e. [www.cspc.co.in](http://www.cspc.co.in) and bidders may download the tenders from the website directly. In such case, the payment of cost of tender document shall be made through demand draft along with the tender. The details are given in **clause No. 7 of Section-I. In such case, the cost of tender document in the form as detailed above be submitted along with the tender in EMD envelop. In absence of same, the tender shall not be opened.**
10. The bidder should have adequate plant and machinery necessary for the manufacture of the tendered item.
11. The CSPTCL reserves the right to reject any or all tenders or accept any tender in full or part, considered advantageous to the CSPTCL, whether, it is lowest or not without assigning any reason whatsoever.
12. **Offered quantity:** It is obligatory on part of bidders to offer at least 60% of the tendered quantity of material for manufacturer other than C.G. state SSI units. Bids with an offer of less than 60% of tendered quantity shall not be considered. **However, CG State SSI Unit shall offer minimum 10 % of quantity allocated for CG State SSI Units, below which the offer will not be considered.**
13. **Criteria for placement of order: - For C.G State SSI units:-** For C.G State SSI units meeting all technical requirements of tender upto maximum **25% of tendered quantity (i.e. 3750 nos 132kV/70KN and 4375 nos 132kV/90KN Disc Insulators )** is reserved for CG State SSI/ MSME units for procurement subject to following terms & condition.
  - 1) Chhattisgarh State based Micro and Small Enterprises (hereinafter referred as CG State SSI Units) should be registered under Micro, Small and Medium Enterprises Development Act, 2006 for tendered items.
  - 2) CG State SSI units should have the requisite valid type test reports of tendered material/equipment and BIS License.
  - 3) CG State SSI units - offering against reserved quantity for CG State SSI units, shall not quote price for the tendered item.
  - 4) C.G State SSI units has to offer minimum 10% of quantity allocated for C.G State SSI units
  - 5) Maximum quantity of tendered item which any CG State SSI unit may offer shall be restricted to 100% of reserved quantity for CG State SSI Units. However it shall be limited as per production/manufacturing capacity of that item (as mentioned in the SSI Certificate) with respect to time frame of supply mentioned in the tender.

- 6) If any CG State SSI unit submits the price bid in open tender, he shall not be considered against quantity reserved for C.G State SSI units.
- 7) The rate quoted by the L-1 bidder in the open tender shall be counter offered to all eligible CG State SSI units. On receipt of their acceptance, earmarked quantity for CG units(maximum 25%) shall be equally distributed to all such firms subject to their individual ceiling.
- 8) In case of non/partial acceptance of allotted quantity by any CG State SSI units, the unallocated remaining quantity out of reserved tendered quantity(maximum 25%) shall be equally distributed among other eligible CG State SSI units subject to their consent and individual ceiling.
- 9) In case any quantity or whole quantity remains left from CG State SSI units, the same shall be allocated to regular bidders in same ratio as per tender clause.
- 10) CG State SSI units are also eligible for extension order up to 50% of the original order quantity placed on them.

**For Regular Suppliers :-** The balance tendered quantity other than reserved for CG State SSI Units for tendered item will be offered to respective lower bidder for each item . However in case entire quantity cannot be allocated to L-1 bidder due to not quoting full quantity balance quantity shall be procured from next lowest bidders( L-2) on L-1 rate on counter offer basis.

14. Bidders are requested to go through Technical requirement carefully and it may be noted that furnishing of all information as required in various schedules enclosed is a must. In case any of the schedule, duly filled in, is not found furnished as required in the Schedules / Annexure, the tender will be treated as incomplete, and may be liable for rejection without any correspondence by the CSPTCL.

**15. INTEGRITY PACT:** - The bidder shall have to submit pre-contract integrity pact in the format enclosed as Schedule XII on non-judicial stamp paper worth Rs.300/- duly signed by the bidder along with the Techno-Commercial bid. The validity of this integrity pact shall be from the date of its signing and extended up to 2 years or the complete execution of the order to the satisfaction of both the Buyer and the Bidder/Seller, whichever is later. In case Bidder is unsuccessful, this Integrity Pact shall expire after six months from the date of its signing.

16 **“““EXTREMELY IMPORTANT”- (Bidders to note this to avoid rejection of the bid)**

**Attention of bidder is drawn to the fact that all the documents required as per tender are submitted along with bid on or before due date of tender. The bid submission date is cut-off date of submission of all the documents required as per tender and every bidder must adhere to this dead line.**

**However, if any short coming is observed during scrutiny of TC bid, CSPTCL reserves the right to seek required clarifications/documents from bidder giving them only one chance to submit required documents/ clarification/ confirmations within specified time line.**

**It may also be noted that if a bidder has quoted ‘NIL’ deviations in Schedule IV (deviation technical specifications / condition and Schedule III (deviation commercial conditions) this will have an overriding effect on any other condition noted as deviations elsewhere in the bid.**

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**Section-I**  
**GENERAL TERMS & CONDITIONS OF THE TENDER**

**1 Scope :-**

The tender specifications shall cover supply of tendered items as per the technical specifications mentioned in Section-II of the tender document.

**2 Acceptance of offers:-**

While the tenderers may make all out efforts to offer for the complete scope of tender, they may please note that the CSPTCL reserves the right to split the tender into different lots towards supply.

Bidders are advised to go through the contents of specific requirement for standard conditions very carefully and in absence of non-compliance/ lapse, responsibility for the same will rest on bidders

**3 Offered quantity:**

It is obligatory on part of bidders to offer at least 60% of the tendered quantity of material for manufacturer other than C.G. state SSI units. Bids with an offer of less than 60% of tendered quantity shall not be considered. **However, CG State SSI Unit shall offer minimum 10 % of quantity allocated for CG State SSI Units, below which the offer will not be considered.**

**4 Criteria for placement of order: - For C.G State SSI units:-** For C.G State SSI units meeting all technical requirements of tender upto maximum **25% of tendered quantity (i.e. 3750 nos 132kV/70KN and 4375 nos 132kV/90KN Disc Insulator )** is reserved for CG State SSI/ MSME units for procurement subject to following terms & condition.

- 1) Chhattisgarh State based Micro and Small Enterprises (hereinafter referred as CG State SSI Units) should be registered under Micro, Small and Medium Enterprises Development Act, 2006 for tendered items.
- 2) CG State SSI units should have the requisite valid type test reports of tendered material/equipment and BIS License.
- 3) CG State SSI units - offering against reserved quantity for CG State SSI units, shall not quote price for the tendered item.
- 4) C.G State SSI units has to offer minimum 10% of quantity allocated for C.G State SSI units
- 5) Maximum quantity of tendered item which any CG State SSI unit may offer shall be restricted to 100% of reserved quantity for CG State SSI Units. However it shall be limited as per production/manufacturing capacity of that item (as mentioned in the SSI Certificate) with respect to time frame of supply mentioned in the tender.
- 6) If any CG State SSI unit submits the price bid in open tender, he shall not be considered against quantity reserved for C.G State SSI units
- 7) The rate quoted by the L-1 bidder in the open tender shall be counter offered to all eligible CG State SSI units. On receipt of their acceptance, earmarked quantity for CG units(maximum 25%) shall be equally distributed to all such firms subject to their individual ceiling.

- 8) In case of non/partial acceptance of allotted quantity by any CG State SSI units, the unallocated remaining quantity out of reserved tendered quantity(maximum 25%) shall be equally distributed among other eligible CG State SSI units subject to their consent and individual ceiling.
- 9) In case any quantity or whole quantity remains left from CG State SSI units, the same shall be allocated to regular bidders in same ratio as per tender clause.
- 10) CG State SSI units are also eligible for extension order up to 50% of the original order quantity placed on them.

**For Regular Suppliers :-** The balance tendered quantity other than reserved for CG State SSI Units for tendered item will be offered to respective lower bidder for each item . However in case entire quantity cannot be allocated to L-1 bidder due to not quoting full quantity balance quantity shall be procured from next lowest bidders( L-2) on L-1 rate on counter offer basis

- 5 **Extension Order:** The CSPTCL reserves the right to place extension order for supply of 50% additional quantity of tender items/material with associated accessories within six months from date of order and accordingly offered prices should be taken into account for these requirements.
6. **Price reduction clause:-** In case a fresh tender is issued for the same item before completion of supply against extension order and lower rates are received in the fresh tender .The lower rates received in the fresh tender shall be applicable to the quantity of extension order balance to be supplied also.
7. The bidders are requested to go through our Technical requirement carefully and it may be noted that furnishing of all information as required in various schedules enclosed is a must. In case any of the schedule, duly filled in, is not found furnished as required in the Schedules /Annexure the tender will be treated as incomplete, and will be liable for rejection without any correspondence by the CSPTCL.
- 8 **Offers:-**The offer for material/materials are required to be submitted in Duplicate in separate sealed envelopes for which following details may be noted: -

#### 8.1 **PART-I Earnest money deposit:**

Please note that techno commercial bid of the tender will not be opened at the time of tender opening if earnest money is not deposited in the form of demand draft as described in **clause 3 of annexure-I** unless the bidder is exempted from submission of EMD. The exemption from submission of EMD shall be given in the following cases:

- (i) SSI units of Chhattisgarh state permanently registered with DIC. The registration should be permanent & should be specifically for the items quoted in the tender & valid on the date of opening of tender.



- (ii) Small scale units registered with NSIC: - In case of small scale units permanently registered with NSIC, their registration certificates should be valid for the item under tender on due date of opening of Techno-commercial bid.
- (iii) Fully owned State Govt /Central Govt. units, if 100% shares are held by the state Govt. concerned for which documentary evidence must be furnished with offer.
- (iv) Self attested copy of the NSIC/ SSI registration certificate for the tendered item duly notarized by a notary should be furnished with the offer. In case of unnotarized copy, the original certificate should be produced at the time of opening for verification failing which their offer will be liable for rejection.
- v) It has been noticed that some bidders submit photocopy of certificate. This is not acceptable. The photocopy of valid NSIC certificate should be self attested (i.e copies attested by authorized signatory of the tender) failing which tender shall be liable for rejection.
- vi) The Bidders who come under any of above category must produce documentary evidence failing which offer shall be rejected.
- vii) The bidder should furnish valid GST registration number and certificate along with EMD. In absence of GST registration the offer shall not be accepted.

In case the bidder withdraws his offer during the validity period or after placement of order, the Earnest Money shall be forfeited. EMD of unsuccessful bidders shall be returned on placement of order. EMD of bidder on whom order is placed shall be returned on acceptance of security deposit. No interest shall be paid on the EMD amount.

## **8.2 PART-II Techno commercial Bid:**

### **8.2.1 PART-II (A) - Technical bid:**

In this part of bid, bidder will have to furnish confirmation in regard to all our technical requirements. The bid should clearly describe various technical particulars, as per details given in this specification. Also along with above information all details required in various schedules should be furnished so that the purchaser may be able to examine whether the offer submitted is technically acceptable or not. All relevant technical schedules viz. Guaranteed Technical Particulars, technical deviation etc shall be submitted with the bid.

**The bidder shall have to submit pre-contract integrity pact in the format enclosed as Annexure-I on non-judicial stamp paper worth Rs. 300/- duly signed by the bidder along with the Techno-Commercial bid.**

### **8.2.2 Completeness of equipment and bought out items: -**

The bidder must furnish the following information's along with technical bid.

- i) The responsibility for obtaining timely supplies of bought out items will rest on the bidder and only on this basis, delivery period will be offered in the tender.
- ii) It may be noted in the case of damages / shortages due to improper packing or any other negligence, replacement shall be arranged within one month's time. If this is not done, date of delivery of such accessory will be treated as date of delivery of main equipment and full penalty should be recoverable from the bidder on total cost of the material.
- iii) For bought out items, responsibility for guarantee and obtaining immediate replacement in case any defects are noticed and in case defective supply of any item is reported will rest on the bidder
- iv) In case for attending to defect in any equipment or inspection / replacement of the equipment, which may be bought out item for the bidder; services of engineer of original manufacturer is required, the same will be organized on immediate basis by the bidder at his cost.

8.2.3 It would be obligatory on the part of Bidder to enclose a schedule of Technical deviation in Schedule-III in case there are any deviations from our technical requirement. **Even if no deviations are involved, a separate schedule of deviation for technical particulars should be enclosed wherein a certificate may be recorded that there are no deviations from all our technical requirements.** In the event of non-compliance of this instruction, it may be noted that the CSPTCL reserves the right to reject all such offers without assigning any reason or without making any correspondence for obtaining any clarification.

8.2.4 **PART-II(B)- Commercial Bid:**

This bid should clearly spell confirmation in regard to various commercial terms and conditions for supply. Basis of price, acceptance of various important terms and conditions for supply and questionnaire for commercial terms and conditions for supply duly filled in will form part of commercial bid. The bidder, therefore should furnish all information's clearly. All commercial schedules viz. commercial terms & conditions, commercial deviations, bidders experience, details plan of manufacturing & testing shall be furnished with this bid.

It may please be noted that it is obligatory on the part of tenderer to comply with all our commercial terms and conditions. In particular, specific confirmation towards acceptance of following commercial terms and conditions should be furnished in the tender.

8.3.1 **Prices and Goods & Service Tax etc:** The prices offered should be in Indian Rupees. The offered rates should be valid for 180 days from due date of tender. In case of extension in due date of opening, the validity shall be counted from the extended due date on which TC bid has been opened. The prices offered should be **FIRM**.

The prices should be quoted in the proforma given in schedule-I indicating unit ex-works price inclusive of packing & forwarding charges. Freight charges & applicable GST charges should be quoted separately in the relevant columns. The freight shall be on FIRM basis. It may please be noted that only statutory variations due to Govt. Regulation in the rate of GST & other taxes/levies shall be permitted by CSPTCL only within contractual delivery schedule. In case supplies against the contract are effected late i.e. beyond contractual delivery period and rate of

GST undergoes upward revision the payment will continue to be made only on the basis of rates prevailing during the contractual delivery period. However, in case the rate of statutory levies undergoes downwards revision then the delayed supplies beyond contractual delivery period will attract reduced rate of levies.

**8.3.3 Terms of payment:** 100% payment along with all taxes and duties shall be made on production of necessary documents including submission of bills along with material receipt certificate (MRC) from our consignee normally within 30 days time from the date of receipt of material by consignee.

The supplier should submit original Material Receipt Certificate issued by the Consignee along with copies of bill and other necessary documents to the Manager (Bills) O/o ED (Finance), CSPTCL, Raipur for arranging payment.

**8.3.4 Delivery Period:-** The 100% quantity of the order materials should be delivered within 02 months from date of order. However if required the delivery may be advanced / deferred by CSPTCL.

The time and date of delivery of the stores stipulated in the order shall be deemed to be the essence of the contract. In case of delay in execution of the order, the CSPTCL shall either:-

- (i) Recover from the supplier as agreed Penalty /liquidated damages at the rate mentioned in "Penalty" clause.
- (ii) Purchase elsewhere on account and at the risk of the supplier, the stores not delivered or other of similar description or;
- (iii) Cancel the contract

**8.3.5 . Security Deposit:-** The supplier has to submit the security deposit in form of Demand Draft / Bank Guarantee for value of order as indicated below to cover performance guarantee period for supply of equipments covered in this specification.

- (i) All the outside state units shall be required to pay security deposit @10% of ordered value.
- (ii) The SSI units of CG having annual business above Rs.50.00 Lacs shall be required to pay Security deposit @7.5% of the value of order subjected to maximum Rs. 10.00 lacs (Rs. Ten lac only)
- (iii) In case of SSI units of CG whose annual business is up to Rs.50.00 Lacs, they will be required to pay Security deposit @ 5% of the value of order subject to maximum of Rs. 20,000/- (Rupee Twenty thousand only).

In support of annual business of SSI units of CG , the certificate of chartered Accountant duly notarized should be furnished. **The bank guarantee shall be submitted within 30 days from the date of order and shall be kept valid for guarantee period exceeding claim period of 6 months.** The bank guarantee shall be submitted on stamp paper worth Rs.250/- or as per the prevailing legal requirements/ any other amount as per the C.G. State Stamp Duty Act and shall be from a Nationalized/ Scheduled Bank in the prescribed form of CSPTCL. No interest shall be paid by CSPTCL on the security deposit. In case of non-fulfillment of contractual obligations by the supplier the security deposit shall be forfeited.

**8.3.6 Transit Insurance risk:**

- a) Responsibility regarding covering of risk, during transit of material shall entirely be on the supplier. The CSPTCL, shall in any case, not bear the transit risk/transit insurance charges.

- b) Transit damages/ shortages/ losses shall be reported by the consignees within 30 days from the receipt of the consignments. Such damages/shortages/losses shall be repaired/replaced by the suppliers, free of cost within one month from the date of intimation by the consignee without awaiting for the settlement from carrier or insurance company etc. If the supplier fails to do so the consignee(s) shall be free to get the repair work done from other sources and they shall be free to recover the cost of such material/ expenses of repairs either from the supplier/balance bills or from the security deposit as deemed fit.
- c) While the necessary assistance shall be rendered by the consignee in lodging and processing the claims with carriers and the supplier's insurance underwriters, the responsibility shall rest with the supplier to immediately make good the shortages/ losses/ damages, without extra cost and without waiting for the settlement of the claim.
- d) Replacement of goods lost/broken or damaged including loss to fire:-  
Notwithstanding anything herein contained, the supplier shall undertake responsibility for the safe arrival of the material in good condition and without any loss or damage at the final destination and until the same is actually delivered to / received by the CSPTCL at its stores or other places of final destination. For this purpose, material carried by Railway or Road transport or other carriers shall be deemed to be so carried at the risk of the suppliers. In the case of transport damages/shortages, the payment shall be made only for the quantity received in good and working condition and consignee shall lodge claim with the supplier/carrier with necessary documents of the same with carriers at supplier's end.

**8.3.7 Integrity Pact:** As per the circular NO. 799 dtd. 10.07.2013 issued by Chief Secretary, Govt. of CG; proforma for integrity pact has been incorporated in the tender as a schedule-XI and all the bidders have been asked to submit duly filled integrity pact along with the tender.

**8.3.8 Guarantee Period:-** Material offered covered under the tender shall be guaranteed for performance and quality for a period of 30 months from the date of supply in Store. In case any defect in the equipment / material is found within guarantee period, the same will be replaced / repaired by you on free of cost basis. The replacement / repairing will have to be organized by you expeditiously and preferably within one month's time. If for the purpose of replacement / repairs, the equipment / material is required to be dispatched to your works, all charges towards transportation / insurance / packing / forwarding will have to be paid by you for to and fro dispatches. In this connection, please note that the following additional conditions will also be applicable in case any damages / defects are noticed in the equipments or its accessories supplied by you.

**Penalty:**

The time for and the date of delivery of the material stipulated in the order shall be deemed the essence of the contract. In case of delay in execution or non-execution of the order the CSPTCL at its option shall recover from the supplier/ contractor as agreed towards liquidated damages a sum of ½% of the total price of any stores not delivered per week or part thereof up to a maximum of 10%. For this purpose date of receipt of offer for inspection of material in the O/o Chief Engineer (S&P) shall be considered as the date of delivery subject to condition that offer has been made 15 days in advance of terminal date of scheduled delivery & material is delivered at stores within 21 days of clearance. Please note that in case material is not received within 21 days from date of issue of Dispatch

instructions even though the delivery period exists penalty shall be imposed on delay of dispatch. The inspection offer, apart from postal/courier service shall be invariably Faxed/E-mailed to the CE (S&P) so that ambiguity does not arise for date of offer. In case the inspection offer is not received in the O/O CE(S&P) through Fax/Email the date of receipt of offer letter shall be taken as date of offer for inspection.

### 8.3.9 Deviations:

It would be obligatory on the part of the tenderer to enclose a separate schedule of deviation, if there are any deviations from our commercial terms / conditions. Even if no deviations are involved, a separate schedule of deviation for commercial conditions should be enclosed wherein a certificate may be recorded that there are no deviations from all our commercial conditions. All tenders, wherein these conditions are not complied with, may run the risk of rejection without any correspondence from our side.

### 8.3.10 Unsatisfactory performance:

The bidder who has supplied material earlier in CSPTCL and which has been found to be defective / not rendering satisfactory service within guarantee period and has not been replaced in the stipulated period shall not be considered for opening of price bid. (The cases reported as on date of NIT shall be considered).

In addition to the above, the bidders who have supplied material to CSPTCL and if any adverse reports regarding higher rate of failure, poor performance of equipment or defective supply reported from field, the price bid of such bidders shall not be considered for opening. (The cases reported as on date of NIT shall be considered).

### 8.3.11 Part - III Price bid:-

Price bid shall include submission of details of prices as per Schedule-I. **It is not required to upload /attach scanned copy of price in soft /hard copy. Only the rates are to be filled in the item tab in e-bid in SAP SRM System (online e- bidding portal).** The prices should be quoted through SAP SRM system should indicate unit ex-works price inclusive of packing & forwarding charges, GST, freight charges & any other charges should be quoted separately. In case of any discrepancy is found suitable loading on prices will be considered for which responsibility will rest on the Bidder.

## 9. Submission of offers:

The Bidders should submit their bids in four envelopes as under:-

- (i) **Envelope - I :-** (To contain Part-I of the tender document)  
This envelope should contain a covering letter with earnest money or earnest money exemption certificate as detailed in clause (4.1). The cover of the envelope should be suitably super scribed with the details of earnest money and tender number. The envelope should be sealed properly. **The bidder should furnish valid GST registration number & certificate alongwith EMD. In absence of GST registration the offer shall not be accepted.**

In case the tender document is downloaded from CSPTCL's Website the required cost of tender document in the form of MICR DD drawn in favour of Manager (RAO-HQ), CSPTCL, Raipur should also be kept inside this Envelope.

**Please note that the tender shall be liable for rejection if**

- i) EMD as per tender specification / proof in support of exemption of EMD as per clause 4.1 is not found inside the envelope. **The GST registration certificate is not furnished and**
- ii) In case DD towards tender cost is not found inside this envelope in case tender document is downloaded from website.
- (ii) **Envelope - II** (To contain Part-II of tender document)  
This envelope should contain the Technical Bid and Commercial bid complete in all respects, in duplicate & Integrity pact as per proforma in Schedule-X
- (iii) **Envelope - III:-** This large envelope should contain all the above two envelopes. A certificate in the following format should be recorded on main envelope itself.

**TENDER SPECIFICATION No. TR-21/S&P/23 DUE FOR OPENING ON  
27.10.2021 FOR SUPPLY OF DISC INSULATOR**

To,

The Executive Director (Stores & Purchase)  
C.S.Power Transmission Co. Ltd.,  
Dangania, RAIPUR (C.G.) 492 013

IT IS CERTIFIED THAT WE AGREE TO THE FOLLOWING CLAUSES OF TENDER SPECIFICATION:-

1	PAYMENT TERMS	AGREED
2	SECURITY DEPOSIT	AGREED
3	PENALTY	AGREED
4	PERFORMANCE GUARANTEE	AGREED
5	TECHNICAL SPECIFICATION	IT IS CERTIFIED THAT THE MATERIAL OFFERED BY US IS STRICTLY AS PER TECHNICAL SPECIFICATION AS STIPULATED IN THIS TENDER AND IN CASE ANY DEVIATION IS OBSERVED LATER ON, WE SHALL BE SOLELY RESPONSIBLE AND THAT OUR TENDER SHALL BE LIABLE FOR REJECTION.

*Sign & Seal of tenderer*

**THIS ENVELOPE (Envelop-III) CONTAINS TWO ENVELOPES FOR:-**

- a. Envelop-I : Earnest Money Deposit and cost of tender document if tender document is downloaded) **along with GST registration certificate**
2. Envelop-II : Technical bid & Commercial Bid **along with integrity pact and a copy of un priced / unfilled price schedule.**
3. Envelop-III : . Envelop-I & Envelop-II.

Tenders being submitted must be signed by a person holding a power of attorney authorizing him to do so. **The self attested copy** of power of attorney should be furnished. Tenders submitted on behalf of company registered under Indian Companies Act shall be signed by persons duly authorized to submit the tender on behalf of the company and shall be accompanied by **self attested copy** of resolution / abstract of Article of Association/ special or general power of attorney.

8. **Opening of tenders:**

**Part - I** i.e. Earnest Money shall be first opened on the due date & time.

**Part-II** i.e. “Technical & Commercial Bid” will be opened thereafter on the same day in respect of the bidders whose EMD are found to be as per Tender specification.

These bids will be scrutinized and then we will take decision regarding opening of **Part - III** price bid in respect of successful bidders. For the purpose of opening of price bid, a notice of not less than 7 days shall be given to the bidders so that they may depute their representative for attending price bid opening. It may be mentioned that period of 7 days will be counted from the date of issue of fax intimation by us. Such intimation shall be given within a reasonable period from the date of opening of commercial and technical bids, and after its scrutiny. Only authorized representatives possessing necessary authority letter from the bidders shall be allowed to participate in the tender.

11. **Compliance with other conditions :-**

Although all other conditions have clearly been spelt out in the tender document, it is once again brought to the notice of tenderer that they should go through our tender document carefully and comply all other conditions also, like furnishing of list of past supplies, performance certificate, profit and loss account, balance sheet for last three years etc., furnishing of drawing and write up for the manufacturing process. In the nut shell, the offer at the time of submission of Technical and Commercial bid it should be completed in all respects. It should not be expected that in case of lack of any information, the CSPTCL will make any correspondence with the bidder. The documents and details as called for in the tender must be submitted without making any reference to submission of such certificate against past order, tender or past experience of supplies with the CSPTCL etc. All tenders wherein these conditions are not complied with, may run the risk of rejection without correspondence from our side.

12. **Change of quantity:**

The CSPTCL reserves the right to vary the quantities of any or all the items as specified in the technical specifications /schedules as may be necessary based on requirement. No correspondence shall be entered into regarding quantity variation.

13. **Inspection:**

- a) The CSPTCL shall have access at all times to the works and all other places of manufacture where the equipments are being manufactured and the supplier shall provide all facilities for unrestricted inspection of the suppliers works, raw material, manufacture of all the accessories and for conducting necessary tests as detailed herein.
- b) The successful supplier shall keep the purchaser informed in advance of the time of starting and of the progress of manufacture of equipment in various stages so that arrangements could be made for inspection.
- c) No material shall be dispatched from its point of manufacture unless the material has been satisfactorily inspected and tested by the CSPTCL’s representative and Delivery Instructions (D.I.) is issued in this regard.
- d) The acceptance of any quantity of material shall in no way relieve the successful supplier of his responsibility for meeting all the requirements of this specification and shall not prevent subsequent rejection if such material are later found to be defective.

- e) In readiness of material for inspection should be intimated to O/o the ED (S&P), CSPTCL at least 15 days in advance so that Inspector can be deputed on scheduled date. In case material is not found ready on the intimated date of readiness, the CSPTCL reserves the right to recover from the supplier the charges.
- f) **Random testing:** Inspection of material before dispatch or waiver of inspection will not relieve the supplier from his responsibility to supply the material strictly in accordance with the specification. If required, the Company shall have option to test the samples selected at random from the supplies affected and subject it to acceptance / type test as per relevant ISS/IEC and Technical specifications at any standard laboratories e.g. CPRI, ERDA etc.
- In case, the samples fail to withstand the required tests, the entire lot will be liable for rejection (i.e. unused material so supplied) and the Supplier will have to refund the amount paid including taxes and duties as well as the test charges thereof. Such quantities or rejected materials identified shall be replaced in full by the supplier at his own cost. CSPTCL will not be responsible for payment of taxes on such rejected material.
- g) **Stage inspection:-**The CSPTCL reserves the right to carryout stage inspection during manufacture. The inspection will include verification of all raw materials, quality control process etc. Bidder will have to confirm that they will render all assistance for this purpose.

14. **Fake inspection call:**

In case, the material is not offered for inspection on the date of inspection offered by the firm, due to any reason the firm shall be required to remit a sum of Rs.5,000/- or actual expenditure incurred for the visit of the inspector, whichever is more.

15. **Quality assurance plan:**

The supplier shall furnish following information along with his offer, if so desired by CSPTCL. Information shall be separately given for individual type of equipment offered.

- (a) Statements giving list of important raw materials, name of sub-suppliers for the raw material, list of standards according to which the raw material are tested, list of tests normally carried out on raw material in presence of suppliers representative, copies of test certificates.
- (b) Information and copies of test certificates as in (a) above in respect of bought out items.
- (c) List of manufacturing facilities available.
- (d) Level of automation achieved and list of areas where manual processing exists.
- (e) List of areas in manufacturing process where stage inspections are normally carried out for quality control and details of such tests and inspections.
- (f) Special features provided in the equipment/ material to make it maintenance free.
- (g) List of testing equipment available with the supplier for final testing of equipment specified and test plan limitation, if any, vis-a-vis the type/ special acceptance and routine test specified in the relevant standards. These limitation shall be very clearly brought out in schedule of deviations from specified test requirements.

16. **Test certificate:**



In case CSPTCL requires testing of material at any Govt. Standard Laboratory/ NABL accredited Laboratory, then the supplier shall arrange the same at his own cost as directed by CSPTCL.

17. **Pool rate / Cartel:**

Formation of tenderer's cartel is strictly prohibited. "Cartel" includes an association of sellers, distributors, traders or service providers who by agreement among themselves, limit, control or attempt to control the production, distribution, sale or price of or trade in goods or provision of services, Here, "agreement" includes any arrangement or understanding or action, whether or not is formal or in writing.

Quoting same rates i.e. pool rate is not acceptable. In case the same rate is found to be quoted by more than two bidders, offers of all such bidders may be out rightly rejected. However, if rates of two bidders are found to be same, quantity of orders to be placed on them will be reduced to half of the quantity a bidder is entitled to be allocated by virtue of their common rank. But, in case of multi-item tender, if rates of even two bidders for more than one item are found to be same, it will be considered as deliberate cartel and offers of both the bidders may be dealt with accordingly. Therefore, all the bidders are advised to quote their own individual and most competitive rates.

Rates received in a tender will be minutely scrutinized to find out as to whether some or all bidders have entered in to any such 'agreement'. If CSPTCL is satisfied with the conclusion that some or all the bidders have formed a cartel, offers of all such bidders shall be rejected.

18. **Amendment in specifications:**

The Company may revise or amend the specification prior to the date notified for opening of tender. Such revision/ amendment, if any, will be communicated to all the tenderers as Amendment/ Addendum to the invitation of tender and the same will be displayed in CSPTCL's website also.

19. **Bids through fax:-**

Fax offers will not be considered under any circumstances.

20. **Mistakes in bids:**

Rates should be quoted in both figures and words. In case of ambiguity between rates in figures and words, lower of the two shall be considered. Such offers can also be rejected.

21. **Lump sum based bids:**

In case prices for some items or all items are given as lump sum, instead of unit prices as required in the tender specifications, CSPTCL can summarily reject such incomplete tender.

22. **Printed terms & conditions in bids:**

Supplier's printed terms and conditions will not be considered as forming part tender under any circumstance whatsoever.

23. **Alterations/ correction in bids:**

No alternations in the tender document will be permitted.

24. **Incomplete bids:**

Tender which is incomplete or obscure is liable for rejection.

**25. Ambiguities in conditions of bids:**

In case of ambiguous or self contradictory terms/ conditions mentioned in the bid, interpretations as may be advantageous to the Company, may be taken without any reference to the tender.

**26. Disqualification of bids:**

A bid which gets opened before the due date as a result of improper or no indication has been given on the cover to indicate that it is a tender, will be disqualified. Tenderers will not be permitted to change the substance of his tender on post interpretation/ improper understanding grounds. This includes post tender price changes/ modifications etc. after opening of price bid. In such events, otherwise, that is, when a bidder does not comply, tender will be rejected.

**27. Language of bids:**

All tenders should be made either in English, or in Hindi only.

**28. Canvassing of bids:**

Tenders shall be deemed to be under consideration, after opening of tender/ bid till placement of order. During this period, the tenderers or their authorized representatives or other interested parties are advised strongly in their own interest, to refrain from contacting by any means any of the CSPTCL personnel or representative, on matters relating to under study.

29. All schedules are to be submitted by the bidder along with the tender document duly filed in and signed..

**30. TRANSPORTATION:** The bidders are required to quote transportation charges in respect of Disc insulators. Further transshipment of materials dispatched will not be allowed.

**31 Cancellation of order:**

31.1 The company may upon written notice of default, terminate contract in the circumstances detailed here under:

- (a) If in the opinion of the Company, the supplier fails to deliver the material within the time specified or during the period for which extension, has been granted by the Company.
- (b) If in the opinion of the Company, the supplier fails to comply with any of the other provisions of this contract or material is found not in accordance with prescribed specifications and or the approved samples.
- (c) If as a result of stage inspection, it is revealed that material and / or workmanship is substandard, which is likely to affect the performance of the finished product, a notice would be served by the Company to the supplier to suspend further activities and to take urgent steps towards corrective measures, failing which the entire order would be cancelled.

31.2 In the event of such termination, the CSPTCL shall exercise its discretionary power as:

- (a) To recover from the supplier the agreed liquidated damages as given in the clause No. 6.2.4 above.
- or
- (b) To purchase form elsewhere after giving due notice to the supplier on account and at the risk of the supplier such stores/ material not so delivered or others of similar description in respect of consignment not yet delivered.
- or
- (c) To cancel the contract reserving Company's right to recover damages.
- 31.3 Notwithstanding that the power under clause (36.2 a, b & c) referred to above, are in addition to the rights and remedy available to the Company under the general law of India relating to contract.
- 31.4 In the event of risk purchase of stores of similar description, the opinion of the Company shall be final. In the event of action taken under clause 36.2 (a) or (b) above, the supplier shall be liable to pay for any loss, which the Company may sustain on that account but the supplier shall not be entitled to any saving on such purchases made against the default.
- 31.5 The decision of the Company shall be final regarding the acceptability of the stores supplied by the supplier and the Company shall not be required to give any reasons in writing or otherwise at any time for the rejection of the stores/ material.
- 31.6 In the event Company does not terminate the order as provided in clause 36.1 & 36.2 above, the supplier shall continue execution of this order, in which case he shall be liable to the CSPTCL for liquidated damages for the delay as per clause 6.2.4 until supplies are accepted.
32. **Arbitration:**  
 If at any time, any question, dispute or difference, whatsoever shall arise between the Purchase and the supplier, upon or in relation to or in connection with the Contract, either party may forth with give to the other, notice in writing of the existence of such question, dispute or difference and the same shall be referred to the adjudication of two arbitrators, one to be nominated by the Purchase and the other to be nominated by the supplier or in the case of said arbitrators not agreeing, then to the adjudication of the Umpire to be appointed by the arbitrators, whose decision shall be final and binding on the parties and the provisions of the Indian Arbitration Reconciliation Act 1996, and of the rules there under and any statutory modification thereof shall be deemed to apply. The arbitrators or the Umpire, as the case may be, are bound to give a detailed speaking award assigning reasons for the findings.  
 Supplies under the contract, shall be continued by the Contractor during the arbitration proceedings, unless otherwise, directed in writing by the Purchase or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrators or of the Umpire, as the case may be is issued.
33. **Jurisdiction:** Any dispute or difference, arising under, out of or about this tender/ contract order shall be subject to exclusive jurisdiction of competent court at Raipur only from where the order has been placed and not in any other court or tribunal.

34. **Variation in quantity:**

A tolerance in the ordered quantity will be allowed to the extent of +/- 2% (plus minus 2%). This tolerance will be allowed on total ordered quantity. The MRCs shall be issued on actual receipt of quantity only.

This clause will be applicable to items which are ordered in terms of weight or length i.e. cable, conductor, transformer oil etc.

35. **Force Majeure** :-The supplier shall not liable for any liquidated damages for delay in performing in the contract for reasons of force majeure conditions such as acts of God, acts of public enmity, act of Govt. fires, floods, epidemics, quarantine restriction, strikes, freight embargo and provided that the supplier shall within ten(10) days from the beginning of such delay notifying the Company in writing the cause of delay. Power cut and non-availability of raw materials will not be considered as force majeure reason. The extension of delivery may be granted on due justification of the facts.

36. **Limitation of Liability** :- Except in cases of gross negligence or wilful misconduct,

a) The bidder and CSPTCL shall not be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the contractor to pay liquidated damages to the CSPTCL

A N D

The aggregate liability of the contractor to CSPTCL, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipments, or to any obligation of the contractor to indemnify CSPTCL with respect to patent infringement.

Executive Director (S&P)  
CSPTCL : Raipur

**SECTION – II**  
**TECHNICAL SPECIFICATION**

70 KN, 90KN & 160 KN EMS DISC INSULATOR

***SCOPE:-***

This specification of tender covers scope of manufacturing , testing at manufacturer's works, supply and delivery of 70 KN 90 KN & 160 KN EMS Disc Insulator, Ball and Socket type for transmission lines. The Technical specifications contained in this section are for the guidance of the Bidder. Any deviation from purchaser specification will be considered on their related merits or performance, efficiency, durability and overall economy consistent with the purchaser's requirements hereinafter stipulated. Such deviations shall be clearly entered by the Bidder in Schedules enclosed herein after.

**TECHNICAL SPECIFICATIONS OF INSULATORS**

**CONTENTS**

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## TECHNICAL SPECIFICATIONS

### 1.0 Technical Description of Disc Insulators

#### 1.1 Details of Disc Insulators

1.1.1 The Insulator strings shall consist of Standard discs for a three phase, 50 Hz, effectively earthed 132/220/400 kV transmission system in a moderately polluted atmosphere. The discs shall be cap and pin, ball and socket type.

1.1.2 Supplier may quote for disc insulator, made of electro-porcelain i.e. porcelain specifically meant for electrical insulation .

1.1.3 The size of disc insulator, minimum creepage distance, the number to be used in different type of strings, their electromechanical strength and mechanical strength of insulator string along with hardware fittings shall be as follows :

Sl	Type of string	Size of disc insulators Disc diameter (mm)x Unit spacing (mm)	Minimum creep age distance of each disc (mm)	No. of disc	Electro-mechanical strength of insulator disc(KN)	Mechanical strength of insulator string along with Hardware fittings (KN)	Operation line voltage (KV)
1	Single 'I' suspension	255x145	320	1x9 / 1x13	70	70	132/220
2	Double 'I' suspension	255x145	320	2x9/ 2x13	70	2x70	132/220
3	Single /Double Tension	255x145	320	1x10/ 2x10	90	90/2x90	132
4	Single 'I' /Double Tension	280x170	330	1x14/ 2x14	160	160	220
5	Single 'I' /Double Tension	280x170	330	1x24/2 x24	160	160/2x160	400

#### 1.2 Pin and Cap

1.2.1 Pin and Cap shall be designed to transmit the mechanical stresses to the shell by compression and develop uniform mechanical strength in the insulator. The cap shall be circular with the inner and outer surfaces concentric, of such design that it will not yield or distort under load conditions.

1.2.2 The pin ball shall move freely in the cap socket but without danger of accidental uncoupling during erection or in position. The design of the disc should be such that stresses due to expansion or contraction in any part of the insulator shall not lead to deterioration.

#### 1.3 Security clip

1.3.1 Security clip for use with ball and socket coupling shall be of R-shaped hump type which shall provide positive locking of the coupling as per IS:2486-(Part-III)/IEC : 372. The legs of the security clips shall be spread after installation to prevent complete withdrawal from the socket. The locking device should be resilient, corrosion resistant and of suitable mechanical strength. There shall be no risk of the locking device being displaced

accidentally or being rotated when in position. Under no circumstances shall locking device allow separation of insulator units or fittings.

- 1.3.2 The hole for the security clip shall be countersunk and the clip shall be of such design that the eye of clip may be engaged by a hot line clip puller to provide for disengagement under energized conditions. The force required to pull the security clip into its unlocked position shall not be less than 50N (5 kg) or more than 500N (50 kg).

1.4 **Ball and Socket Designation**

The dimensions of the balls and sockets shall be of 16mm designation for 70 KN & 90 KN disc insulators in accordance with the standard dimensions stated in IS:2486(Part II)/IEC:120.

1.5 **Dimensional Tolerance of Insulator Disc (Standard)**

It shall be ensured that the dimensions of the disc insulators are within the limits specified below :

a) Diameter of Disc (mm)

Type	Diameter of Disc (mm)	Max Diameter of Disc (mm)	Min. Diameter of Disc (mm)
70 KN Disc	255	266	244
90 KN Disc	255	266	244
160 KN Disc	280	293	267

b) Ball to ball spacing between discs

Type	Diameter of Disc (mm)	Max Diameter of Disc (mm)	Min. Diameter of Disc (mm)
70 KN Disc	145	149	141
90 KN Disc	145	149	141
160 KN Disc	170	175	165

1.6 **Interchangeability**

The disc insulators inclusive of the ball and socket fittings shall be of standard design suitable for use with the hardware fittings of any make conforming to relevant Indian/International Standards.

1.7 **Corona And RI Performance**

All surfaces must be clean, smooth, without cuts, abrasions or projections. No part shall be subjected to excessive localized pressure. The metal parts shall be so designed and manufactured that it shall not generate any Radio Interference beyond specified limit and not produce any noise generating corona under the operating conditions.

1.8 **Maintenance**

- 1.8.1 The disc insulators offered shall be suitable for employment of hot line maintenance techniques so that the usual hot line operations can be carried out with ease, speed and safety.

1.9 **Materials**

**1.9.1 Porcelain**

The porcelain used in the manufacture of shells shall be sound, free from defects thoroughly vitrified and smoothly glazed.

- 1.9.2        **Glaze**  
The finished porcelain shall be glazed in brown colour. The glaze shall cover all exposed parts of the insulator and shall have a good lusture, smooth surface and good performance under the extreme weather conditions of a tropical climate. It shall not crack or chip by ageing under the normal service conditions. The glaze shall have the same coefficient of expansion as of the porcelain body throughout the working temperature range.
- 1.9.4        **Cement**  
Cement used in the manufacture of the insulator shall not cause fracture by expansion or loosening by contraction. The cement shall not give rise to chemical reaction with metal fittings and its thickness shall be as small and uniform as possible. Proper care shall be taken to correctly centre and locate individual parts during cementing.
- 1.9.5        **Pins and Caps**  
Pins and Caps shall be made of drop forged steel and malleable cast iron, duly hot dip galvanized and shall not be made by jointing, welding, shrink fitting or any other process from more than one piece of material.
- 1.9.6        **Security Clips**  
Security clips shall be made of good quality stainless steel or phosphor bronze as per IS:1385. 2.5% extra Security clip shall be provided.
- 1.10        **Workmanship**
- 1.10.1       All the material shall be of the latest design and conform to the best modern practices adopted in the extra high voltage field. Suppliers shall offer only such insulators as are guaranteed by him to be satisfactory and suitable for 132 / 220 / 400 kV Transmission lines and will give continued good service.
- 1.10.2       The design, manufacturing process and material control at various stages shall be such as to give maximum working load, highest mobility, best resistance to corrosion, good finish and elimination of sharp edges and corners to limit corona and radio interference.
- 1.10.3       The design of the insulators shall be such that stresses due to expansion and contraction in any part of the insulator shall not lead to deterioration.
- 1.10.4       Metal caps shall be free from cracks, seams, shrinks, air holes, burrs and rough edges. All surfaces of the metal parts shall be perfectly smooth with no projecting points or irregularities which may cause corona. All load bearing surfaces shall be smooth and uniform so as to distribute the loading stresses uniformly.
- 1.10.5       All ferrous parts shall be hot dip galvanised to give a minimum average coating of Zinc equivalent to 600 gm/sq.m. and shall be in accordance with the requirement of IS:2629 and shall satisfy the tests mentioned in IS:2633. The zinc used for galvanising shall be of Grade Zn 99.95 as per IS:209. The zinc coating shall be uniform, adherent, smooth, reasonably bright, continuous and free from imperfections such as flux, ash, rust stains, bulky white deposits and blisters.
- 1.10.6       Before ball fittings are galvanised, all die flashing on the shank surface of the ball shall be carefully removed without reducing the dimensions below the design requirements.
- 1.10.7       The design of the insulators shall be such that the shell shall not engage directly with hard metal. The design shall also be such that when units are coupled together there is no contact between the shell of one unit and metal of the next adjacent unit. The design of the shell ribs shall be such that the security clip of the insulator can be engaged and disengaged easily with hot stick without damaging the shell ribs.
- 1.10.8       Insulator units after assembly shall be concentric and co-axial within limits as permitted by the relevant Indian Standards.



## 2.0 **Equipment Marking**

2.1 Each insulator disc unit shall be legibly and indelibly marked with the trade mark of the **manufacturer, name of CSPTCL and month & year of manufacture**. The guaranteed combined mechanical and electrical strength shall be indicated in kilo Newton followed by the **word 'kN'** to facilitate easy identification and to ensure proper use.

2.2 For porcelain insulator, the marking shall be on porcelain. The marking shall be printed, not impressed and shall be applied before firing. For toughened glass insulators the marking shall be on the metal parts.

2.3 One 10 mm thick ring or 20 mm thick spot of suitable quality of paint shall be marked on the cap of each insulator porcelain disc of particular strength for easy identification of the type of insulator. The paint shall not have any deteriorating effect on the insulator performance. Following codes shall be used as identification mark :

For 70 kN disc/long rod unit	:	Blue
For 90 kN disc/long rod unit	:	Red
For 160 KN disc/long rod unit	:	Green

## 3.0 **Drawings (On placement of order)**

3.1 On placement of order, the Supplier shall submit full dimensioned insulator drawings containing all the details to Owner for approval. The drawing shall include but not limited to the following information:

- (a) Shell diameter and ball to ball spacing with manufacturing tolerances
- (b) Minimum Creepage distance with positive tolerance
- (c) Protected creepage distance
- (d) Eccentricity of the disc
  - (i) Axial run out
  - (ii) Radial run out
- (e) Unit mechanical and electrical characteristics
- (f) Size and weight of ball and socket parts
- (g) Weight of unit insulator disc/long rod units
- (h) Materials
- (i) Identification mark
- (j) Manufacturer's catalogue number

## 4.0 **Standard Technical Particulars**

4.1 The guaranteed technical particulars to be adhered by the contractor/ manufacturer are furnished in below in clause 4.2.1

4.2 **Standard Technical Particulars for insulator & insulator strings for 132 /220 transmission line**

## 4.2.1 Standard Technical Particulars for Standard Disc Insulators

Sl.	Description	Unit	Standard Technical Particular value		
			70 KN Disc Insulator	90 KN Disc Insulator	160 KN Disc Insulator
1.0	<b>General</b>				
	Type of Insulator (Pin & Cap)		Ball & Socket	Ball & Socket	Ball & Socket
a)	Size and Designation of pin ball shank	mm	16 as per IS 2486/ IEC 120	16 as per IS 2486/ IEC 120	20 as per IS 2486/ IEC 120
2.0	<b>Dimensions</b>				
a)	Diameter of disc	mm	255	255	280
b)	Tolerance on Diameter	± mm	11	11	13
c)	Ball to ball spacing between Disc	mm	145	145	170
d)	Tolerance on spacing	± mm	4	4	5
e)	Minimum nominal creepage distance of single disc	mm	320	320	330
3.0	<b>Materials</b>				
a)	Colour of glaze of finished porcelain insulator		Brown	Brown	Brown
b)	Mechanical values .				
i.	Electromechanical Strength of disc in KN	KN	70	90	160
ii.	Materials used for ball pins.		Forged steel	Forged steel	Forged steel
iii.	Grade of material		Class 3A or 4 of IS 2004	Class 3A or 4 of IS 2004	Class 3A or 4 of IS 2004
c)	Ultimate tensile stress Kg. Per mm <sup>2</sup> Ball pin & Cap material	Kg. Per mm <sup>2</sup>	63	63	<b>71</b>
d)	Yield stress Kg. Per mm <sup>2</sup> Ball pin & Cap material	Kg. Per mm <sup>2</sup>	32.5	32.5	<b>47</b>
e)	Hardness test value BHN Ball pin & Cap material	BHN	175	175	<b>201-255</b>
f)	Percentage elongation Ball pin & Cap material	%	(min. 15%)	(min. 15%)	<b>(min. 14%)</b>
g)	Whether machine forced		Yes	Yes	<b>Yes</b>
h)	Normalising particulars (Temp in C )		30-880	30-880	<b>30-880</b>
5.0	<b>Minimum electrical values</b>				
a)	Power frequency flashover voltage of (dry)	kV (rms)	75	75	80
b)	Power frequency flashover voltage of (Wet)	kV (rms)	45	45	50
c)	Impulse flashover test voltage 1.2 x 50 µs positive (Dry)	kV (peak)	115	115	130
d)	Impulse flashover test voltage 1.2 x 50 µs negative (Dry)	kV (peak)	115	115	130
e)	Power frequency withstand voltage of (dry)	kV (rms)	70	70	75
f)	Power frequency withstand voltage of (Wet)	kV (rms)	40	40	45
g)	Impulse withstand test voltage 1.2 x 50 µs positive (Dry)	kV (peak)	110	110	125

Sl.	Description	Unit	Standard Technical Particular value		
			70 KN Disc Insulator	90 KN Disc Insulator	160 KN Disc Insulator
h)	Impulse withstand test voltage 1.2 x 50 $\mu$ s negative (Dry)	kV (peak)	110	110	125
i)	Steepness of impulse voltage (steep wave front test)	kV/us	2500	2500	2500
6.0	Power frequency puncture voltage	kV (rms)	110	110	125.0
7.0	Minimum Visible discharge voltage of single disc (dry)	kV (rms)	9	9	18.0
8.0	Maximum RIV at 1 MHz and 10kV AC (rms) voltage of single disc	Micro -volts	50.0	50.0	50.0
9.0	Eccentricity of disc				
a)	Max. radial run out	mm	7.65	7.65	8.4
b)	Max. axial run out	mm	10.2	10.2	11.2
10.0	<b>Galvanising</b>				
a)	Minimum mass of zinc coating	Gm/ sq.m.	600	600	600
b)	Minimum no. of one minute dips in the standard preece test	Nos.	6 dips	6 dips	6 dips
c)	Minimum purity of zinc used for galvanising	%	99.95	99.95	99.95
11.0	Security clip/ locking device a) Type and dimension  b) Material  c) Standard to which security clip confirmed		R TYPE and dimensions as per 2486 Part-IV  Stainless steel  Guaranteed as per IS 2486 (Part-IV) IEC no. 372I	R TYPE and dimensions as per 2486 Part-IV  Stainless steel  Guaranteed as per IS 2486 (Part-IV)	R TYPE and dimensions as per 2486 Part-IV  Stainless steel  Guaranteed as per IS 2486 (Part-IV) IEC no.
12	Standard specification to which insulator will confirm		IS- 731 & IS- 3188	IS- 731 & IS- 3188	IS- 731 & IS- 3188

4.2.2

### Standard Technical Particulars of insulator strings with Standard Disc Insulators along with hardware fittings

Sl. No	Description	Unit	Standard Technical Particular value					
			Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string
			1 x 9/ 2x9	1x10/ 2x10	1x13/ 2x13	1 x 14/ 2 x 14	1 x 23/ 2 x 23	1 x 24/ 2 x 24
			132KV	132KV	220 KV	220KV	400KV	400KV
1.0	Power frequency withstand volt-age of string with arcing horns, corona control rings/grading rings under wet condition	kV (rms)	275	285	460	480	680	680
2.0	Switching withstand voltage (dry)							
a)	Positive	kV (Peak)	-	-	-	-	1050	1050
b)	Negative	kV (peak)	-	-	-	-	1050	1050
3.0	Impulse withstand voltage (dry)							
a)	Positive	kV (Peak)	650	650	1050	1050	1550	1550
b)	Negative	kV (peak)	650	650	1050	1050	1550	1550
4.0	Impulse flashover voltage (dry)							
a)	Positive	kV (Peak)	680	680	1100	1100	1615	1615
b)	Negative	kV (Peak)	680	680	1100	1100	1615	1615
5.0	Minimum corona extinction voltage under dry condition	kV (rms)	105	105	154	154	320	320
6.0	RIV at 1 MHZ when string is energised at 305 kV (rms) under dry condition	Micro volts	1000 (max.)	1000 (max.)	1000 (max.)	1000 (max.)	1000 (max.)	1000 (max.)
7.0	Mechanical strength of complete insulator string alongwith hardware fittings	kN	70/2*70	90/2*90	70/2*70	160/2*160	120/2*120	160/2*160
8.0	Maximum voltage distribution across any disc of line to earth voltage	%	21	21	13	14	9	10

## 5.0 **Tests and Standards**

**Tests on Disc insulator shall be conducted as per latest relevant standard & tender specification.**

### 5.1 **TYPE TEST**

These tests shall be those tests which are to be carried out to prove the design process of manufacture and general specification. This test shall be carried out on samples prior to commencement of commercial production. The following type tests shall be conducted on number of individual standard disc insulators or complete strings:

#### 5.1.1 **On unit disc Insulators**

Sr. No	Description of test	Standard
1	Visual examination	As per IS:731
2	Verification of dimensions	As per IS:3188/ IS:731
3	Thermal Mechanical Performance test	As per IES 60383/60575
4	Wet/Dry Power frequency voltage withstand/flashover test	As per IS:731 /IEC60383
5	Impulse voltage withstand/flashover test	As per IS:731/IEC60383
6	Electro-mechanical failing load test	As per IS:731
7	Visible Discharge test (dry)	As per IS:731
8	Temperature cycle test	As per IS:731
9	Mechanical performance test	As per IS:731
10	Radio interference test (RIV test Dry)	As per IS:8263/IEC:60437
11	Puncture test	As per IS:731
12	Porosity test	As per IS:731
13	Galvanizing test	As per IS:731
14	Metallurgical test	As per IS:2108
15	Steep Wave front test	As per Annexure-A
16	Impact test	As per Annexure
17	Residual strength Test	As per Annexure

#### 5.1.2 **On the complete Disc Insulator String with Hardware Fittings**

a)	Wet Power frequency voltage withstand test with corona control rings/grading ring and arcing horns .	IS/IEC
b)	Impulse voltage withstand/flashover test	IS/IEC
c)	Voltage distribution test	:As per Annexure-A
e)	Corona and RIV test under dry condition	:As per Annexure-A
f)	Mechanical Strength test	:As per Annexure-A
g)	Vibration test ( This tests may be done in the event of order at supplier's cost)	:As per Annexure-A

5.1.3 Type tests specified under Clause 5.1.1 and 5.1.2 of tendered item materials as per relevant standards i.e. ISS/ IEC issued by Govt. standard test laboratory/ NABL accredited laboratory shall be submitted along with the tender. The type test certificate of tendered item materials shall not be more than 5 years old on the date of issue of NIT.

5.2 **TEST DURING MANUFACTURE:**

On all components as applicable.

- a) Chemical analysis of zinc used for galvanizing. :
- b) Chemical analysis, mechanical and metallographic test and magnetic particle inspection for malleable castings.
- c) Chemical analysis, hardness test and magnetic particle inspection for forgings.: As per this specification.
- d) Hydraulic Internal Pressure tests on shell. :
- e) Crack detection test for metal parts

5.3 **ACCEPTANCE TEST:-**Before dispatch of material ,all acceptance tests are to be performed in presence of the representative of CSPTCL at the factory premises of manufacturer, in each selected lot of Disc Insulator.

The test samples shall be subjected to the following acceptance tests in the order indicated below:

- a) Visual examination
- b) Verification of dimensions
- c) Temperature cycle test
- d) Mechanical performance test
- e) Electro-mechanical failing load test
- f) Puncture test
- g) Porosity test
- h) Galvanizing test
- i) Test on locking device for ball and socket coupling as per IS 2486
- j) Metallurgical test for ball & socket (Grain size, inclusion rating, Chemical analysis, microstructure) as per ISS 2108
- k) IR Measurement
- l) Electro-mechanical strength test
- m) Impact Test
- n) Residual Test
- o) Thermal mechanical performance test

5.4 **ROUTINE TEST:-**

- a) Visual inspection
- b) Mechanical routine test
- c) Electrical routine test

5.5 **Packing and Marking**

The insulator shall be supplied in non-returnable strong wooden crates The gross weight of the crates along with the material shall not normally exceed 50 Kg to avoid handling problem. The packing shall be of sufficient strength to withstand rough handling during transit, storage at site and subsequent handling in the field.

Suitable cushioning, protective padding, or dunnage or spacers shall be provided to prevent damage or deformation during transit and handling.

All packing cases shall be marked legibly and correctly so as to ensure safe arrival at their.

Each crate drum shall have the following information stenciled on it in indelible ink along with other essential data:

- a) Contract/Award letter / order number
- b) Name and address of consignee
- c) Manufacturer's name and address

- d) Crate Number
- e) Size of insulator
- f) E&M strength of Insulator
- g) Gross weight of crate with insulator
- h) Weight of empty crate with lagging

## 5.6 Standards

The insulator strings and its components shall conform to the following Indian/ International Standards which shall mean latest revision, with amendments/changes adopted and published, unless specifically stated otherwise in the Specification.

Sl. No.	Indian Standard	Title	International Standard
1.	IS:209-1992	Specification for zinc	BS:3436
2.	IS:406-1991	Method of Chemical Analysis of Slab Zinc	BS:3436
3.	IS:731-1991	Porcelain insulators for overhead Power lines with a nominal voltage greater than 1000 V	BS:137- (I&II) IEC:60383
4.	IS:2071 Part (I) – 1993 (Part(II)- 1991 Part(III)- 1991	Methods of High Voltage Testing	IEC:60060-1
5.	IS:2486 Part- I-1993 Part- II-1989 Part-III-1991	Specification for Insulator fittings for Overhead Power Lines with a nominal voltage greater than 1000V General Requirements and Tests Dimensional Requirements Locking Devices	BS:3288 IEC:60120 IEC:60372
6.	IS:2629-1990	Recommended Practice for Hot, Dip Galvanisation for iron and steel	ISO-1461 (E)
7.	IS:2633-1992	Testing of Uniformity of Coating of zinc coated articles	
8.	IS:3188-1988	Dimensions for Disc Insulators	IEC:60305
9.	IS:6745-1990	Determination of Weight of Zinc Coating on Zinc coated iron and steel articles	BS:433-1969 ISO:1460-1973
10.	IS:8263-1990	Methods of RI Test of HV insulators	IEC:60437 NEMA Publication No.07/1964/ CISPR
11.	IS:8269-1990	Methods for Switching Impulse test on HV insulators	IEC:60506
12.		Thermal Mechanical Performance test and mechanical performance test on string insulator units	IEC: 60575
13		Tests on insulators of Porcelain material or glass or glass for overhead lines with a nominal voltage greater than 1000V	IEC:60383
14		ANSI(American National Standard for Insulator)	ANSI-C-29.2
15		Residual Strength of String Insulator Unit of Glass /Ceremic	IEC-60797

**Annexure-A**

**6.0 Tests on Complete Strings with Hardware Fittings**

**6.1 Voltage Distribution Test (For Disc Insulator strings only)**

The voltage across each insulator unit shall be measured by sphere gap method. The result obtained shall be converted into percentage and proportionate correction be applied as to give a total of 100% distribution. The voltage across any disc. Not exceed as specified in the Tender specification .

**6.2 Corona Extinction Voltage Test (Dry)**

The sample assembly when subjected to power frequency voltage shall have a corona extinction voltage of not less than the value specified in Tender specification . There shall be no evidence of corona on any part of the sample. The atmospheric condition during testing shall be recorded and the test results shall be accordingly corrected with suitable correction factor as stipulated in IEC : 383.

**6.3 RIV Test (Dry)**

Under the conditions as specified under (6.2) above, the insulator string along with complete hardware fittings shall have a radio interference voltage level below 1000 micro volts at one MHz when subjected to 50 Hz AC voltage of 1.1times of ground voltage under dry condition . The test procedure shall be in accordance with IS:8263/IEC : 437.

**6.4 Mechanical Strength Test**

The complete insulator string along with its hardware fitting excluding arcing horn/ corona control ring/ grading ring and suspension assembly/dead end assembly shall be subjected to a load equal to 50% of the specified minimum ultimate tensile strength (UTS) which shall be increased at a steady rate to 67% of the minimum UTS specified. The load shall be held for five minutes and then removed. After removal of the load, the string components shall not show any visual deformation and it shall be possible to disassemble them by hand. Hand tools may be used to, remove cotter pins and loosen the nuts initially. The string shall then be reassembled and loaded to 50% of UTS and the load shall be further increased at a steady rate till the specified minimum UTS and held for one minute. No fracture should occur during this period. The applied load shall then be increased until the failing load is reached and the value recorded.

**6.5 Vibration Test**

The suspension string shall be tested in suspension mode, and tension string in tension mode itself in laboratory span of minimum 30 metres. In the case of suspension string a load equal to 600 kg shall be applied along the axis of the suspension string by means of turn buckle. The insulator string along with hardware fittings and four sub-conductors (each tensioned at 43 kN for 400 kV line) shall be secured with clamps. The system shall be suitable to maintain constant tension on each sub-conductors throughout the duration of the test. Vibration dampers shall not be used on the test span. Both the sub-conductors shall be vertically vibrated simultaneously at one of the resonance frequencies of the insulators string (more than 10 Hz) by means of vibration inducing equipment. The peak to peak displacement in mm of vibration at the antinode point, nearest to the string, shall be measured and the same shall not be less than  $1000/f^{1.8}$  where f is



the frequency of vibration in cycles/sec. The insulator string shall be vibrated for not less than 10 million cycles without any failure. After the test the insulators shall be examined for looseness of pins and cap or any crack in the cement. The hardware shall be examined for looseness, fatigue failure and mechanical strength test. There shall be no deterioration of properties of hardware components and insulators after the vibration test.

## 6.6 Steep Wave Front Test (For Disc Insulator only)

Test following test shall be performed on 10 insulator units in case of disc insulators selected at random from the lot offered for selection of sample for type test.

- a) Each insulator unit shall be subjected to five successive positive and negative impulse flashovers with a wave having minimum effective rate of rise of 2500 kV per microseconds.
- b) Each unit shall then be subjected to three dry power frequency voltage flashovers.

### Acceptance Criteria

An insulator shall be deemed to have met the requirement of this test if, having been successfully subjected to the ten impulse flashovers, the arithmetic mean of the three subsequent dry/power frequency voltage flashover values equals or exceeds 95% of the rated dry power frequency flashover voltage.

An insulator shall be deemed to have failed to meet the requirement of above testing if,

- (a) It has not flash over when the oscillogram or peak voltage indicator shows a marked reduction in voltage.
- or
- (b) Any one of the subsequent three dry power frequency voltage flashover value is less than 80% of the value specified.

Failure of any one unit either in the steep wave front or subsequent low frequency voltage test shall cause for testing on double number of units.

## 6.7 Thermal Mechanical Performance Test

Thermal Mechanical Performance Test shall be performed in accordance with IEC-60383-1 Clause 20 with the following modifications:

- (1) The applied mechanical load during this test shall be 70% of the rated electromechanical or mechanical value.
- (2) The acceptance criteria shall be
  - (a)  $X$  greater than or equal to  $R + 3S$ .

Where

$X$  = Mean value of the individual mechanical failing load.

R = Rated electro-mechanical / mechanical failing load.

S = Standard deviation.

- (b) The minimum sample size shall be taken as 20 for disc insulator units and 5 units for long rod units.
- (c) The individual electromechanical failing load shall be at least equal to the rated value. Also puncture shall not occur before the ultimate fracture.

## 6.8 Electromechanical Failing Load Test

This test shall be performed in accordance with IS-731/ IEC 383 with the following acceptance

- (i)  $\bar{X}$  greater than or equal to  $R + 3S$

Where

X = Mean value of the electro-mechanical/mechanical/ failing load.

R = Rated electro-mechanical / mechanical failing load.

S = Standard deviation.

- (ii) The minimum sample size shall be taken as 20 for disc insulators units and 5 for long rod units. However, for larger lot size, IEC 591 shall be applicable.
- (iii) The individual electro-mechanical/mechanical failing load shall be at least equal to the rated value. Also electrical puncture shall not occur before the ultimate fracture.

## 6.9 IR Measurements

IR measurement shall be carried out by the instrument operating at 1 kV DC. IR value when measured under fair weather condition, shall not be less than 50 M-ohm.

## 6.10 Residual Strength Test (For Disc Insulators only)

The above test shall be performed as per clause 4.4 and 4.5 of IEC 797 preceded by the temperature cycle test, on both glass and porcelain disc insulators. The Sample size shall be 25 and the evaluation of the results and acceptance criteria shall be as per clause No. 4.6 of IEC:797.

## 6.11 Impact Test

The Impact Test shall be carried out in accordance with ANSI-C-29.2 Clause 8.2.8 with the following modification.

The breaking point of the pendulum shall be so adjusted that, when released the copper nose will strike the outer rim of the shell or the most protuded rim of the shell squarely in a direction parallel to the axis of the unit and towards the cap.

## 6.12 Tests on All components (As applicable)

### 6.12.1 Chemical Analysis of Zinc used for Galvanizing

Samples taken from the zinc ingot shall be chemically analysed as per IS:209-1979. The purity of zinc shall not be less than 99.95%.

### 6.12.2 Tests for Forgings

The chemical analysis hardness tests and magnetic particle inspection for forgings, will be as per the standard procedures for these tests

### 6.12.3 Tests on Castings

The chemical analysis, mechanical and metallographic tests and magnetic, particle inspection for castings will be as per the standard procedures for these tests.

**6.13****ECCENTRICITY TEST:**

The insulator shall be vertically mounted on a fixture using dummy pin and socket. A vertical scale with horizontal slider shall be used for the axial run out. The pointer shall be positioned in contact with the bottom of the outermost petticoat of the disc. The disc insulators shall be rotated with reference to the fixture and the slider shall be allowed to move up and down on the scale but always maintaining contact with the bottom of the outer most petticoats. After one full rotation of the disc the maximum and minimum position the slider has reached on the scale can be found out. Difference between the above two readings shall satisfy the guaranteed value for axial run out.

Similarly using a horizontal scale with vertical slider the radial run out shall be measured. The slider shall be positioned on the scale to establish contact with the circumference of the disc insulator and disc insulator rotated on its fixture always maintaining the contact. After one full rotation of the disc the maximum and minimum position the slider has reached on the scale can be found out. Difference between the above two readings shall satisfy the guaranteed value for axial run out..

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**SCHEDULE-I****PRICE AND QUANTITY**

S. No	Particular	Unit	Qty. reqd.	Qty. offered	Unit FOR Ex-works price inclusive of packing charges (Rs./unit)	GST	Forwarding & Freight Charges (Rs./unit)	GST	Total FOR price	Total amount
1	2	3	4	5	6	7	8	9	10 (6+7+8+9)	11 (10x5)
1	70 KN Disc Insulator	No	15000							
2	90 KN Disc Insulator	No.	17500							
3	160 KN Disc Insulator	No	3400							

- 1) The price quoted in column 6 shall be FIRM price only.
- 2) The offer with the rates given in any form/ proforma, other than that mentioned above shall be summarily rejected.
- 3) In case any of the material import is involved, no import assistance shall be provided by CSPTCL.
- 4) Rate in various tapering step shall not be considered & hence rate shall be indicated by singular figure only.
- 5) Any variation on taxes/statutory payment on account of change in policy of Govt. either upward or downward within contractual delivery schedule will be on CSPTCL account. However, any upward change on account of increase in turnover shall be on Bidder's account.
- 6) Only statutory variation due to Govt regulations in GST during Contractual delivery period shall be paid by CSPTCL
- 7) The rates will be quoted through online e bidding portal (SAP SRM system) only. Price schedule duly filled in hard copy is not required

**Signature & Seal of Bidder**

**SCHEDULE-II (Part-I)**  
**GUARANTEED TECHNICAL PARTICULARS OF B&S Type 70KN, 90KN & 160 KN PORCELAIN DISC INSULATORS**

Sl.	Description	Unit	As per requirement of the tender			As offered by the bidder		
			70 KN Disc Insulator	90 KN Disc Insulator	160 KN Disc Insulator	70 KN Disc Insulator	90 KN Disc Insulator	160 KN Disc Insulator
1.0	<b>General</b>							
	Type of Insulator (Pin & Cap)		Ball & Socket	Ball & Socket	Ball & Socket			
a)	Size and Designation of pin ball shank	mm	16 as per IS 2486/IEC 120	16 as per IS 2486/IEC 120	20 as per IS 2486/IEC 120			
2.0	<b>Dimensions</b>							
a)	Diameter of disc	mm	255	255	280			
b)	Tolerance on Diameter	± mm	11	11	13			
c)	Ball to ball spacing between Disc	mm	145	145	170			
d)	Tolerance on spacing	± mm	4	4	5			
e)	Minimum nominal creepage distance of single disc	mm	320	320	330			
3.0	<b>Materials</b>							
a)	Colour of glaze of finished porcelain insulator		Brown	Brown	Brown			
b)	Mechanical values . iv. Electromechanical Strength of disc in KN v. Materials used for ball pins. vi. Grade of material	KN	70 Forged steel Class 3A or 4 of IS 2004	90 Forged steel Class 3A or 4 of IS 2004	160 Forged steel Class 3A or 4 of IS 2004			
c)	Ultimate tensile stress Kg. Per mm <sup>2</sup> Ball pin & Cap material	Kg. Per mm <sup>2</sup>	63	63	<b>71</b>			
d)	Yield stress Kg. Per mm <sup>2</sup> Ball pin & Cap material	Kg. Per mm <sup>2</sup>	32.5	32.5	<b>47</b>			
e)	Hardness test value BHN Ball pin & Cap material	BHN	175	175	<b>201-255</b>			
f)	Percentage elongation Ball pin & Cap material	%	(min. 15%)	(min. 15%)	<b>(min. 14%)</b>			
g)	Whether machine forced		Yes	Yes	<b>Yes</b>			
h)	Normalising particulars (Temp in C )		30-880	30-880	<b>30-880</b>			
5.0	<b>Minimum electrical values</b>							
a)	Power frequency flashover voltage of (dry)	kV (rms)	75	75	80			
b)	Power frequency flashover voltage of (Wet)	kV (rms)	45	45	50			
c)	Impulse flashover test voltage 1.2 x 50 µs positive (Dry)	kV (peak)	115	115	130			
d)	Impulse flashover test voltage 1.2 x 50 µs negative (Dry)	kV (peak)	115	115	130			
e)	Power frequency withstand voltage of (dry)	kV (rms)	70	70	75			
f)	Power frequency withstand voltage of (Wet)	kV (rms)	40	40	45			
g)	Impulse withstand test voltage 1.2 x 50 µs positive (Dry)	kV (peak)	110	110	125			

Sl.	Description	Unit	As per requirement of the tender			As offered by the bidder		
			70 KN Disc Insulator	90 KN Disc Insulator	160 KN Disc Insulator	70 KN Disc Insulator	90 KN Disc Insulator	160 KN Disc Insulator
h)	Impulse withstand test voltage 1.2 x 50 $\mu$ s negative (Dry)	kV (peak)	110	110	125			
i)	Steepness of impulse voltage (steep wave front test)	kV/us	2500	2500	2500			
6.0	Power frequency puncture voltage	kV (rms)	110	110	125.0			
7.0	Minimum Visible discharge voltage of single disc (dry)	kV (rms)	9	9	18.0			
8.0	Maximum RIV at 1 MHz and 10kV AC (rms) voltage of single disc	Micro -volts	50.0	50.0	50.0			
9.0	Eccentricity of disc			7.65				
a)	Max. radial run out	mm	7.65	10.2	8.4			
b)	Max. axial run out	mm	10.2		11.2			
10.0	<b>Galvanising</b>							
a)	Minimum mass of zinc coating	Gm/ sq. m.	600	600	600			
b)	Minimum no. of one minute dips in the standard preece test	Nos	6 dips	6 dips	6 dips			
c)	Minimum purity of zinc used for galvanizing	%	99.95	99.95	99.95			
11.0	Security clip/ locking device a) Type and dimension  b) Material  c) Standard to which security clip confirmed		R TYPE and dimensions as per 2486  Stainless steel  Guaranteed as per IS 2486 (Part-IV) IEC no. 372I 1971	R TYPE and dimensions as per 2486  Stainless steel  Guaranteed as per IS 2486 (Part-IV) IEC no. 372I 1971	R TYPE and dimensions as per 2486  Stainless steel  Guaranteed as per IS 2486 (Part-IV) IEC no. 372I 1971			
12	Standard specification to which insulator will confirm		IS- 731 & IS- 3188	IS- 731 & IS- 3188	IS- 731 & IS- 3188			

**SCHEDULE-I (PART-II) GUARANTEED TECHNICAL PARTICULARS FOR DISC INSULATOR STRINGS**

Sl. No.	Description	Unit	Standard Technical Particular value					As offered by the bidder						
			Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string		
			1 x 9/ 2x9	1x10/ 2x10	1x1 3/ 2x1 3	1 x 14/ 2 x 14	1 x 23/ 2 x 23	1 x 24/ 2 x 24	1 x 9/ 2x9	1x10/ 2x10	1x13/ 2x13	1 x 14/ 2 x 14	1 x 23/ 2 x 23	1 x 24/ 2 x 24
			132K V	132K V	220 KV	220 KV	400K V	400K V	132 KV	132K V	220 KV	220 KV	400K V	400K V
1.0	Power frequency withstand voltage of string with arcing horns, corona	kV (rms)	275	285	460	480	680	680						
2.0	Switching withstand voltage (dry)	kV (Peak)	-	-	-	-	1050	1050						
	a) Positive		-	-	-	-	1050	1050						
	b) Negative													
3.0	Impulse withstand voltage (dry)	kV (Peak)	650	650	1050	1050	1550	1550						
	a) Positive		650	650	1050	1050	1550	1550						
	b) Negative													
4.0	Impulse flashover voltage (dry)	kV (Peak)	680	680	1100	1100	1615	1615						
	a) Positive		680	680	1100	1100	1615	1615						
	b) Negative													

Sl. No.	Description	Unit	Standard Technical Particular value						As offered by the bidder					
			Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string	Single/double Suspension string	Single/Double Tension string		
			1 x 9/2x9	1x10/2x10	1x13/2x13	1 x 14/2 x 14	1 x 23/2 x 23	1 x 24/2 x 24	1 x 9/2x9	1x10/2x10	1x13/2x13	1 x 14/2 x 14	1 x 23/2 x 23	1 x 24/2 x 24
			132KV	132KV	220KV	220KV	400KV	400KV	132KV	132KV	220KV	220KV	400KV	400KV
50	Minimum corona extinction voltage under dry condition	kV (rms)	105	105	154	154	320	320						
60	RIV at 1 MHZ when string is energised at 305 kV (rms) under dry condition	Microrolts	1000 (max.)	1000 (max.)	1000 (max.)	1000 (max.)	1000 (max.)	1000 (max.)						
70	Mechanical strength of complete insulator string alongwith hardware fittings	kN	70/2*70	90/2*90	70/2*70	160/2*160	120/2*120	160/2*160						
80	Maximum voltage distribution across any disc of line to earth voltage	%	21	21	13	14	9	10						



**SCHEDULE-II**  
**TECHNICAL INFORMATION**

- (i) Strike-off, whichever is not applicable  
(ii) Separate sheet should be used, wherever necessary.

1	Whether Disc insulator offered are exactly as per the technical specification	Yes/No
2	Whether Disc insulator quoted for both lines & substations	Yes/No, give details
3	Whether the copies of orders received during last 5 years from other State Electricity Board/NTPC & other organization for similar materials enclosed	Yes/No, give details
4	Whether performance certificate from such organization regarding supplies enclosed	Yes/No, give details
5	Whether pamphlets/technical details literatures along with drawing etc. furnished with the offer	Yes/no, give details
6	Whether the Bidder agrees to furnish materials test certificates in respect of chemical composition and physical properties from Govt./Govt. Approved Lab. With each batch of supplies	Yes/No
	Whether the Bidder has furnished details of manufacturing materials and short history of plant	Yes/No, give details
8	Whether details of manufacturing process furnished with offer	Yes/No, give details
9	Whether all testing facilities are available, if so, give details and in case of non-availability of facilities indicate approved lab. available in surrounding areas where tests are proposed to be conducted	Yes/No, give details
10	Whether you agree for inspection by Company's representative prior to dispatch and bear the testing charges for all tests as per relevant standards	Yes/no
11	Whether Disc insulator quoted are as per IS Specification relevant to each items	Yes/No, give details

**Place: -**

**SIGNATURE OF BIDDER  
NAME IN FULL**

**Date: -**

**DESIGNATION/STATUS IN THE VARIABLE  
COMPANY SEAL**

**SCHEDULE-III****SCHEDULE OF TECHNICAL DEVIATIONS.**

We/I have carefully gone through the Technical specification and the General condition of contract and we/I have satisfied ourselves/myself and hereby conform to the requirement of technical specification and General Conditions of contract except for the deviations, which are given below:-

S.No.	Descriptions & Clause No. of The specification & page no.	Stipulation in specification	Deviation offered	Remarks regarding justification Of the deviation.
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Dated

Name and seal of the tendering  
Company.

**SCHEDULE-IV****COMMERCIAL INFORMATION**

(i) Strike-off, whichever is not applicable

(ii) Separate sheet should be used, wherever necessary.

1	Name of Manufacturer	
2	Address of Manufacturer	a)Office :  b) Works:
3	Telephone Nos./  FAX No.	Office :  Works:  O/R
4	Date of starting manufacturing of Disc Insulator	
5	Date of Type test of tendered products whether documents attached.	
6	Whether Disc Insulator confirm latest IS specification.	
7. i)	Earnest Money details	Bank draft/Banker's cheque/ Cash with Manager (RAO:HQ), CSPTCL, Raipur No.
ii)	Amount of EMD and full details	Rs.
iii)	If exempted, state whether bidder is	SSI Unit of CG/Small scale unit registered with NSIC/Fully owned State Central Govt. Unit.
iv)	Reference of documentary evidence regarding exemption enclosed	Yes/No
8.	Whether the offer is valid for 180 days from the date of opening of commercial/technical bid	Yes/No (If no, state validity period)
9	Rate of GST	
10.	MODE OF DESPATCH Note:- Despatch by Road is acceptable:- i) only when the Bidder agrees to supply the material on door delivery bases and through bank approved road transporters and ii) Agrees for payment after receipt of material in good condition	By Rail/By Road

11	FREIGHT CHARGES	Inclusive @ Exclusive @
12.	Discount :- a) Whether any rebate/discount is offered b) If yes, whether the rebate is unconditional/conditional c) If conditional state condition	Yes/No
13.	PAYMENT TERMS:- Whether Companies terms of payment is acceptable to the Bidder (if no state conditions)	Yes/No
14.	DELIVERY PERIOD:-	
	a) Commencement of supplies from date of order b) Completion & supply rate from the date of Order.	
15.	PENALTY CLAUSE Whether agreeable to Company Penalty clause	Yes/No
16.	GUARANTEE PERIOD: - Intimate guarantee period of material offered by you	Yes/No
17.	SECURITY DEPOSIT :- Whether agreeable to CSPTCL's Security Deposit clause (As per integrity pact validity up to 5 years)	Yes/No
18	EXTENSION ORDER:- Whether you are agreeable to accept extension order on the same rates, terms & condition if any extension order is placed within 6 months from the date of placement of detailed order.	Yes/No
19	Please mention whether rates offered are applicable for part quantities.	Yes/No
20.	Whether all testing charges included in quoted rates	YES / NO
21.	Whether Packing condition is as per our specification.	YES / NO
22.	Whether you are State/Central Govt. undertaking	YES / NO
23.	Have you furnished documentary evidence in respect of qualifying requirement.	YES / NO
24.	Whether manufacturer is ready for Stage test during manufacturing of hardware's.	YES / NO
25	Mention turn over of the firm for best three financial years out of last 05 financial years (Enclose balance sheets in support)	
	2014-15	
	2015-16	
	2016-17	
	2017-18	
	2018-19	

26	C.A. <b>audited notarized</b> copy of net worth for the last three financial years submitted	YES / NO
27.	Whether dimensional sketch indicating approximate. Weight of each Disc Insulator enclosed.	YES / NO
28.	Whether integrity pact in the prescribed format executed in non judicial stamp paper worth Rs.300/- has been enclosed	Yes/No
29	Whether the testing facility for acceptance test is available at the bidder's factory premises	YES / NO
30	whether you agree to arrange acceptance test at your works	
31	<b><u>Indicate quantity quoted in Price schedule</u></b>	In nos.

**Place: -**

**Date: -**

**SIGNATURE OF BIDDER**

**NAME IN FULL**

**DESIGNATION/STATUS IN THE VARIABLE**

**COMPANY SEAL**

**SCHEDULE – V****SCHEDULE OF COMMERCIAL DEVIATIONS.**

We/I have carefully gone through the Commercial requirement of the specification and the General condition of contract and we/I have satisfied ourselves/myself and hereby conforms to the requirement of technical specification and General Conditions of contract except for the deviations, which are given below:-

S.No.	Descriptions & Clause No. of The specification Page No.	Stipulation in specification	Deviation offered	Remarks regarding justification of the deviation.
-------	--	---------------------------------	----------------------	--

Dated

Name and seal of the tendering  
Company.

Place

**SCHEDULE-VI**  
**ANNUAL TURNOVER**

<b>Annual Turnover Data for the Last 5 Years</b>	
<b>Year</b>	<b>Amount in Rs.</b>
2015-16	
2016-2017	
2017-2018	
2018-2019	
2019-2020	
<b>Total Turnover</b>	

The information supplied should be the Annual Turnover of the Bidder for each year for contracts in progress or completed.

**Date:**

**Signature :**

**Name :**

**Status :**

**Seal of the Tendering Co.:**

**SCHEDULE : VII**

**SCHEDULE OF BIDDER'S EXPERIENCE**

Bidder shall furnish here a list of similar jobs executed by him. A reference may be made by the purchase to them in order be considers such a reference necessary.

S.No.	Name & Description of work. (adequate details to be given certifying the work done)	Order No. & date	Period & date of supply	Client or order placing authority	Person to whom reference to be made

**Signature of Bidder**

**Name :**

**Company :**



**SCHEDULE– VIII**(A) **Name of the manufacturer, place of manufacturing, testing and inspection.**

S.No.	Description	Manufacturer	Place of manufacturing	Date of testing and inspection

(B) **Details of Disc insulator supplied during last 5 years**

Description	Qty.	Year				

(C) **Detail of type test carried out**

SI No.	Name of Items	Name of test Lab	Date of testing	Reference of relevant ISS

The bidder should submit the detailed order copy and execution certificate for supply of Disc Insulators from Govt. utilities like SEB, PGCIL, NTPC, State Transco., and Railway etc.

Dated

Name and seal of the tendering  
Company.

Place

**SCHEDULE-IX**

**PROFORMA FOR BANK GUARANTEE TOWARDS SECURITY DEPOSIT**  
(To be executed on non-judicial stamp paper of Rs. 250/- and Revenue stamp may be affixed on Bank Guarantee)

Bank Guarantee No..... Dtd.....

In consideration of the Chhattisgarh State Power Transmission Company Limited, Raipur ( A successor company of Chhattisgarh State Electricity Board, Raipur hereinafter referred to as 'CSPTCL') having agreed to accept this Bank Guarantee in lieu of cash deposit by way of Security for due and faithful performance required from M/s. \_\_\_\_\_ (herein after referred to as "Contractors", the Bank of \_\_\_\_\_ hereby agrees unequivocally and unconditionally to pay within 48 hours on demand in writing from the Chhattisgarh State Power Transmission Company Limited or any officer authorized by it in this behalf of any amount upto and not exceeding Rs.....(in words) ..... only to the said Chhattisgarh State Power Transmission Company Limited on behalf of the aforesaid M/s ..... who have tendered and contracted for the supply of materials, equipments or services to the said the Chhattisgarh State Power Transmission Company Ltd, against order No..... dtd..... for the order value of Rs.....

The beneficiary of this Bank Guarantee shall be Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor company of CSEB Raipur). The proceeds / encashment of this Bank Guarantee would go in the name of Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor company of CSEB Raipur).

This agreement should be valid and binding on this bank upto and including \_\_\_\_\_ of for such further period as may hereunder be mutually fixed from time to time in writing by the Chhattisgarh State Power Transmission Company Ltd. and the contractor and shall not be terminable by notice or any change in the constitution of the aforesaid bank or the firm of Contractors or by any others reasons whatsoever and the Banker's liability hereunder shall not be impaired or discharged by any extension of time or variations or alteration made, given conceded or agreed to with or without the Bank knowledge or consent by or between the Chhattisgarh State Power Transmission Company Ltd. and contractor in the existing and / or further tenders and / or contracts.

It is agreed by the Bank with the CSPTCL that if for any reason a dispute arises concerning the Bank's liability to pay the requisite amount to the CSPTCL under the terms of this guarantee the competent court at Raipur alone shall have the jurisdiction to determine the said dispute and that this shall be without prejudice to the liability of the Bank under the terms of this guarantee being unequivocal and unconditional as mentioned above.

The liability under this guarantee is restricted to Rs..... (In words) ..... only. This guarantee shall remain in force until ..... Unless a demand to enforce a claim under the guarantee is made under this Bank Guarantee by the CSPTCL to the Bank within six months from that date the rights of the Chhattisgarh State Power Transmission Company Ltd under this guarantee shall be forfeited and Bank shall be relieved and discharged from all liabilities there under.

WITNESSES: -

SIGNATURES

Authorized Signatories of Bank

1. .... Signed. \_\_\_\_\_

2. .... for \_\_\_\_\_ Bank

## **SCHEDULE-X**

### **PRE-CONTRACT INTEGRITY PACT**

#### **1. GENERAL**

- 1.1 This pre-bid contract Agreement (herein called the Integrity Pact) is made on.....day of the month .....20..., between the CSPTCL acting through Shri.....ED(S&P.), CSPTCL (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise requires, his successors in the office and assigns) and the First Party, proposes to procure (name of the Stores/Equipment/Work/Service) and M/s.....represented by Shri..... Chief Executive Officer (hereinafter called the “BIDDER/Seller”, which expression shall mean and include, unless the context otherwise requires, his successors an permitted assigns) and the Second Party, is willing to offer/has offered.
- 1.2 WHEREAS the BIDDER is a Private Company/Public Company/ Government undertaking/Partnership/Registered Export Agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government, performing its function on behalf of the CSPTCL.

#### **2. OBJECTIVES**

NOW, THEREFORE, the BUYER and the BIDDER agree to enter into this pre-contract agreement, hereinafter referred to as Integrity Pact, to avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the Contract to be entered into with a view to:-

2.1. Enabling the BUYER to obtain the desired Stores/Equipment/Work/Service at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and 2.2. Enabling BIDDERS to abstain from bribing or indulging in any corrupt practices in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing any corrupt practices and the BUYER will commit to prevent corruption, in any form, by its official by following transparent procedures.

#### **3. COMMITMENTS OF THE BUYER**

The BUYER commits itself to the following:-

- 3.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting of implementation process related to contract.
- 3.2 The BUYER will, during the pre-contract stage, treat BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to the other BIDDERS.

- 3.3 All the officials of the BUYER will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with the full and verifiable facts and the same prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

#### **4. COMMITMENTS OF BIDDERS**

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

- 4.1. The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 4.2. The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage, or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the CSPTCL for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the CSPTCL.
- 4.3. The BIDDER further confirms and declares to the BUYER that the BIDDER in the original Manufacture/Integrator/Authorized government sponsored export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 4.4. The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payment he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 4.5. The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 4.6. The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 4.7. The BIDDER shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business

- relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 4.8. The BIDDER commits to refrain from giving any compliant directly or through any other manner without supporting it with full and verifiable facts.
  - 4.9. The BIDDER shall not instigate or cause to instigate any third person to commit any of the acts mentioned above.

## **5. PREVIOUS TRANSGRESSION**

- 5.1. The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 5.2. If the BIDDER makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

## **6. EARNEST MONEY (SECURITY DEPOSIT)**

- 6.1. Every BIDDER while submitting commercial bid, shall deposit an amount as specified in RFP as Earnest Money/Security Deposit, with the BUYER through any of the following instruments:
  - (i) Bank Draft or a Pay Order in favour of.....
  - (ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guarantee sum to the..... (BUYER).....on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.
  - (iii) Any other mode or through any other instrument (to be specified in the RFP).
- 6.2. The Earnest Money/Security Deposit shall be valid upto a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and BUYER, including warranty period, whichever is later.
- 6.3. In the case of successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.4. No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

## **7. SANCTIONS FOR VIOLATIONS**

- 7.1. Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-
  - (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

- (ii) To forfeit fully or partially the Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed), as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- (iv) To recover all sums already paid by the BUYER, and in case of the Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate while in case of a BIDDER from a country other than India with Interest thereon 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER and the BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in future bidding processes of the CSPTCL for a minimum period of five years, which may be further extended at the discretion of the BUYER.
- (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middlemen or agent or broken with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- (x) If the BIDDER or any employee of the BIDDER or any person action on behalf of the BIDDER, either directly or indirectly, is closely related to any of the officers of the BUYER, or alternatively, if any close relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender. Any failure to disclose the interest involved shall entitle the BUYER to rescind the contract without payment of any compensation to the BIDDER.

The term "close relative" for this purpose would mean spouse whether residing with the Government servant or not, but not include a spouse separated from the Government servant by a decree or order of a competent court; son or daughter or step son or step daughter and wholly dependent upon Government servant, but does not include a child or step child who is no longer in any way dependent upon the Government servant or of whose custody the Government servant has been deprived of by or under any law; any other person related, whether by blood or marriage, to the Government servant or to the Government servant's wife or husband and wholly dependent upon Government servant.

- (xi) The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER, and if he does so, the BUYER shall be entitled forthwith to rescind the contract and all other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- 7.2. The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Monitor(s) appointed for the purpose of this Pact.

## **8. FALL CLAUSE**

- 8.1. The BIDDER undertakes that if has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Department of the Government of Chhattisgarh or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Department of the Chhattisgarh or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

## **9. INDEPENDENT MONITORS**

- 9.1. The BUYER will appoint Independent Monitors (hereinafter referred to as Monitors) for this Pact.
- 9.2. The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 9.3. The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 9.4. Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 9.5. As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 9.6. The Monitor will be submit a written report to the designated authority of BUYER/Secretary in the department/within 8 to 10 weeks from the date of reference or intimation to him by the BUYER /BIDDER and, should the occasion arise, submit proposal for correcting problematic situation.

## **10. FACILITATION OF INVESTIGATION**

In case of any allegation of violation of any provision of this fact or payment of commission, the BUYER or its agency shall be entitled to examine all the documents including the books of Account of the BIDDER and the BIDDER shall provide necessary information of the relevant documents and shall extend all possible help for the purpose of such examination.

## **11. LAW AND PLACE OF JURISDICTION**

This pact is subject to Indian Law, the place of performance and jurisdiction shall be the seat of the BUYER.

**12. OTHER LEGAL ACTIONS**

The actions stipulated in this integrity Pact are without prejudice to any other legal action that may following in accordance with the provisions of the any other law in force relating to any civil are criminal proceeding.

**13. VALIDITY**

- 13.1 The validity of this integrity Pact shall be from the date of its signing and extend up to 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.
- 13.2. If one or several provision of this pact turn out to be invalid; the reminder of this pact shall remain valid. In such case, the parties will strive to come to an agreement to their original intention.
- 14. The parties hereby sign this integrity Pact at .....on.....

**BUYER**  
Chief Engineer (S&P)  
CSPTCL, Raipur

**BIDDER**  
CHIEF EXECUTIVE OFFICER  
Department/PSU

**Witness**

**Witness**

(i).....  
.....

(i).....  
.....

(ii).....  
.....

(ii).....  
.....



**SCHEDULE – XI**  
**CHECK LIST**

Please check following documents, before submission of Techno commercial Bid.

S.No	ITEMS	REFERENCE	Whether submitted/not submitted
1	Earnest money enclosed	Covering letter (As per clause 8.1 Section-I)	Yes/No
2	Commercial Information	SCHEDULE-IV	Yes/No
3	Technical Information	SCHEDULE-II	Yes/No
5	Bidder's experience	SCHEDULE-VII	Yes/No
6	Commercial Deviation	SCHEDULE-V	Yes/No
7	Technical Deviation	SCHEDULE-III	Yes/No
8	CA certified Annual turnover	SCHEDULE-VI	Yes/No
9	Networth	SCHEDULE-V-B	Yes/No
10	CA Certificate	SCHEDULE-V-C	Yes/No
11	Bidder's Declaration	SCHEDULE-V-D	Yes/No
12	Details of Manufacturer	SCHEDULE-VIII	Yes/No
15	Power of Attorney		Yes/No
17	NSIC/DIC/ Factory registration certificate	As per PQR 1	Yes/No
18	For 5 years experience in supply –Copy of purchase order along with relevant MRC/Performance and 3 year satisfactory performance	As per PQR 2(a)	Yes/No
19	For CG state SSI Units submit MSM Eregistration and type test	As per PQR 2(b)	Yes/No
21	Type test certificate not older than 10 years	As per PQR 3	Yes/No
22	Financial data for previous 5 years	As per PQR 4	Yes/No
23	CA certified Net worth certificate	As per PQR 5	Yes/No
24	Declarations	As per PQR 6 and 7	Yes/No
	CA certificate	As per PQR 8	
	Self attested declaration	As per PQR 9	
25	Integrity Pact	As per PQR 10 SCHEDULE-X	Yes/No

**Signature & Seal of the Bidder**