



TRANSMISSION CORPORATION OF TELANGANA LIMITED
HYDERABAD - 500 082:: TELANGANA

Tender Specification No. TGPMM11- 03/2026
For supply of 400 KV Lightning Arrestors

The CHIEF ENGINEER (P&MM),
Room No. 207 B-Block, Vidyut Soudha,
Khairatabad, Hyderabad-500082

Web-Site: www.tgtransco.com

Phone No. 040-23396000 EXTN. 3670,3583, 3276,3343

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SECTION-I
Notice Inviting Tenders (NIT)

1. Department Name : TRANSMISSION CORPORATION OF TELANGANA LIMITED
2. Circle/ Division Name : Chief Engineer/P&MM
3. Bid Notice No. : **TGPMM11-03/2026**
4. Bid Subject : Supply of 400KV Lightning Arresters-12 Nos.
5. Estimated Contract Value (ECV) : Rs.22,67,232.00
6. Period of Contract : Delivery period + 18 months Guarantee period
7. Form of Contract : Supply of Equipment
8. Bid Type : Open
9. Bid Category : Goods
10. BID SECURITY : Rs. 45,345.00
11. BID SECURITY Payable to : Demand Draft in the name of “Pay Officer, TGTRANSCO” payable at Hyderabad (or)
Bank Guarantee in favour of “Chief Engineer/P&MM TGTRANSCO, Vidyut Soudha, Hyderabad – 500 082”.
12. Schedule Availability Date : From 07.00 PM on 22-01-2026
13. Pre-bid meeting : 3.00 PM on 10-02-2026
14. Schedule Closing Date & Time for downloading of Bid document : -----
15. Bid Submission closing Date & time : 03:00 P.M. on 19-02-2026
16. Bid Submission : Online
17. P.Q / Technical Bid Opening Date (Qualification and Eligibility stage) : At 03.30 PM on 19-02-2026
18. Price Bid Opening Date & Time : Will be opened on line

19. **Eligibility Criteria:**

19.1 The detailed Qualifying Requirements are indicated in Section-VI.

19.2 **Responsibility for correctness of the information submitted in online bid lies with bidder. If any information furnished in the bid is proved to be false at a later date, the bid will not only be rejected but the bidder will be BLACKLISTED.**

20. **Officer Inviting Bids:** Chief Engineer / P&MM /TGTRANSCO

21. **Address:** Room No. 207 B-Block, Vidyut Soudha, Khairatabad, Hyderabad-500082

22. **Contact Details:**

Phone : 040-23396000 EXTN. 3670,3583, 3276 3748, 3334

23. **Procedure for bid submission:**

23.1 The Bids should be in the prescribed form, which can be obtained from e-procurement platform from the date of electronic publication up to the time and date indicated in the bid notice. The intending bidders would be required to enroll themselves on the e-procurement market place **[https:// tender.telangana.gov.in](https://tender.telangana.gov.in)**.

Those contractors who register themselves in the e-procurement market place can download the Bid schedules free of cost. The bidder shall authenticate the bid with his digital certificate for submitting the bid electronically on e-procurement platform and the bids not authenticated by digital certificate of the bidder will not be accepted on the e-procurement platform following the G.O.Ms.No.6, I.T&C Department, dated 28-02-2005. **For enrolment and Registration TSTSL, 2nd Floor, HACA Bhavan, Opp. to Assembly, Nampally, Hyderabad is to be contacted.**

23.2 Intending bidders can contact office of the Chief Engineer / P&MM, TGTRANSCO, Vidyut Soudha, Hyderabad for any clarification/ information on any working day during working hours.

23.3 The bidders who are desirous of participating in e-procurement shall submit their technical bid, price bid etc. in the standard formats prescribed in the bid documents displayed at e-market place. The bidders should invariably upload the statement showing the list of documents uploaded in the e-market place in support of their technical bid. The bidder should upload scanned copies of all the statements, certificates, documents etc. as called for hereunder, duly signed by him, owning responsibility for their correctness/ authenticity.

23.4 Technical bid evaluation of the bidders would be done on the certificates/ documents uploaded/furnished by the bidder against the qualification criteria.

23.5 The bidders shall invariably upload the scanned copy of Bid Security, either Demand Draft/ Bank Guarantee. The successful bidder shall furnish the original of the same either personally or through courier or by post within the stipulated time specified by the purchaser.

23.6 The bidder shall invariably upload the following:

- a) Documentary evidence to establish the quantities supplied so far such as Invoices, Delivery Challans, GST documents etc. along with Purchase Orders against 40% quantity of supply and 20% quantity of satisfactory performance to meet the Qualifying Requirements.
- b) Performance reports to meet QR-Performance along with the documentary evidence in support of the same such as copies of purchase orders, invoices, Delivery Challans etc.
- c) Documents in respect of Financial Turnover of last five years etc.
- d) Type test reports as per the bid specification,
- e) Guaranteed Technical Particulars (GTP), drawings etc.
- f) Other declarations/statements/ information as per the formats of bid specification.

23.7 The bidder shall furnish original of all documents/ certificates/ statements uploaded by him whenever sought by the Purchaser. The successful bidder shall furnish their company brochures, technical write-ups and printed materials if any.

23.8 The bidder shall furnish the declaration that:

- a) They have not been blacklisted/ debarred by any department due to any reasons, as per the format enclosed.
- b) They will agree to get disqualified themselves for any wrong declaration in respect of the above and get their Bid summarily rejected.
- c) The soft copies uploaded by them are genuine.

Any incorrectness/ deviations noticed will be viewed seriously and apart from cancelling the contract, duly forfeiting the Bid security, criminal action will be initiated including suspension of business and/ or black listing.

24. General Terms & Conditions:

Bids are invited on the e-procurement platform for the above-mentioned procurement from the firms eligible.

24.1 Bid security shall be paid in the shape of crossed Demand Draft drawn in favour of the 'Pay Officer, TGTRANSCO', payable at Hyderabad (or) Bank Guarantee issued from any Scheduled Bank to be valid for a period of 60 days over and above the validity of Bid i.e. 150 days from the date of bid opening. Scanned copy of Demand Draft or Bank Guarantee towards Bid security shall be uploaded along with the Bids. Originals must be submitted by successful bidder to the purchaser through registered post/ courier/ in person before placing of the order.

24.2 Exemption for payment of Bid security is not allowed in any case. The permanent Bid Security Bank Guarantee accepted earlier is deemed to have been withdrawn. Permanent Bid Security Bank Guarantee is not accepted. Bid security extensions accorded earlier are deemed to have been withdrawn.

24.3 Bid schedules: Bid schedule can be downloaded free of cost from the web site [https:// tender.telangana.gov.in.](https://tender.telangana.gov.in)

24.4 The bidder is subject to be disqualified, if he is found to have mislead or furnished false information in the forms/ Statements/ Certificates submitted in proof of qualification requirements and any record of abandoning supplies, not fulfilling contractual obligations in earlier contracts, inordinate delays in completion of supplies, litigation history, Financial failures or participating in the previous Bidding for the same supply and quoting unreasonably high price.

Even while execution of the contract, if it is found that the bidder had produced false/fake certificates of experience, he will be black listed and the contract will be terminated and his Bid security will be forfeited and contract will be carried through other agency at his cost and risk.

24.5

- a) Transaction fee: The participating bidders have to pay transaction fee of 0.03% on Estimated Contract Value (ECV) with a cap of Rs 10000/- (Rupees ten thousands only) for all tenders with ECV upto Rs. 50 Crores plus applicable GST, and Rs.25000/-(Rupees Twenty Five thousand only) plus applicable GST for tenders with Estimated Contract Value (ECV) above Rs.50.00 crores on line payment gateway with any master/visa credit card issued by any Bank and through net Banking facility(direct debit) with AXIS/ICICI or HDFC Banks at the time of bid submission. Submission is mandatory as per GO Ms No.13. Payment of transaction fee through DD will not be accepted".
- b) Corpus Fund: The successful bidder shall pay an amount equivalent to 0.04% of ECV (estimated contract value) with a cap of Rs. 10,000/- (Rupees Ten Thousand only) for all tenders with ECV up to Rs.50.00 Crore and Rs.25,000/- (Rupees Twenty Five Thousand only) for tenders with ECV above Rs.50.00 crore on e-Procurement platform, before entering into agreement/issue of purchase orders towards e-Procurement fund through online only.

24.6 In case of discrepancy with Bid conditions in the Bid document and NIT, the condition in the Bid document prevails.

24.7 Note:

- a) Any other condition regarding receipt of Bids in conventional method appearing in the Bid documents may please be treated as not applicable.
- b) The bidders are to upload the information preferably in Zip format.
- c) The bidders should upload the documents duly signing each and every paper.
- d) Bidders are requested to go through all the clauses and contents of specification thoroughly and quote the bid. Ignorance of clauses will not be entertained by the purchaser at later date.

SECTION-II (A)

INSTRUCTIONS TO BIDDERS

The Chief Engineer/P&MM/TGTRANSCO, Vidyut Soudha, Hyderabad invites bids on e-procurement platform in two parts for the materials indicated in the “Schedule of Requirements” during the period, for which dates and time specified in the NIT, and will be opened by (him) or his nominee at this office on the date and time mentioned in the NIT.

- 1.1 The intending Bidders would be required to enroll themselves on the ‘e-procurement’ market place at [https:// tender.telangana.gov.in.](https://tender.telangana.gov.in)
- 1.2 The Bids should be in the prescribed form invited on e-procurement by the Chief Engineer/P&MM/TGTRANSCO, Vidyut Soudha, Hyderabad (as specified in NIT) that can be downloaded free of cost from the website [https:// tender.telangana.gov.in.](https://tender.telangana.gov.in)
- 1.3 The dates stipulated in the Bid notice, i.e. NIT are firm and under any circumstances they will not be relaxed unless officially extended.
- 1.4 The Bidder should upload scanned copies as specified in checklist and all enclosures required for the schedules and Appendices. Bidders should produce the originals of Bid Security and all other documents for verification within 3 (Three) days if asked for, by the Competent Authority.
- 1.5 Transaction fee: The Transaction fee at 0.03% on ECV (Estimated Contract Value) in total against which the Bidder has offered his Bid with a cap of Rs 10000/- for all procurements with ECV up to Rs 50 Cr and Rs 25000/- plus applicable GST for procurements with ECV above Rs 50 Cr, and applicable GST. Transaction Fee & other charges shall be paid by either Credit Card or Debit Card. The Payment Gateway accepts all Master and VISA credit cards issued by any bank to conduct the transaction. The facility is mandatory for all bidders.
- 1.6 Corpus fund: The successful bidder shall pay an amount equivalent to 0.04% of ECV with a cap of Rs.10,000 (Rupees ten thousand only) for all works with ECV upto Rs. 50 Crores and Rs.25000/- (Rupees Twenty Five thousand only) for works with ECV above Rs.50.00 crores on e-Procurement platform, before entering into agreement/issue of purchase orders towards e-Procurement fund through online only.
- 1.7 The successful Bidder is expected to complete the supplies within the time period specified in the ‘Schedule of Requirements’ (Section-IV).
2. Bidders / Firms eligible to Bid :
- 2.0** The Bidders / Firms who
 - a) Possess the valid registration as mentioned in the NIT and satisfies all the conditions therein.
 - b) Are not blacklisted or debarred or suspended by any department for whatever be the reason, prohibiting them not to continue in the contracting business
 - c) Have complied with the eligibility criteria specified in the NIT are the eligible Bidders /Firms.

2.1 Bidders / Firms ineligible to Bid:

- a) A retired officer of the Govt. of Telangana or Govt. of India executing works/supplies is disqualified from Bidding for a period of two years from the date of retirement without the prior permission of the Government.
- b) The Bidder who has employed any retired officer as mentioned above shall be considered as an ineligible Bidder.
- c) The contractor himself or any of his employee is found to be Gazetted Officer who retired from Government Service and had not obtained permission from the Government for accepting the contractor's employment within a period of 2 years from the date of his retirement.
- d) The Contractor or any of his employees is found at any time after award of contract, to be such a person who had not obtained the permission of the Government as aforesaid before submission of the Bid or engagement in the Contractor's service.
- e) Contractor shall not be eligible to Bid for works/supplies in TS Transco where any of his near relatives are employed in the rank of Assistant Engineer or Assistant Executive Engineers and above on the Engineering side and Assistant Accounts Officer and above on the accounts side. The Contractor shall intimate the names of persons who are working with him in any capacity or are subsequently employed. He shall also furnish a list of Gazetted /Non-Gazetted State Government Employees related to him. Failure to furnish such information Bidder is liable to be removed from the list of approved contractors and his contract is liable for cancellation. The list of relatives deemed to be near relatives is as per annexure to Form-9.

Note: Near relatives include

Sons, step sons, daughters, and step-daughters.

Son-in-law, and daughter-in-law.

Brother-in-law, and sister-in-law.

Brothers and Sisters.

Father and Mother.

Wife / Husband.

Father-in-law and Mother-in-law

Nephews, nieces, uncles and aunts

Cousins and

Any person residing with or dependent on the contractor.

3.0 Documents to be furnished for Qualification Requirements of the Bidders :

- 3.1 The Bidder shall furnish the following particulars in the formats provided online and supported documentary evidence shall be uploaded:

Attested copies of documents relating to the Registration of the firm, Partnership deed, Articles of Association, Commercial Tax Registration/ GST/ TIN Number, Latest Income Tax Clearance certificate/ latest IT return and PAN number from IT Department.

Note: The Partnership firms, which are registered as Contractors shall intimate the change in partnership deed, if any, as per GO Ms No.58, I & CAD, dated 23-04-2002 within one month of such change. Failure to notify the change to the registration authority in time will entail the firms to forfeit their registration and their Bid will be rejected. The intimation of change of partners if any and the acceptance by the Registration authority may be enclosed.

Availability of key personnel for administration/ site management and execution viz., technical personnel required for the work.

- 3.2 Bids from Joint Ventures / agents / consortiums are not acceptable. .
- 3.3 Qualification criteria for opening of the price bid:
- 3.4 Even though the Bidders meet the above qualification requirements, they are liable to be disqualified / debarred / suspended / blacklisted if they have:
 - 3.4.1 Furnished false/ fabricated particulars in the forms, statements and/ annexures submitted in proof of the qualification requirements and/or,
 - 3.4.2 Not turned up for entering into agreement, when called upon with in the time specified in the letter of acceptance,
 - 3.4.3 Record of poor progress such as abandoning the work/supplies, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc.,
 - 3.4.4 Participated in the previous bidding for the same work and had quoted unreasonably high Bid percentage and,
 - 3.4.5 A history of criminal record in which the Bidder is involved if any.
 - 3.4.6 Even while execution of the contract, if found that the contract was awarded to the Contractor based on false/fake certificates of experience, the Contractor will be blacklisted and contractor will be taken over invoking clause-61 of PS to APSS.
 - 3.4.7 History of litigation with the Government during the last five years in which the Bidder is involved.
 - 3.4.8 Bidders should specifically indicate whether their firm has been banned/ blacklisted/debarred by any Government department/undertaking or any power utility for non-performance/malpractice or due to any reason. Bids of bidders who are banned/ blacklisted/debarred will be treated as non-responsive.

3.5 ELIGIBILITY CRITERIA:

The Bidder should quote for all items of the Bid invariably and shall meet the Qualifying Requirements in respect of the following aspects as detailed in Section-VI of this Specification.

- a) Physical Experience in respect of supply of equipment/ material,
- b) Performance of similar material offered,
- c) Financial Turnover,
- d) Submission of Type Test Reports.

Responsibility of correctness of the information submitted in online bid lies with bidder. If any information furnished in the bid is proved to be false at a later date, the bid will not only be rejected but the bidder will be BLACKLISTED.

The bids not complying with the stipulated completion period will be treated as non-responsive.

While being equal or compatible in other aspects preference will be given to those bidders who have experience in erection of above works/supplies similar to that given in the specification or of higher voltages during the last five financial years.

IF A BIDDER QUOTING FOR THE BIDS IS HAVING POOR PERFORMANCE IN THE AND NOT COMMENSURATE WITH THE AGREEMENT IN THE PREVIOUS CONTRACTS, THE BID OF SUCH BIDDER WILL NOT BE CONSIDERED FOR AWARD OF CONTRACT.

4.0 One Bid per Bidder:

Each Bidder shall submit only one Bid. A Bidder who submits more than one Bid will cause dis-qualification of all the Bids submitted by the Bidder.

5.0 Cost of Bidding :

The Bidder shall bear all costs associated with the preparation and submission of his Bid and the Bid inviting authority will in no case be responsible and liable for those costs.

6.0 The pre-bid meeting will be held on the date & time indicated in the NIT, in the office of the bid inviting authority (Refer clause-13 of Section-I: NIT). All the prospective bidders may attend the pre-bid meeting.

* * *

SECTION –II (B) : CHECK LIST

The bidders shall invariably upload/attach the information and records listed in the check list below on **e-procurement platform**, and also confirm by marking Yes or No. The same shall have to be furnished either personally or through courier or by post in the stipulated time, if asked by the Purchaser.

1	Whether scanned copy of Original Bid Security BG / DD uploaded?	Yes / No
2	Whether Transaction Fee is paid electronically or not. The copy of the receipt may be uploaded.	Yes / No
3	Whether supply qualification & performance statements (Form-1 & Form-5) Uploaded	Yes / No
4	Whether all the documents as proof to the pre-Qualification Requirement i.e. 40% quantity of supply in 12 months from the power utilities as called for, are uploaded	Yes / No
5	Whether all the documents pertaining to the two years satisfactory performance, i.e., satisfactory performance certificates from the utilities along with relevant documentary proof with attestation, are uploaded	Yes / No
6	Whether copies of Type Test Certificates uploaded	Yes / No
7	Whether Proof of Turnover signed by Auditors are uploaded	Yes / No
8	Whether Bankers certificate uploaded (Form-10)	Yes / No
9	Whether Guaranteed Technical Particulars (GTP) are uploaded	Yes / No
10	Whether Schedule of Deviations - Technical & Commercial are uploaded	Yes / No
11	Whether 'Declaration Form' uploaded (Form-8)	Yes / No
12	Whether uploaded the undertaking informing that firm has not been banned/black listed/debarred by any Govt. Department / undertaking or any power utility for non-performance or malpractice? (Form-12)	Yes / No
13	Whether uploaded all other forms as per Section-VII of the Bid Specification?	Yes / No

The Bidder shall indicate that all the forms and enclosures indicated in the checklist furnished are compiled with.

SIGNATURE OF THE BIDDER

Designation &

Seal of the company:

SECTION – III: GENERAL TERMS & CONDITIONS OF THE CONTRACT

A. Introduction

1. **Definitions:** In this Contract, the following terms will be interpreted as indicated:
 - (a) "The Contract" means the agreement entered into between the Purchaser and the Supplier, as recorded in the contract Form signed by the Parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
 - (c) "The Materials / equipment" means all of the material/ equipment, machinery, and/or other materials which the Supplier is required to supply to the Purchaser under the Contract.
 - (d) "The Services" means those services ancillary to the supply of the material/ equipment, such as transportation and insurance, and any other incidental Services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
 - (e) "GCC" means the General Terms and Conditions of Contract contained in the section.
 - (f) "The Purchaser" means the organization purchasing the Materials / equipment.
 - (g) Vendor is a supplier for supply of material/ equipment.
 - (h) "The Supplier" means the firm supplying the Materials / equipment and Services under this Contract.
 - (i) "Day" means calendar day.
2. **Applicability:** These General Conditions of contract will apply to the extent that they are not superseded by provisions of Salient features of the Bid.
3.
 - (a) **Standards:** The equipment/material supplied under this Contract will conform to the Standards mentioned in the Technical specifications, and, when no applicable standard is mentioned, the authoritative standards appropriate to the equipment/ material, i.e., BIS, such standards will be the latest. All material will be of the best class and will be capable of satisfactory operation under tropical conditions without distortion or deterioration.
 - (b) **Interchangeability:** All similar material and removable parts of similar equipment will be interchangeable with each other. A specific confirmation of this should be furnished in the bid.
4. **Scope of Work:** The scope of work of this specification covers design, engineering, manufacture, testing, supply & delivery FADS (Free at Destination Stores/ Site) of the equipment/ material described in Section-IV 'Schedule of Requirements' and Section-V 'Technical Specification'.

5. **Eligible Bidders:** Vendors for supply of the equipment/ material listed in section-IV 'Schedule of Requirements' of Bid specification and meeting the Qualification Requirements described in section-VI 'Qualifying Requirements' only need quote. Bids received from firms not meeting the above criteria will not be considered. Any company/vendor/supplier/contractor that is blacklisted/ debarred by any power utility is not eligible to participate in the bidding.

B. THE BIDDING DOCUMENTS:

6. Contents of Bidding Document:

- 6.1 The Material/equipment required, bidding procedures, and contract terms are prescribed in the bidding documents as indicated in the index.
- 6.2 The Bidder is expected to examine all instructions, forms, terms and Technical specifications in the bidding documents. Failure to furnish all the information required as per the bidding documents, or to submit a bid not responsive to the bidding documents in every respect will be at Bidder's risk and may result in the rejection of its Bid.

7. **Clarification of Bidding Documents:** A prospective Bidder requiring any clarification of the bidding documents may notify the Purchaser in writing or by fax at the Purchaser's address. The Purchaser will respond in writing to any request for clarification of the bidding documents, which it receives no later than fifteen (15) days prior to the deadline for the submission of bids. Written copies of Purchaser's response (including an explanation of the query but without identifying the source of inquiry) will be put one-procurement platform/ website of the purchaser.

8. Amendment to Bidding Documents:

- 8.1 At any time prior to the deadline for submission of bids, the Purchaser, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the bidding documents by amendment.
- 8.2 All such amendments also would be made available on the e-procurement platform/ website of TGTRANSCO and such amendments will be binding on the respective Bidders.
- 8.3 In order to allow prospective Bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.

C. PREPARATION OF BIDS

9. **Language of Bid:** The bid prepared by the Bidder including all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, will be in English.

10. Cost Associated with Bidding:

- 10.1 The Bidder will bear all costs associated with the preparation and submission of its bid, and the Purchaser, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 10.2 Bidders have to pay a transaction fee @ 0.03% of ECV (Estimated Contract Value) with a cap of Rs.10,000/- for all works/ supplies with ECV up to Rs.50.00 Crore and Rs.25,000/- for works/supplies with ECV above Rs.50.00 Crore, at the time of bid submission electronically.
- 10.3 Transaction Fee & other charges shall be paid by either Credit Card or Debit Card.
- 10.4 Bidders have to pay 'GST' as levied by Government of India on transaction fee, electronic payment gateway charges.
- 10.5 Successful bidders shall pay another 0.04% of ECV to TSTSL towards e-procurement fund.
- 10.6 Bidders shall obtain digital certificates from TSTSL(Telangana unit).

11. Documents Constituting the Bid:

- (a) The Bid comprises the following:
 - (i) Bid documents and Price Bid [Available online at www.tender.telangana.gov.in]
 - (ii) Qualification information and supporting documents [to be uploaded by the Bidder]
- b) Documentary evidence establishing in accordance with Clause No.19 'Documents Establishing Bidder's Eligibility and Qualifications' that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.
- c) Documentary evidence establishing that the Materials/ equipment and ancillary services to be supplied by the Bidder are as per the Technical specification of the bidding documents.
- d) Bid Security in accordance with Clause No.20 of section-III, and as indicated in the Bid Notification.
- e) GST clearance certificates,
- f) Schedule of Deviations - a) Commercial & b) Technical

All the schedules will be duly filled online with full details as called for in the schedules required for evaluation of bids. Bidders are expected to duly fill in all the schedules and sample forms and upload the same on e-procurement platform as part of the Bid.

- 12. Commercial form:** The bidder will complete the commercial forms appropriately on e-procurement platform.

13. Bid Prices:

- 13.1 The prices quoted shall be **Firm**. Bids will be called for with prices FADS inclusive of packing and forwarding, applicable GST and other legally permissible duties and levies wherever applicable, handling charges to cover the transport by road from destination railway station to site/stores, unloading at site/stores and insurance (transit and storage at site for 45 days).
- 13.2 Even though composite price is given the break-up for GST, freight, insurance, packing and forwarding etc., will be furnished. **Freight & Insurance shall be quoted separately and the same shall not be quoted as 'inclusive'/'zero'.**
- 13.3 It is the responsibility of the Bidder to inform himself of the correct rates of GST leviable on the materials at the time of bidding.
- 13.4 The proforma credit available to the bidder on the purchases of inputs (raw materials) consequent to the introduction of "MODVAT" Scheme may be taken into account while quoting the prices.
- 13.5 The Bidder will indicate in the appropriate Price Schedule the unit prices (where applicable) and total bid price of the Materials / equipment it proposes to supply under the contract. Any alternative offers shall be indicated only in the price schedule.

Prices indicated on the Price Schedule will be entered separately in the following manner.
- 13.6 The price of the Materials / equipment quoted EXWORKS and all applicable GST taxes payable on the finished Materials / equipment with individual breakup for Taxes, packing and forwarding, freight and insurance etc.
- 13.7 In case of bought out materials/equipment the bidders shall quote all inclusive price in basic/ex-works price and can mention 'Not –applicable being bought out item' under GST columns. TGTRANSCO shall pay only for the taxes involving direct transaction between the bidder and TGTRANSCO and not for the transaction between bidder and his sub-vendors.

14. Variable prices & Price Variation basis: Not Applicable.

15. Taxes:

- 15.1 A bidder will be entirely responsible for quoting the correct GST, or levies if any, license fees, etc., for the HSN code of item quoted he has to incur until completion of the contract. For the purpose of evaluation, the bidder should clearly indicate the applicable GST and any other taxes and levies payable in the respective columns provided in the Commercial form on e-procurement platform. Failure to furnish the details as prescribed in the price schedule will be loaded as indicated in the evaluation criteria.
- 15.2 If the rates of statutory levies assumed by the Bidder are less than the actual rates prevailing at the time of bidding, the Purchaser will not be responsible for such errors. If the rates of statutory levies assumed by the Bidder are later proved to be higher than the actual/ correct rates prevailing at the time of bidding, the difference will be passed on to the credit of the Purchaser.

- 15.3 Deemed Export Benefits: This is not applicable for local purchases with TGTRANSCO funds.

16. Statutory Variations:

Any variation up or down in statutory levy or new levies introduced **after tender calling date** under this specification will be to the account of TGTRANSCO provided that in cases where delivery schedule is not adhered to by the supplier and there are upward variation / revision after the agreed delivered date the supplier will bear the impact of such levies and if there is downward variation / revision the TGTRANSCO will be given credit to that extent.

Statutory variation if any allowed, it is allowed only once during delivery period i.e., at the time of delivery of goods at factory".

In case of sub-vendor items, taxes are inclusive in tender price. No statutory variation is applicable.

In cases where the bidder assumes less tax rates and become lowest, upward variation of taxes will not be considered. In case of the bought out items for which the prices are quoted all inclusive of taxes, statutory variation shall not be applicable.

17. **Bid Currencies:** Prices will be quoted in Indian Rupees; and will be paid in Indian Rupees only.
18. **Quantity to quote:** Bidder shall quote for 100% of the bid quantity of item indicated in the "Schedule of Requirements" (Section-IV) of the bid specification on single responsibility basis. Bid offers with less than the prescribed quantity are liable for rejection.

19. Documents Establishing Bidder's Eligibility and Qualifications:

The Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.

The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:

- (a) That the Bidder has the financial, technical, and production capability necessary to perform the contract;
- (b) That the Bidder meets the Qualification criteria listed in Section-VI. In addition the Bidder may furnish full particulars regarding supply of the material in question made so far to TGTRANSCO during the last 5 years and other reputed power utilities.

19.1 Documents Establishing Equipment/ material conformity to Bidding Documents:

The Bidder will furnish as part of its bid, documents establishing conformity to the bidding documents of all Material/ equipment and services, which the Bidder proposes to supply under the Contract. The documentary evidence of conformity of the material/equipment and the services to bidding documents may be in the form of literature, drawings, data, and will consist of:

- (a) A detailed description of the essential technical and performance characteristics of the materials/ equipment;
- (b) The bidder should specifically mention about furnishing the test certificates and a copy of test certificate should be uploaded along with the bid.
- (c) A list giving full particulars, including available sources and current prices of spare parts, special tools etc., necessary for the proper and continuing functioning of the Material/equipment following commencement of the use of the Material/ equipment by the Purchaser; and
- (d) An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsive-ness of the equipment/ material and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.

For purposes of the commentary to be furnished pursuant to above, the Bidder will note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Purchaser in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

20. Bid Security:

- 20.1 The Bidder shall furnish, as part of its bid, a Bid Security specified in the NIT. This amount should be paid by way of a crossed demand draft drawn on any scheduled bank/Nationalised Bank in favour of the "Pay Officer, TGTRANSCO" payable at headquarters of the Purchaser. Alternatively the bidders may furnish a Bank Guarantee (B.G.) in lieu of Demand Draft as per the proforma attached. The scanned copy of crossed DD/BG should invariably uploaded along with the Bid.
- 20.2 The fact of having Bid security by way of Demand Draft/ Bank Guarantee along with the bid should be clearly indicated in the Bid.
- 20.3 Submission of BID SECURITY by way of cheque, cash, money order, call deposit will not be accepted and will be considered as disqualification.
- 20.4 Exemption for payment of Bid security is not allowed in any case. The permanent bid security bank guarantee accepted earlier is deemed to have been withdrawn. Permanent bid security Bank Guarantee is not accepted. Bid security extensions accorded earlier are deemed to have been withdrawn.
- 20.5 Requests for exemption from payment of BID SECURITY will not be entertained on any account.
- 20.6 Any bid not secured as above will be rejected by the Purchaser.

20.7 The successful Bidder's Bid Security original shall be furnished before placing of order and the same will be discharged after award of contract and acceptance of Performance Security.

20.8 The Bid Security may be forfeited:

(a) if a Bidder :

- i) Withdraws its bid or alters its prices during the period of bid validity specified by the Bidder, or
- ii) Does not accept the correction of errors pursuant to Clause No.30.2; or
- iii) Offers post Bid rebates, revisions or deviations in quoted prices and/ or conditions or any such offers which will give a benefit to the Bidder over others will not only be rejected outright but the original Bid itself will get disqualified on this account and the Bidder's BID SECURITY will be forfeited.

(b) In the case of a successful Bidder, if the Bidder fails:

- i) To sign the contract in accordance with Clause No.38.
- ii) To furnish performance security in accordance with Clause No.39.

20.9 Bids without Bid Security will be rejected and bidder will run the risk of being banned.

21. Period of Validity of Bids:

21.1 Bids will remain valid for the period of ninety (90) days from the date of bid opening on e-procurement platform. A bid valid for a shorter period will be rejected.

21.2 In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses there to will be made in writing (or by Fax). The Bid Security Bank Guarantee provided under Clause No.20 shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid Security.

22. Tax Clearance Certificates: Copies of Income Tax, GST certificates and Turnover Tax certificates for the latest period from the appropriate authority will invariably be enclosed to the bid. In the case of proprietary or partnership firm it will be necessary to produce the certificate/ certificates for the proprietor or proprietors and for each of the partners as the case may be. If the Bidder has already produced the certificate during the calendar year in which the bid is made, it will be sufficient, if particulars are given.

23. Service Conditions:

23.1 The equipment/ materials offered will be entirely satisfactory for operation under the climatic conditions indicated below.

- | | | | |
|-----|---------------------------------|---|---------------------------|
| (a) | Location | - | in the state of Telangana |
| (b) | Maximum ambient air temperature | | 55 °C |

- | | | |
|-----|--|--------------|
| (c) | Minimum ambient air temperature | 5 °C |
| (d) | Average daily ambient air temperature | 35 °C |
| (e) | Maximum relative humidity | 74 % |
| (f) | Maximum altitude above mean sea level | 1000 m |
| (g) | Average number of thunder storm days per annum | 40 days |
| (h) | Average number of rainy days / annum | 90 days |
| (i) | Average tropical monsoon condition per annum | 3 months |
| (j) | Average Annual Rain fall | 925 mm |
| (k) | Maximum wind pressure | 200 kg/Sq.m. |
| (l) | Isoceraunic level per annum | 50 days |
| (m) | Seismic level (horizontal & Vertical acceleration) | 0.5g & 0.3 g |
- 23.2 Due consideration will be given to any special devices or attachments put forward by the Bidder which are calculated to enhance the general utility and the safe and efficient operation of the equipment / materials.

24. Format & Signature of Bidder: Clause deleted.

D. Submission of Bids:

25. Procedure for Submission of Bids:

- 25.1 Bids should be in the prescribed form, which can be obtained from ‘e-procurement’ platform from the date of electronic publication up to the time and date indicated in the Bid notice. The intending bidders would be required to enrol themselves on the ‘e-procurement’ market-place www.tender.telangana.gov.in. Those bidders who register themselves in the ‘e-procurement’ market place can download the Bid specification and the Bid schedules free of cost.

The bidder shall authenticate the bid with his digital certificate for submitting the bid electronically on e-procurement platform **and the bids not authenticated by digital certificate of the bidder will not be accepted on the e-procurement platform** following the G.O.Ms.No.6, I.T&C Department, dated 28-02-2005.

- 25.2 Intending bidders can contact office of the Chief Engineer/P&MM, TGTRANSCO, Vidyut Soudha, Hyderabad-500082, for any clarification/ information on any working day during working hours.
- 25.3 The bidders who are desirous of participating in “e-procurement” shall submit their technical bids, price bids etc., in the standard formats prescribed in the Bid documents, displayed at “e” market place. The bidders should invariably upload the statement showing the list of documents etc., in the “e” market place in support of their Technical bids. The bidder should load scanned copies of all relevant certificates. [The bidder shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/ authenticity.](#)

If any bidder uploads the Bid without paying Bid security, he will be blacklisted. Similarly, if any of the certificates, documents etc., furnished by the Bidder are found to be false/fabricated/bogus, the Bidder will be blacklisted and bid security forfeited.

- 25.4 The Bidder will invariably complete the Bid in full.
- 25.5 Telegraphic quotations and quotations by fax will not be entertained under any circumstances. Clarification, amplifications, and / or any other correspondence from the Bidder subsequent to the opening of bid will not be entertained.

The Bidders are advised to ensure that their bids are uploaded in complete shape at the first instance itself.

- 26. Deadline for Submission of Bids:** The Purchaser may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- 27. Modification and Withdrawal of Bids:** No bid may be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified. Withdrawal of a bid during this interval may result in the forfeiture of its Bid Security.

E. Opening and Evaluation of Bids

28. Opening of Bids by the Purchaser

- 28.1 The Purchaser will open all the Pre-Qualification/ Technical bids meeting above criteria. In case the Technical, Financial & Pre-qualification requirements are found to be adequate and as required after the examination, Price Bids will be opened at later date.
- 28.2 If the Technical, Financial & Pre-Qualification requirements are found to be inadequate, the 'Price Bid' of such unqualified Bidders will not be opened.
- 29. Clarification of Bids:** During evaluation of the bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its Bid. The request for clarification and the response will be in writing, and no change in the prices or substance of the bid will be sought, offered, or permitted.

30. Preliminary Examination

- 30.1 The Purchaser will examine the bids to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 30.2 The Purchaser may waive any minor informality, nonconformity, or irregularity in bid which does not constitute a material deviation, provided such waiver doesn't prejudice or affect the relative ranking of any Bidder.
- 30.3 Prior to the detailed evaluation, the Purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one, which conforms to all the terms and conditions

of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Bid Security, and GST will be deemed to be a material deviation. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

- 30.4 If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

31. Evaluation and Comparison of Bids

- 31.1 Bidder shall quote for 100% of the bid quantity indicated in the "Schedule of Requirements" (Section-IV) of the bid specification on single responsibility basis. **Bid offers with less than the prescribed quantity are liable for rejection.**
- 31.2 The Purchaser will evaluate and compare the Technical & Pre-Qualification Bids, which have been determined to be substantially responsive. In case the Technical, Financial & Pre-qualification requirements are found to be adequate and as required after the examination of the Part – I bids, Price Bids of the qualified bidders will be opened subsequently.
- 31.3 a) All the bids, which are opened and considered for evaluation, will be checked for qualification requirements in respect of technical and commercial aspects. Such of the bids, which do not meet the qualification requirements, will not be evaluated further. The bid is to be checked for its conformity to the technical specification. If it does not meet the technical specification, the Bid will not be evaluated further. However, if in the opinion of the purchaser the bidder has offered equipment/material better than the technical specification the same may be considered. The bid may be rejected for the following reasons:
- i) Not in the prescribed form,
 - ii) Insufficient bid security or no proof of bid security,
 - iii) The bidder is a vendor who is banned from further business transactions and the period of ban is still in force.
- (b) Further, the purchaser may enquire from the bidder in writing for any clarification of the bid. The response of the bidder will also be in writing. However no change in the prices or substance of the bid will be sought, offered or permitted.
- (c) Bids will be examined for completeness and for any computational errors.
- (d) Arithmetical errors will be rectified on the following basis.
- i. Where there is a difference between figures and text field, the figures will be final for evaluation since e-procurement software reads amount quoted in the figures column only for evaluation purpose.

- ii. Where there is a discrepancy between the unit price and total price, the unit price will prevail and the total price will be corrected accordingly.
 - iii. If there is a discrepancy between the soft copy and the hard copy, the soft copy will prevail.
 - iv. Failure on the part of the bidder to agree to the above corrections will result in rejection of his offer and forfeiture of his bid security.
- (e) It will be ensured that the required sureties have been furnished and that the documents have been properly signed.
- (f) The purchaser's evaluation of a bid shall take into consideration one or more of the following factors.
- a. Delivery schedule offered in the bid;
 - b. Deviations in payment schedule from that specified in the general terms & conditions of the contract and technical deviations.
 - c. The cost of components, mandatory spare parts, and service;
 - d. The availability of spare parts and after-sales services for the equipment offered in the Bid;
 - e. The projected operating & maintenance costs during the life of the equipment
 - f. The performance and productivity of the material/ equipment offered;
 - g. Other specific criteria indicated in the Bidding documents.
- (g) In addition the Purchaser's evaluation of a bid will take into account the net landed cost of the material at the final destination. For the purpose of evaluation net landed cost is arrived at by adding all elements of the basic price, allowable discount, exclusive of applicable GST & any other levies, packing & forwarding, freight charges, insurance (transit & storage) as quoted by the bidder, interest on advance if any, unloading and stacking at final destination, erection, servicing and other charges as called for.
- (h) In addition any variation up or down in GST/ new levies introduced subsequent to bid opening and before award will be considered.
- (i) The following criteria may be adopted for taxes.
- a. It is the responsibility of the bidder to quote GST correctly without leaving any column unfilled. Where GST is not applicable the bidder should enter 'NA' and if no duty/tax is leviable the same may be entered as 'NIL'. If any column is left blank or filled vaguely like "as applicable", the same will be loaded with the maximum of the other eligible Bids.
 - b. Where there is an exemption of GST, the documentary evidence to that effect will be enclosed by the supplier.
- k) The bidders for supply and works shall invariably possess 'GST' & 'PAN' Numbers" and the same should be furnished for Bids above Rs.5.00 Lakhs.

- l) The insurance charges will be reimbursed limited to documentary proof only and charges shall be quoted in the insurance column. Quoting “inclusive” shall not be permitted.
- m) The Freight charges will be reimbursed limited to documentary proof only and charges shall be quoted in the freight column. Quoting “inclusive/0” shall not be permitted.
- n) Prior to detailed evaluation, the responsiveness of each bid will be determined. A substantially responsive bid is one that conforms to all the terms and conditions of the bidding documents without material deviations. For this purpose superscription, qualification requirement, bid security, validity, delivery, payment terms, price schedule, taxes will be deemed to be the critical provisions and deviations in any one of these items will be deemed to be a material deviation.
- o) The purchaser may waive any minor informality, non-conformity or irregularity in the bid which does not constitute a material deviation, provided such waiver does not affect the relative ranking of any bidder. The purchaser will clearly indicate in the bid specification the methodology for evaluation of bids.
 - i) Bid price, which will include all, costs of manufacture and services at manufacturing place as well as, Transportation to destination stores, packing and forwarding, insurance and GST & other legally permissible levies payable.
 - ii) Delivery schedule offered in the bid.
 - iii) Deviations in payment schedule from that specified in the general terms and conditions of the contract.
 - iv) The cost of components, mandatory spare parts, and service,
 - v) The availability of spare parts and after-sales services for the equipment offered in the Bid;
 - vi) The projected operating and maintenance costs during the life of the equipment;
 - vii) The performance and productivity of the equipment offered; and/or
 - viii) Other specific criteria indicated in the Bid Specification.
 - ix) Cost of recommendatory spares if any indicated in the relevant price schedule will not be considered for bid evaluation.
 - x) However, the bid will be evaluated excluding GST for comparison.

- 31.3 (a) It is the responsibility of the bidder to quote GST correctly without leaving any column unfilled.

Where not applicable, the column may be filled as “NA”. If no tax is leviable, the same may be filled as “NIL”. If any column is left blank, the same is loaded with maximum of other eligible bids.

- (b) Any statutory variations of GST and new levies imposed after opening of the bid and before award of the contract will be taken into consideration.

31.4 A substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations. For this purpose qualification requirement, bid security, validity, delivery, payment terms, price schedule, submission of types test certificates (as per clause 4 section-VI) GST will be deemed to be the critical provisions and deviations in any one of these things will be deemed to be a material deviation.

32. Contacting the Purchaser.

- 32.1 From the time of the bid opening to the time of contract award, if any Bidder wishes to contact the Purchaser on any matter related to the bid, it should do so in writing.
- 32.2 Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison, or contract award will result in the rejection of the Bidder's bid.

F. Award of Contract

33. Post Qualification

- 33.1 In the absence of pre-qualification, the Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily.
- 33.2 The determination will take into account the Bidder's financial, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualification submitted by the Bidder, as well as such other information as the Purchaser deems necessary and appropriate.

34. Award Criteria:

- 34.1 The Purchaser will award the contract to the successful Bidder / Bidders whose bid has /have been determined to be substantially responsive. However it is not binding on TGTRANSCO to accept the lowest or any other Bid. It reserves the right to place orders on different Bidders.
- 34.2 In the opinion of the purchaser in case it is undesirable to depend on one supplier, quantity may be distributed among two or more suppliers adopting the same price.

35. Purchaser's Right to vary Quantities at the time of Award

- 35.1 The Purchaser reserves the right at the time of contract award to increase or decrease the quantity of Materials/ equipment and services originally specified in the 'Schedule of Requirements up to 50% without any change in unit price or other terms and conditions.
- 35.2 The purchaser reserves the right to vary the ordered quantity by $\pm 50\%$ during the execution of the contract.

36. Purchaser's Right to Accept Any Bid and to Reject Any or All Bids

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby

incurring any liability to the affected Bidder or Bidders. The Purchaser will inform the affected bidder/bidders of its reasons.

37. Notification of Award

37.1 Prior to the expiration of the period of bid validity, the Purchaser will notify the Successful Bidder in writing by registered letter or by fax, to be confirmed in writing by registered letter, that its bid has been accepted.

37.2 The notification of award will constitute the formation of the Contract.

37.3 Upon the successful Bidder's furnishing of the performance security, the Purchaser enters into contract with successful Bidder/ Bidders. The Purchaser will notify each unsuccessful Bidder and will discharge its Bid Security.

37.4 The supplier will have to predefine the Bank Account details after receipt of LOI and before entering into contract for electronic transfer of payment.

38. Signing of Contract: The Purchaser notifies the successful Bidder that its bid has been accepted. Within 30 (thirty days) of receipt of notification of award of Contract, the successful Bidder will sign and date the contract. Failure to comply with this stipulation will entail cancellation of the contract besides forfeiture of the bid security.

39. Performance Security:

39.1 Within fifteen (15) days of receipt of notification of contract award, the successful Bidder will furnish to the Purchaser the performance security for an amount 10% of the contract value for proper fulfillment of the contract, which will include the warranty period, and completion of performance obligations including Warranty obligations. The Performance Security will cover 60 days beyond the date of completion of performance obligations including Warranty obligations.

In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for that unit will be extended by a further period of 12 months and the Performance Bank Guarantee for that unit will be extended 60 days over and above the extended warranty period.

39.2 The proceeds of the performance security will be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

39.3 The performance security will be:

(a) A Bank Guarantee issued by State Bank of India or its associate Banks/Public Sector Banks/ Private Banks incorporated in India having net worth of Rs. 5,000 Crore and above acceptable to the Purchaser, in the form provided in the bidding documents.

(b) A banker's cheque or crossed DD or Pay Order payable at the head quarter of the Purchaser in favour of the Purchaser drawn on any scheduled Bank.

39.4 The performance security will be discharged by the Purchaser and returned to the Supplier not later than sixty (60) days after the expiry date.

- 39.5 Failure of the successful Bidder to comply with the above requirement will entail cancellation of the award and forfeiture of the Bid Security.
- 39.6 In case where the performance security is not yet paid, the bid security will be forfeited and the balance to makeup the performance security deposit will be deducted from pending payments any due to the bidder from TGTRANSCO on other orders. In addition the company will also become liable for black listed by TGTRANSCO.

40. Corrupt or Fraudulent Practices:

It is essential that the Purchaser as well as Bidder / supplier / contractor for the purposes of this provision, the terms set forth below as follows:

- I. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution, and
- II. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the purchaser, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the purchaser of the benefits of free and open competition;
- III. Will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- IV. Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at anytime determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing a contract.

41. Use of Contract Documents and Information:

- 41.1 The Supplier will not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, of any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract.

Disclosure to any such employed person will be made in confidence and will extend only so far as may be necessary for purposes of such performance.

- 41.2 The Supplier will not, without the Purchaser's prior written consent, make use of any document or information except for purposes of performing the Contract.
- 41.3 Any document, other than the Contract itself, will remain the property of the Purchaser and will be returned (in all copies) to the Purchaser on completion of the supplier's performance under the Contract if so required by the Purchaser.
- 41.4 The Supplier will permit the Purchaser or his authorized representative to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the Supplier.

- 42. Patent Rights:** The Supplier will indemnify the Purchaser against all third party claims of infringement of patent, trademark, or industrial design rights arising from use of the Materials / equipment or any part thereof.
- 43. Places / Locations:** Particulars of site location to which the equipment / material have to be supplied will be given to successful Bidders. However, it may please be noted that the destinations for supply of materials will be Site/Stores anywhere in the state of TELANGANA.
- 44. Delivery:** Delivery period will be reckoned from the date of Letter of Intent. The delivery quoted will be firm, definite, unconditional and on the basis of receipt of materials at destination in good condition without any bearing on the procurement of raw materials or any similar prerequisites. The commencement date and date of delivery will be indicted. The preferred delivery time, which is the essence of this specification, is indicated in the 'Schedule of Requirements'. Final deliveries are however, subject to confirmation at the time of Contract. Delay in delivery of materials FADS (Free At Destination Store/site) due to non-availability of railway booking, non-allotment of wagons and any such reasons will not be considered. It is the responsibility of the supplier to make alternative arrangements for transporting the materials by road or rail so as to see that the material reaches the destination within the stipulated period. The Purchaser reserves its right to defer the delivery date at any time after orders are placed without any change in the conclusion of contract or other conditions of supply. The delivery period, which will be reckoned from the date of the Contract, will be guaranteed under penalty as in Clause-60.
- 45. Inspections and Tests**
- 45.1 The supplier will keep the Purchaser informed in advance of the time of the starting and the progress of manufacture of equipment/material in its various stages so that arrangement could be made for inspection. The accredited representative of the TGTRANSCO will have access to the supplier's or his subcontractor's work and all other places of manufacture where the material/equipment are being manufactured at any time during working hours for the purpose of inspecting the materials during manufacturing of the materials/ equipment and testing and may select test samples from the materials going into plant and equipment. The supplier will provide all facilities for unrestricted inspection of the works, raw materials, manufacture of all the accessories and for conducting necessary tests and testing of samples at any time including access to drawings and production data at no charge to Purchaser.
- 45.2 The inspection may be carried out by the Purchaser at any stage of manufacture. The supplier shall grant free access to the Purchaser's representative at a reasonable time when the work is in progress.
- 45.3 After completion of manufacture of the equipment/ material, routine tests shall be performed as per relevant standards and requisite copies of test certificates shall be furnished to the purchaser. Various components of the equipment shall be routine tested in accordance with approved standards and manufacture standards.

- 45.4 As soon as the material/ equipment are ready the supplier will duly send intimation to TGTRANSCO by registered post and carry out the tests in the presence of the representative of TGTRANSCO. The Supplier shall give at least 15 days advance intimation to enable the Purchaser to depute his representative for witnessing acceptance and routine tests. All charges in connection with inspection shall be borne by the supplier.
- 45.5 The TGTRANSCO may at its option get the materials inspected by the third party if it feels necessary and all inspection charges in this connection will be borne by the supplier.
- 45.6 The dispatches will be affected only after testing and if the test results comply with the specification. The dispatches will be made only after the inspection by the TGTRANSCO Officer is completed to the TGTRANSCO satisfaction or such inspection is waived by the competent authority and cleared for dispatch.
- 45.7 The inspection and acceptance of any quantity of the equipment/ material under this specification by the Purchaser, shall in no way relieve the Supplier of his obligation of furnishing equipment/ material meeting all the requirements in accordance with the specification, and shall not prevent subsequent rejection if such equipment and material are later found to be defective.
- 45.8 Should any inspected or tested materials/ equipment fail to conform to the specification, the Purchaser may reject the materials and supplier will either replace the rejected materials or make alterations necessary to meet specifications requirements free of costs to the Purchaser.
- 45.9 **Test Reports:**
- a) Four copies of acceptance test reports shall be furnished to the purchaser. One copy will be returned, duly certified by the purchaser and only thereafter shall the materials be dispatched.
 - b) All test reports of tests conducted during manufacture shall be maintained by the Bidder. These shall be produced for verification as and when requested for by the purchaser.
 - c) All records of routine test reports shall be maintained by the Bidder at his works for periodic inspection by the purchaser.
46. **Name Plate:** Equipment should be provided with name plate giving full details of manufacturer, capacities and other details as specified in the relevant ISS or other specification stipulated. The contract number and date and year of supply and the words “TGTRANSCO” must be etched on the name plate.
47. **Packing and Forwarding**
- 47.1 Equipment and material being supplied shall be provided with such packing as required to prevent their damage or deterioration during transit to their final

destination and as indicated in the Contract. The packing will be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights will take into consideration, where appropriate, the remoteness of the Material/ equipment' final destination and the absence of heavy handling facilities at all points in transit.

47.2 The equipment shall be packed in crates suitable for vertical/ horizontal transport, as the case may be, and suitable to withstand handling during transport and outdoor storage. The cabinets shall be covered with plastic film so as to prevent the cabinet from damage during transportation. The plastic film shall be removed at the time of commissioning.

47.3 The Supplier shall be responsible for any damage to the equipment during transit, due to improper and inadequate packing. The easily damageable material shall be carefully packed and marked with the appropriate caution symbols. Wherever necessary, proper arrangement for lifting, such as lifting hooks etc. shall be provided. Any material found short inside the packing cases shall be supplied by Supplier without any extra cost. Replacement of the damaged equipment and material shall not be linked with the settlement of insurance claims. The packages requiring covered storage shall be compulsorily marked.

47.4 The packing, marking, and documentation and outside the packages will comply strictly with such special requirements as will be expressly provided for in the Contract

and in any subsequent instructions ordered by the Purchaser. The supplier will be required to make separate packages for each consignee, each package will be marked on three sides with proper paint/ indelible ink with the following;

1. Contract Number
2. Supplier's name
3. Packing list reference number

47.5 The supplier, whenever dispatches material to a destination should prepare the following information in the form of packing slip in quadruplicate and send the same to the consignee and obtain his acknowledgement. The consignee will return to the supplier one copy of the packing slip with his remarks.

47.6 PACKING SLIP

1. Name of the Supplier
2. Purchase Order reference number
3. Name and address of the consignee
4. Details of the items in the package
5. Bill of material indicating contents of each package.
6. Gross, Net & Tare weights of the items
7. Complete address of the destination
8. Handling and unpacking instructions

- 47.7 The Supplier shall ensure that the packing list and bill of material are approved by the Purchaser and enclosed to dispatches. The Supplier shall arrange for unloading the equipment/ material at destination site/stores at no extra cost.

48. Delivery Documents

- 48.1 Delivery of the materials / equipment will be made by the Supplier in accordance with the terms specified in the contract. The latest test certificates containing the result of the tests as per the relevant ISS or other specification stipulated must be submitted to the Chief Engineer and got approved by him.

- 48.2 The documents for delivery of equipment and material will contain the original and four copies of the following:

- a) Invoice indicating PO Number, goods description, quantity, unit price & total amount,
- b) Delivery Note/Packing List/ Lorry Receipt,
- c) Excise Gate Pass/ Octroi receipts, wherever applicable duly sealed indicating payment mode.
- d) Insurance certificate,
- e) Manufacturer's/Suppliers Guarantee Certificate,
- f) Certificate of Origin,
- g) Any other document evidencing payment of statutory levies (wherever applicable),
- h) The items and quantity so far supplied including the present package,
- i) Supplier's certificate certifying that the defects if any pointed out during inspection have been rectified (3 copies),
- j) Manuals in six sets along with a soft copy.

The Purchaser will receive the above documents soon after the dispatch of materials and if not received, the supplier will be responsible for any consequent expenses.

49. Insurance

- 49.1 The Materials / equipment supplied under the Contract will be fully insured against loss or damage incidental to manufacture or acquisition, transportation and delivery and also storage for 45 days at destination stores/site.

The insurance will be for an amount equal to 100% FADS value of material/ equipment on all risks basis. The policy will have a provision for extension to cover further storage if necessary at destination stores / site at TGTRANSCO cost. The insurance beneficiary shall be TGTRANSCO.

- 49.2 The supplier shall a) Initiate and pursue insurance claim till settlement, and b) Promptly arrange for repair and or replacement of any damaged items in full irrespective of settlement of insurance claim by the under writers, c) All costs because of insurance liabilities covered under the contract will be to supplier's account. The supplier shall provide the Purchaser with a copy of all insurance policies and documents taken out by him in pursuance of 'Contract'. Such copies of documents

shall be submitted to the purchaser immediately after such insurance coverage. The supplier shall also inform the Purchaser in writing at least sixty (60) days in advance, regarding the expiry, cancellation and /or change in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time.

The risks that are to be covered under the insurance shall be comprehensive and shall include but not limited to, the loss or damage in transit, storage, due to theft, pilferage riot, civil commotion, weather conditions, accident of all kinds, fire, flood, war risk (during ocean transportation) bad or rough handling etc., The scope of such insurance shall cover the entire contract value.

- 49.3 All costs on account of insurance liabilities covered under the contract will be on supplier's account and will be deemed to have been included in the bid price.

50. Transportation

- 50.1 The Supplier is required under the Contract to transport and deliver the material/equipment to the specified place of destination i.e. any site or stores in the state of Telangana, transport to such place of destination, including insurance and storage, will be arranged by the Supplier and the related costs will be included in the Contract Price only. The Supplier shall arrange for unloading the equipment/ material at destination site/stores at no extra cost.

- 50.2 The Freight charges will be reimbursed limited to the quoted rates only and charges shall be quoted in the Freight column. Quoting "inclusive/0" shall not be permitted.

- 51. Incidental Services:** The Supplier may be required to provide any or all of the following services at free of cost, including additional services, if any.

- i. Performance or supervision of on-site assembly and/or start-up of the supplied Materials / equipment;**
- ii. Furnishing of tools required for assembly and/or maintenance of the supplied Material/ equipment;**
- iii. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Materials / equipment;**
- iv. Performance or supervision or maintenance and/or repair of the supplied Materials/ equipment, during warranty period, provided that this service will not relieve the Supplier of any warranty obligations under this contract; and**
- v. Training of the Purchaser's personnel, at the Suppliers' plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied material/ equipment.**

- 52. Spare Parts:** The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier.

- (a) Such spare parts as the Purchaser may choose to purchase from the Supplier, provided that this selection will not relieve the supplier of any warranty obligations under the contract; and
- (b) In the event of termination of production of the spare parts:

- (i) Advance notification to the Purchaser of the impending termination.
- (ii) Time to permit the Purchase to procure needed requirement; and following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

53. Warranty/Guarantee:

- 53.1 The supplier will warrant for the satisfactory functioning of the material/ equipment as per specification for a minimum period of 18 months from the check-measurement date in Form-13 i.e. receipt of the material/ equipment at TLC Stores or site in good condition.**
- 53.2 The Supplier shall warrant that the Materials / equipment supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The supplier further warrants that all Materials / equipment supplied under this Contract will have no defect, arising from a design and / or materials as required by the Purchaser's specifications or from any act of omission of the Supplier that may develop under normal use of the supplied Materials / equipment.
- 53.3 All the material will be of the best class and will be capable of satisfactory operation in the tropics under service conditions indicated in clause-23.1 without distortion or deterioration. No welding filling or plugging of defective parts will be permitted, unless otherwise specified, they will conform to the requirements of the appropriate Indian, British or American Standards. (Where a standard specification covering the material in question has not been published, the standards of the American Society for testing of Materials should be followed).
- 53.4 The entire designs and construction will be capable of withstanding the severest stresses likely to occur in actual service and of resisting rough handling during transport.
- 53.5 Unless otherwise specified the warranty period will be 18 months from the date of acceptance of the Materials / equipment. The Supplier will, in addition, comply with the performance guarantees specified under the contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the supplier will at its discretion either, make such changes, modifications, and/or additions to the Materials / equipment or any part thereof as may be necessary in order to attain the contractual guarantees specified in the contract at its own cost and expense and to carry out further performance tests as per the relevant standards.
- 53.6 The Purchaser will promptly notify the supplier in writing of any claims arising under this warranty.
- 53.7 "Upon receipt of such notice, the Supplier will within 30 days repair or replace the defective Materials/ equipment or parts thereof, free of cost at the ultimate destination. The supplier will take over the replaced parts/ materials/ equipment at the time of their replacement. No claim whatsoever will lie on the Purchaser for the replaced parts/ Materials/ equipment thereafter". In the event of any correction of defects or

replacement of defective material during the warranty period, the warranty for that unit will be extended by a further period of 12 months.

53.8 If the Supplier, having been notified, fails to remedy the defect(s) within the above period, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense duly deducting the expenditure from subsequent bills/ bank guarantee and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

53.9 Responsibility of the supplier for loss/ damage:

- a) The supplier is responsible for the safe delivery of the goods in good condition at the destination. He should acquaint himself of the conditions obtaining for handling and transport of the goods to destination and shall include and provide for security and protective packing of the goods so as to avoid damage in transit.
- b) External damages or shortages that are prima-facie the results of rough handling in transit or due to defective packing will be intimated. Internal defects, damages or shortages of any internal parts which cannot ordinarily be detected on a superficial visual examination though due to bad handling in transit or defective packing will be intimated separately.

In either case, the defective or damaged materials should be replaced by the supplier free of cost to the TGTRANSCO. If no steps are taken in this regard, TGTRANSCO may without prejudice to its other rights and remedies cause to be repair or rectify the defective material or replace the same and recover the expenditure incurred there for from the deposit such as Earnest Money, Security and Performance or other monies available with TGTRANSCO or by resorting to legal action.

- c) For the purpose of any legal consideration, the material shall be deemed to pass into TGTRANSCO's ownership only at the final destination where they delivered and accepted.

54. Payment

54.1 100% payment will be arranged within 45 days reckoned from the check measurement date in Form-13 duly transferring the said amount to the bank account of the supplier by the purchaser bank. The supplier will have to predefine the Bank details while entering into contract. The supplier will have to predefine the Bank Account details after receipt of LOI and before entering into contract for electronic transfer of payment. The Bank details once declared cannot be changed.

However payment in advance may be considered by TGTRANSCO after availing a rebate/ discount @ 0.3% per week or part thereof for the advancement depending on the availability of funds.

For availing discount by the contractor/supplier, soon after submission of the document to the Unit Officer, a set of Xerox copies of invoice(s) along with requisition for availing discount should be submitted to the purchaser.

No interest will be payable in case payment is delayed for whatever reason.

54.2 The 100% payment mentioned above is subject to submission of performance security as per clause-39 by the supplier. The bank charges will be made to the account of the

supplier and charges will be recovered from the bill amount per each disbursement on LOA raised by field unit offices.

- 54.3 The supplier should invariably submit test certificates and other documents, the purchaser specifies as soon as dispatch is made so that they can be checked and approved well in advance.
- 54.4 The performance guarantee to be executed in accordance with this specification will be furnished on a stamp paper of value Rs.100/-. The Bank Guarantee will be extended if required suitably in accordance with the provisions of Clause No.39.
- 54.5 If the supplier has received any over payments by mistake or if any amounts are due to the TGTRANSCO due to any other reason, when it is not possible to recover such amounts under the contract resulting out of this specification, the TGTRANSCO reserves the right to collect the same from any other amount and / or Bank Guarantees given by the company due to or with the TGTRANSCO.
- 54.6 When the supplier does not at any time, fulfill his obligations in replacing/ rectifying etc. of the damaged/ defective materials in part or whole promptly to the satisfaction of the TGTRANSCO Officers, the TGTRANSCO reserves the right not to accept the bills against subsequent dispatches made by the supplier and only the supplier will be responsible for any demurrages, wharfages or damage occurring to the consignments so dispatched.
- 54.7 No payments will be made for the supplies which are not in full shape.
- 54.8 Freight & Insurance will only be reimbursed on submission of documentary evidence/ proofs, limiting to the documentary proof only.
55. **Prices:** Prices charged by the Supplier for Material/ equipment delivered and Services performed under the Contract will not vary from the prices quoted by the supplier in its bid, with the exception of any price adjustment authorized in the contract.
56. **Change Orders:** The Purchaser may at any time, by a written order given to the Supplier make changes within the general scope of the Contract in any one or more of the following:
 - (a) Drawings, designs, or specifications, where Materials / equipment to be furnished under the Contract are to be specifically manufactured for the Purchaser;
 - (b) The method of shipment or packing;
 - (c) The place of delivery; and/or
 - (d) The Services to be provided by the Supplier.
57. **Contract Amendments:** No variation in or modification of the terms of the Contract will be made except by written amendment by the Purchaser and accepted by the supplier
58. **Assignment:** The Supplier will not assign, in whole or in part, its obligations to perform under this Contract, except with the Purchaser's prior written consent.

59. Delays in Supplier's Performance:

- 59.1 Delivery of the Materials / equipment will be made by the Supplier in accordance with the time schedule prescribed by the Purchaser in the Schedule of Requirements.
- 59.2 If at any time during performance of the Contract, the Supplier should encounter conditions impeding timely delivery of the Materials / equipment, the Supplier will promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser will evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension will be ratified by the parties by amendment of the Contract.
- 59.3 Except as provided under force majeure clause a delay by the Supplier in the performance of its delivery obligations will render the Supplier liable to the imposition of liquidated damages unless an extension of time is agreed upon without the application of liquidated damages.

60. Penalty for delay in supplies

The time for and the dates for delivery mentioned in the contract will be deemed to be the essence of the contract. Subject to force majeure Clause No.64, if the Supplier fails to deliver any or all of the Materials / equipment or to perform the Services within the period(s) specified in the Contract, the Purchaser will, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5% per week on the undelivered portion subject to a maximum of 5% of the total value of the contract. Once the maximum is reached the Purchaser may consider termination of the contract.

The Check Measurement date in Form-13 i.e., the date of receipt of materials at destination stores in good condition will be taken as the date of delivery. Material/ Equipment which are not of acceptable quality or are not confirming to the specification would be deemed to be not delivered. For penalty, the number of days would be rounded off to the nearest week and penalty calculated accordingly.

The penalty specified above will be levied and would be adjusted against subsequent pending bills.

61. Termination for Default

- 61.1 The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:
- a) If the Supplier fails to deliver any or all of the Materials / equipment within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser.
 - b) If the Supplier fails to perform any other obligation(s) under the Contract.
 - c) If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- 61.2 In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Materials/ equipment or services similar to those undelivered, and the Supplier will be liable to

the Purchaser for any excess costs for such similar Materials/ equipment or Services. However, the Supplier will continue performance of the Contract to the extent not terminated.

62. Termination for Insolvency: The Purchaser may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or not affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

63. Termination for Convenience

63.1 The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination will specify the termination is for the Purchaser's convenience, the extent to which performance of the supplier under the Contract is terminated, and date upon which termination becomes effective.

63.2 However the Materials / equipment that are complete and ready for shipment within thirty (30) days after the supplier's receipt of notice of termination will be accepted by the Purchaser at the Contract terms and prices.

64. Force Majeure

64.1 The Supplier will not be liable for forfeiture of its performance security, penalty for late delivery, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

64.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

64.3 If a Force Majeure situation arises, the supplier will promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier will continue to perform its obligations under the Contract as far as is reasonably practice, and will seek all reasonable alternative means for performance not prevented by the Force Majeure event.

64.4 No price variance will be allowed during the period of force majeure.

65. Settlement of Disputes:

65.1 If any dispute or difference of any kind whatsoever will arise between the Purchaser and the Supplier in connection with or arising out of the Contract, the parties will make every effort to resolve amicably such dispute or difference by mutual consultation.

65.2 If, after thirty (30) days the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to

the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.

65.3 Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause will be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Materials / equipment under the Contract.

65.4 Arbitration proceedings will be conducted in accordance with the following rules of procedure. The dispute resolution mechanism will be as follows:

- (a) In the case of a dispute or difference arising between the Purchaser and a Supplier relating to any matter arising out of or connected with this agreement, such dispute or difference will be settled in accordance with the Arbitration and Conciliation Act, 1996. The Arbitral Tribunal will consist of three Arbitrators one each to be appointed by the Purchaser and the supplier the Third Arbitrator will be chosen by the two Arbitrators so appointed by the parties and will acts as Presiding Arbitrator. In case of failure of the two Arbitrators appointed by the parties to reach upon a consensus within period of 30 days from the appointment of the Arbitrator appointed subsequently, the Presiding Arbitrator will be appointed by The Institution of Engineers (India).
- (b) If one of the Parties fails to appoint its Arbitrator in pursuance of Sub-Clause (a) within 30 days after receipt of the notice of the appointment of its Arbitrator by The Institution of Engineers (India), will appoint the Arbitrator. A certified copy of the order of the Institution of Engineers (India), making such an appointment will be furnished to each of the parties.
- (c) Arbitration Proceedings will be held at Purchaser's Headquarters, and the language of the Arbitration Proceedings and that of all documents and communication between the parties will be English.
- (d) The decision of the majority of Arbitrators will be final and binding upon both parties. The cost and expenses of Arbitration Proceedings will be paid as determined by the Arbitral Tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc., of its proceedings as also the fees and expenses paid to the Arbitrator appointed by such party or on its behalf will be borne by each party itself.
- (e) Where the value of the Contract is Rs.1.00 Crore and below, the disputes or differences arising will be referred to the Sole Arbitrator. The Sole Arbitrator should be appointed by agreement between the parties; failing such agreement, by the appointing authority namely The Institution of Engineers (India).

65.5 Notwithstanding any reference to arbitration herein,

- (a) The parties will continue to perform their respective obligations under the Contract unless they otherwise agree; and
- (b) The Purchaser will pay the Supplier any monies due the Supplier.

66. Jurisdiction: All and any disputes or differences arising out of or touching this contract will be decided by the Courts or Tribunals situated in Purchaser's

Headquarters only i.e. Hyderabad. No suit or other legal proceedings will be instituted elsewhere.

67. Notices:

- 67.1 Any notice given by one party to the other pursuant to this Contract will be sent to the other party in writing or by fax and confirmed in writing to the other party's address.
- 67.2 A notice will be effective when delivered or on the notice's effective date, whichever is later.

- 68. Foreign Exchange:** No Foreign Exchange is available or expected for this purchase. Offers which do not require release of F.E. or procurement of import license by TGTRANSCO only will be considered. Where some of the components are to be imported the manufacturer will have to make their own arrangements for import license etc., and should not look for any assistance from TGTRANSCO.

- 69. Blacklisting/debarring:** The companies which are blacklisted by any other utility and whose promoter's firms or companies were already blacklisted / debarred by any other utility. No work /contract/order will be awarded /placed to companies which are blacklisted by any other utility whose promoter's firms of companies were already blacklisted / debarred by any other utility. Bidders have to furnish a declaration /undertaking in this regard along with the bid. Bids without this declaration are liable for rejection.

- 70.** The clauses in the purchase manual of TGTRANSCO shall govern wherever the specification clauses are silent.

- 71.** If any bidder is silent about any clause of specification it is deemed that the bidder is accepted the same.

- 72.** The discount if any offered shall be indicated in the field provided in e-procurement only. Discount given in anywhere other than the discount field will not be considered for tender evaluation.

- 73.** TGTransco Bank Details:

Beneficiary Name	Pay Officer, TG Transco
Current A/c.No.	62346959315
IFSC Code	SBIN0021027
Bank Name	State Bank of India
Branch & Address	Vidyuth Soudha Branch, Khairatabad, Hyderabad.
Contact Phone No. of the beneficiary	Phone No.23396000, Extn. No.3628 Cell No.8712462130
GST No.	36AAFCT0166J1Z9
TAN No.	HYDT05951B
PAN No.	AAFCT0166J

SECTION – IV
SCHEDULE OF REQUIREMENTS & DELIVERY SCHEDULE

Description of Equipment/ Material	Quantity required	Delivery schedule	Destination
2	3	4	5
Supply of 400KV Lightning Arresters (63 KA) complete with terminal connector etc. as per technical specification.	12 Nos.	To complete the supplies within three months from the date of issue of Letter of Intent.	Any Substation Site/ Stores in Telangana State.

Note:

1. Prices shall be quoted on **Firm** basis.
2. Prices shall be free at destination site/stores anywhere in Telangana State
3. Conditional discounts are not accepted,
4. Freight & Insurance shall invariably be quoted separately and also the same shall not be quoted as '0' (zero) or 'inclusive'.
5. Freight & Insurance will be reimbursed on submission of documentary proofs only.
6. Bidders shall quote for 100% quantity.

Signature of the Bidder:

Name in Capitals:

Designation:

Seal of the company:

Address of the company:

SECTION - V

TECHNICAL SPECIFICATION

1. GENERAL:

1.1. SCOPE (400kV LIGHTNING ARRESTERS):

This Specification provides for the design, engineering, manufacture, assembly, stage testing, inspection and testing before dispatch, packing, forwarding and delivery at site/stores of 400kV Zinc oxide(gapless) Lightning Arresters complete with discharge counter, insulating base and other accessories for 400kV system as specified hereunder.

- 1.2. It is not the intent to specify completely all details of design and construction of the Lightning Arrester. However, the offered equipment shall be atleast conform to design, engineering, workmanship and standards mentioned in clause 2.0 and be capable of performing in continuous commercial operations atleast up to the bidder's guaranteed data and service life. The offered equipment shall be complete with all components necessary for its effective and trouble free operation and interfacing along with specified associated equipment, interlocks, control and protection schemes etc. Material and components not specifically stated in this specification but which are necessary for satisfactory operation of the offered equipment and accessories specified in this specification shall be deemed to be included unless specifically excluded and shall be supplied without any extra cost. The owner will interpret the meanings of drawings and specifications and shall have the power to reject any work or material which in his judgment are not in accordance therewith.
- 1.3. It is intended to install sub-station monitoring and automation systems in the above 400kV SS control rooms. Components/Switches/Modules/Contacts required to be provided for interfacing with the monitoring automation system shall also be the responsibility of the supplier.
- 1.4. The inter pole cable required for interconnections shall be included in scope of the supply of equipment.

1.5.

2. STANDARDS:

The lightning arresters covered in this specification shall conform in general to IEC 60099-4 (1998) or its latest version and the applicable provisions of IS:15086 (2017) except to the extent modified in the specification. All accessories, terminal connectors etc. shall conform to relevant standards as amended to date.

- 2.1 The equipment shall conform to the following standards of latest issue.
 - a) Application Guide for Metal Oxide Lightning Arrester for AC System : IEEE Std.C62-22 1991
 - b) Lightning Arresters : IS:15086 (2017) IEC-60099-4
 - c) Large hollow porcelain for use in Electrical installation : IS:5621

d)	Tests on hollow insulators for use in electrical equipment	:	IEC:60233
e)	Method of HV Testing	:	IS:2071(Part I, II & III)
f)	H.V. Test Techniques	:	IEC-60060, Part 1,2
g)	Method of partial discharge Measurement	:	IS:6209
h)	Partial discharge measurements	:	IEC-60270 (1981) IS:3070(Part-III)
i)	Artificial pollution testing on Lightning Arresters	:	IEC:60099-3(1990) IEC:60815(1996) IEC:60507(1991)
j)	Electromagnetic compatibility (EMC)	:	IEC:61000
k)	Radio Interference test on high-voltage insulators	:	IEC:60437(1997)
l)	Electrical equipment for measurement, control and Laboratory use-EMC requirements	:	IEC:61326(2000)
m)	Recommended practice for hot dip galvanising of Iron and Steel	:	IS:2633
n)	Terminal connectors	:	IS:5561
o)	Precision and semi-precision hexagon bolts, screws, nuts & lock nuts	:	IS:1364
p)	Insulation Coordination	:	IEC 60071-1,2 (P1-1993, P2-1990)

3 CLIMATIC CONDITIONS:

3.1 The Lightning Arresters and accessories shall be suitable for continuous satisfactory operation under climatic conditions listed below.

1) Location	In the State of Telangana
2) Maximum ambient Air Temperature (deg.C)	50
3) Minimum Ambient Air Temperature (deg C)	7.5
4) Average daily ambient air Temperature (deg. C)	35

- | | |
|--|------------|
| 5) Maximum relative humidity (%) | 74 |
| 6) Maximum altitude above mean sea level (Meter s) | 1000 |
| 7) Average annual rainfall (mm) | 925 |
| 8) Maximum wind pressure (kg/sq.mtr) | 200 |
| 9) Isoceraunic level (Days/Year) | 50 |
| 10) Seismic Level (Horizontal/ Vertical Acceleration) | 0.5g /0.3g |
| 11) Moderately Hot and humid tropical climate conducive to rust and fungus growth. | |
| 12) The climatic conditions are prone to wide variation in ambient conditions and equipment offered shall be suitable for installation at any of the stations. | |

All the electrical devices shall be given tropical and fungicidal treatment to enable their satisfactory operation in the above climatic conditions.

4.0 **Technical Parameters of Arrester Housing**

SI.No	Particulars	420kV
a)	Rated voltage	390kV
b)	Impulse withstand voltage	1425kVp
c)	Switching surge withstand voltage (dry and wet)	1050kVp
d)	Power frequency withstand voltage (dry and wet)	630kV
e)	Total creepage distance	10500 mm

5.0 **TECHNICAL PARAMETERS FOR LIGHTNING ARRESTERS:**

The Lightning Arresters shall conform to following technical requirements.

Sl.No.	Particulars	420kV
		System
1	Rated voltage of arrester kV (rms)	390
2	Continuous operating voltage kV (rms) at 50 deg.	303
3	Installation	Out door
4	Type	Station high duty class, gapless type
5	No. of columns	---Single column ----
6	No. of stacking units/ sections	3 or 4
7	Type of mounting	----- Pedastal -----
8	Connection	Phase to ground

Sl.No.	Particulars	420kV
9	Nominal discharge current (8/20 micro sec.) kA	20
10	Long duration discharge class	4
11	Minimum energy handling capacity (kJ/kV of rated voltage of arrester)	12
12	Pressure relief class	A
13	Prospective symmetrical fault current for pressure relief test kA(rms)	63
14	High current impulse test value (4/10 micro sec.) kAp	100
15	Residual voltage (kVp) for	
	a) Lightning impulse current	
	at 5 kA	860
	at 10 kA	900
	b) Switching impulse current	
	at 250A	730 to 780
	at 1 kA	780 to 850
	c) Steep current impulse at nominal discharge current of 10kA	1050
16	Prospective symmetrical fault current	63 kA (rms) for 0.2 sec
17	Maximum PD level; PC	50
18	Seismic acceleration	0.3 g
19	Maximum RIV at 1.1 times phase voltage (micro V)	500
20	Arrester Housing	
	a) One minute power frequency withstand voltage kV(rms)	630
	b) Lightning impulse withstand voltage kVp	1425
	c) Switching impulse withstand voltage kVp	1050
	d) Minimum total creepage distance mm	10500
21	Dynamic over voltage withstand for 3 peaks in kV r.m.s.	
	i) (0.03 sec)	498
	Only for 420kV	
	ii) (0.1 sec)	410
	iii) (1.0 sec)	399
	iv) (10 sec)	389
	v) 100 Sec	382

6.0 **TECHNICAL REQUIREMENTS:**

- 6.1 The lightning arresters shall be of Station high duty class and gap less type.
- 6.2 The lightning arresters shall be adequately designed to withstand specified dynamic over-voltages. The Bidder shall furnish the data for the duration and over-voltage factors which the offered arresters can withstand after absorption of energy equivalent to specified energy discharge class. (Two long duration discharge current impulses).
- 6.3 The lightning arresters shall be capable of discharging over-voltage occurring during switching off loaded transformers, reactors and long lines.
- 6.4 Lightning Arrester housing shall conform to technical requirements in Clause 4.0 & 5.0 of this section.
- 6.5 The lightning arresters shall be capable of discharging energy equivalent to line discharge class 4 of IEC:60099 for 420kV as per clause 6.9 of this specification.
- 6.6 The reference current of the lightning arresters shall be high enough to eliminate the influence of grading and stray capacitance on the measured reference voltage of the arrester units (with designed grading system).
- 6.7 Arresters shall be designed with sufficient cantilever strength to meet stress due to specified wind speed and seismic acceleration.
- 6.8 Arresters shall require no routine maintenance upkeep, or attendance, except as required to remove pollution contaminants.
- 6.9 The Lightning arresters are provided to protect the following equipment whose insulation levels are indicated as under:

Equipment to be protected	Lightning impulse (kVp) for 420kV system	Switching Surge (kVp) for 420kV system
1	2	3
Power transformer	± 1300	± 1050
Instrument transformer	± 1425	± 1050
CB/Isolator Phase to ground	± 1425	± 1050
Across open contacts	$\pm 1425 (-/+ 240)$	$\pm 900 (-/+ 345)$

- 6.10 Guaranteed Technical Particulars of the Lightning Arresters offered shall be furnished in Annexure – I.
- 6.11 The energy handling capability of each rating of Arrester offered , supported by calculations, shall be furnished in the offer.
- 6.12 The Lightning Arresters shall be fitted with pressure relief devices and arc diverting ports and shall be tested as per the requirements of IEC specification for minimum prospective symmetrical fault current as specified in clause 5.0 (15).

- 6.13 The Grading ring on each complete Arrestor for proper stress distribution shall be provided if required for attaining all the relevant technical parameters.

7.0 GENERAL REQUIREMENTS:

- 7.1 The materials and components not specifically stated in this specification but which are necessary for satisfactory operation of the equipment are deemed to be included in the scope of supply unless specifically excluded.
- 7.2 Unless otherwise brought out separately by the Bidder in the schedule of deviations the Lightning Arresters offered shall conform to the specification scrupulously. All deviations from the specification shall be brought out in the schedule of deviations. The discrepancies between the specification and the catalogues or literature submitted as part of the offer shall not be considered as valid deviations unless specifically brought out in the schedule of deviations.
- 7.3 Any deviation which has not been specifically brought out in the schedule of deviations of the Bid Proposal Sheets, shall not be given effect to. The deviations brought out in the Schedule shall be supported by authentic documents, standards and other references.
- 7.4 Each individual unit of Lightning Arrestor shall be hermetically sealed and fully protected against ingress of moisture. The hermetic seal shall be effective for the entire life time of the Arrestor and under the service conditions as specified. The Bidder shall furnish sectional view of the Arrestor, showing details of sealing employed.
- 7.5 The bidder shall furnish in the offer, a sectional view of pressure relief device employed in the Lightning Arresters offered.
- 7.6 The Lightning Arresters shall be suitable for hot line washing.

8.0 CONSTRUCTIONAL FEATURES:

- 8.1 The constructional features of lightning arresters shall be generally in accordance with the requirements stipulated hereunder.
- 8.1.1 The lightning arresters shall be of hermetically sealed units, self supporting construction suitable for vertical mounting on a galvanised horizontal steel structure /steel tubular platform.
- 8.1.2 The non-linear blocks shall be of sintered metal oxide material. These shall be provided in such a way as to obtain robust construction with excellent mechanical electrical properties even after repeated operations.
- 8.1.3 The lightning arresters shall be fitted with pressure relief devices suitable for preventing shattering of porcelain housing in the event of arrester failure.
- 8.1.4 Arresters shall incorporate an anti-contamination feature to prevent arrester failure consequent to uneven voltage gradient across the stack, in event of contamination of the arrester porcelain.

- 8.1.5 A corrosion-resistant nameplate with clearly legible lettering shall be permanently attached to each lightning arrester at an easily visible place. The name plate shall be readily legible from the ground and shall meet the requirements of IEC recommendation.
- 8.1.6 The arrester housing, fittings and accessories and surge monitor shall conform to the requirements stipulated in Clause 10.3 of this section.
- 8.1.7 The arrester assembly shall consist of arrester unit, line terminal, earth terminal, insulating base and other hardware required for installation.
- 8.1.8 The arrester offered shall be suitable for hot line washing. A copy of the instructions for hot line washing shall be furnished with the bid.
- 8.1.9 The manufacturer shall submit data on rejection rate of ZnO blocks during manufacturing/operation for the past three years.
- 8.1.10 The nameplate shall conform the requirements of IEC incorporating the year of manufacture.
- 8.1.11 The heat treatment cycle details along with necessary quality checks used for individual blocks along with insulation layer formed across each block are to be furnished. Metalizing coating thickness for reduced resistance between adjacent discs is to be furnished with additional information schedule of bid proposal sheets along with procedure for checking the same Details of thermal stability test for uniform distribution of current on individual disc is to be furnished.
- 8.2 The constructional features of lightning arrester housing shall be generally in accordance with the requirements stipulated hereunder.
 - 8.2.1 Arrester housing shall be manufactured and tested in accordance with IEC:60233/IS:5621.
 - 8.2.2 Housing insulators shall be manufactured from high quality porcelain. Porcelain used shall be homogenous, free from laminations, cavities and other flaws or imperfections that might affect the mechanical or dielectric quality and shall be thoroughly vitrified and impervious to moisture. The porcelain shall be well vitrified and non-porous.
 - 8.2.3 Glazing of the porcelain shall be uniform brown in colour, free from blisters, burrs and similar other defects. Housing shall incorporate suitable profile preferably of self cleaning type (aerofoil design) meeting with IEC-815/IS:2544 and with required minimum creepage distance in order for arrester to function satisfactorily under specified pollution environment.
 - 8.2.4 The details of the porcelain housing such as height, angle of inclination, shape of petticoats, gap between the petticoats, diameter (ID and OD) etc. shall be indicated in a detailed drawing.
- 8.3 All the necessary flanges, bolts, nuts, clamps etc., required for assembly of complete Arrestor with accessories and mounting on support structure to be supplied by the Purchaser, shall be included in bidder's scope of supply.
- 8.4 The drilling details for mounting the Arrestor on Purchaser's supporting structures shall be supplied by the Supplier.

- 8.5 The minimum permissible separation between the Lightning Arrestor and any earthed object shall be indicated by the Bidder in his offer.

9.0 Galvanization, Nickel Plating etc :

- 9.1 All ferrous parts exposed to atmosphere shall be hot dip galvanized as per IS:2629 as amended from time to time., Tinned copper/ brass lugs shall be used for internal wiring of discharge counter. Screws used for electrical connections shall be either made of brass or nickel plated.
- 9.2 Ground terminal pads and name plate brackets shall be hot dip galvanized.
- 9.3 The material shall be galvanized only after completing all shop operations.

10.0 FITTINGS AND ACCESSORIES:

- 10.1.1 Arresters shall be complete with insulating bases, fasteners for stacking units together discharge counters with leakage current meters and terminal connectors.
- 10.1.2 The end fittings shall be of non-magnetic and corrosion proof material suitable for outdoor installations. All ferrous parts exposed to atmosphere shall be hot dip galvanised as per relevant standard.
- 10.1.3 Grading corona control rings, if necessary shall be provided on each complete arrester pole for proper stress distribution.
- 10.1.4 The terminal connectors shall be suitable for Twin/Quad ACSR conductor or Aluminium tube for horizontal or vertical take off. The terminal pad shall be of high conductivity bronze alloy of copper or aluminum. Copper-alloy terminal pads shall be completely and uniformly hot flowed electro tinned with commercially pure tin to a minimum thickness of 0.0127 mm (0.0005"). The exact size of terminal connectors shall be intimated to the successful bidder.
- 10.1.5 The ground terminal shall be suitable for 100×16 mm GI Flat for connection to grounding system.
- 10.1.6 Ground conductor connections between arresters and discharge counters shall be furnished and shall be insulated and insulator supported suitably as approved by the purchaser to prevent conductor movement.
- 10.2 Discharge counters shall be provided for 400kV Arresters only. The discharge counter shall be provided with milli-ammeter for measuring the leakage current and shall not require any DC or AC Aux. Supply. It shall be suitable for outdoor use. The installation of discharge counter shall not adversely affect the Arrester performance.
- 10.2.1 The discharge counter shall register operation whenever Lightning or any other type of Lightning strikes the Lightning Arrestor.
- 10.2.3 All necessary accessories and earthing connection leads between the bottom of the Arrestor and the discharge counter shall be in the bidder's scope of supply. the

connecting lead between discharge counter and Lightning Arrestor shall be of copper flat of size 25 x 4 mm and minimum of 1.5 metre length. The discharge counter shall be so designed that the readings of discharge recorded by the counter and the readings of the milli-ammeter shall be clearly visible through an inspection window to a person standing on ground. The minimum height of support provided by the purchaser shall be 2.5 m.

10.3 Surge Counter / Discharge Counter:

10.3.1 Self contained discharge counters suitably enclosed for outdoor use. Fully weather proof and sealed for life and requiring no auxiliary or battery supply for operation shall be provided with a suitable cyclo metric counter for each pole of lightning arrester to record the number of discharges through the lightning arrester. The discharge counters shall be capable of counting at least 9999 discharges. It shall not be possible to reset the counter. A leakage current meter with suitable scale range to measure the leakage current of the lightning arrester shall also be provided with the discharge counter. Surge counter comprising discharge counter and leakage current meter shall conform to environment protection corresponding to IP:55.

10.3.2 The material used in the discharge counter shall be such that it can safely withstand discharge current of the lightning arrester.

10.3.3 Following performance is desired from the discharge counter:

- i) The discharge counter shall operate for a minimum lightning impulse current(8/20) of 100amps and a maximum of high current impulse 4/10, 100kA peak (2 application).
- ii) The discharge counter shall operate perfectly if the interval time of multiple lightning strokes is more than 0.1 second.
- iii) The discharge counter shall have negligible effect on the protection level of the lightning arrester.
- iv) Long duration current impulses corresponding to the discharge class of the lightning arrester with which it is to be used.
- v) Normal discharge current corresponding and discharge current of the lightning arrester with which it is to be used.
- vi) The potential across the discharge counter shall be less than 10V (rms.) under normal conditions.

10.3.4 Discharge counter shall be so designed as to be mounted on the supporting structure. The connecting wire used between the discharge counter and the lightning arrester shall be supplied along with the equipment. The surge monitor shall be mounted at a height of 1.5m above ground level and away from direction of pressure release vent.

10.3.5 An inspection window shall also be provided through which the readings can be taken.

10.3.6 The Bidder shall give a detailed description along with block diagrams of the discharge counter.

10.3.7 Functional test reports on discharge counters shall also be submitted along with the tender. The supplier will be responsible for proper functioning of the discharge counters with the lightning arresters. The Bidder shall submit along with the tender test certificates of tests conducted to prove that the discharge counter will register every impulse of more than 100 amps and discharge counter with current meter will have practically no effect on the arrester performance and its residual voltage.

11.0 Name Plate :

- a. The arrestor shall be provided with non-corrosive legible name plate indelibly marked with the following information.
- b. Transmission Corporation of Telangana Limited
- c. Order no.
- d. Manufacturer's name or trade mark and identification no. of the Arrester being supplied.
- e. Rated Voltage.
- f. Maximum Continuous operating voltage.
- g. Type.
- h. Rated Frequency.
- i. Nominal discharge current.
- j. Long Duration discharge class.
- k. Pressure relief current in kA rms.
- l. B.I.L. of the equipment to be protected.
- m. Year of manufacture.

11.1 The Guaranteed Technical Particulars for the material being supplied shall be provided with this bid as specified in the Annexure-I enclosed. The bids received without these particulars will be considered non-responsive.

11.2 The graph for Temporary over voltage(TOV) capability should be submitted along with bid.

11.3 Energy handling capability: Calculation for energy handling capability should be submitted along with bid, for single shot of wave and multiple shots of wave as per IEC-60099-4 : 2014.

11.4 The minimum permissible separation between Lightning Arrestor and any earthed object shall be indicated in the bid.

12.0 **TESTS:**

- 12.1.1 The lightning arrester and the housing must have been type tested and shall be subjected to acceptance and routine tests listed in relevant IS/IEC standards. However in switching surge operating duty test sample shall be preheated to 70 deg.C instead of 60 deg.C prior to application of long duration surges.
- 12.1.2 The equipment/material offered against this tender should have been successfully type tested in line with the specified standards and this Technical Specification. These tests should have been conducted within a period of 10 years prior to the date of opening of the Part-I "Pre-qualification and Technical Bid", subject to no alteration in the design. The Bidder shall furnish 1 (one) copy of the Type test reports with the offer. In case these type tests were carried out earlier to the five years period mentioned above or some type tests were not carried out at all as per the present specification, all the relevant type tests as per relevant standards shall be carried out by the successful Bidder in the presence of Purchaser's representative at the cost of the successful Bidder.
- 12.1.3 If there is any change in the components or design in the equipment since after earlier passing of the Type Test, the Bidder shall bring out in his offer all such changes made in the components, materials, designs, etc. In such case the Bidder shall carry out the type tests at his cost and in presence of the Purchaser's representative.
- 12.1.4 If the equipment/material does not withstand the type test, the equipment/ material supplied till then will be liable for rejection. The supplier, in such an eventuality, shall be allowed to modify the equipment and type test the same again at his cost in the presence of the Purchaser's representative. These type tests shall however be conducted by the Supplier within a reasonable time. After successful passing of the type tests, all the equipment/materials supplied earlier shall be modified in line with the equipment/materials which has successfully passed the type test. In case Supplier fails to carry out the type test within reasonable time or does not agree to carry out the type test at his cost, his equipment/material supplied earlier shall be rejected and order placed shall be cancelled and payment made earlier for these Suppliers shall be recovered by the Purchaser.
- 12.1.5 The type tests should have been either conducted in a recognised institution or laboratory and should have been witnessed by a purchaser or an independent agency. The name(s) of the institutions/Laboratories where the bidder intends to get type testes performed shall be indicated in the bid.
- 12.1.6 The type tests shall include:

I) Tests on metal oxide blocks

- i) Steep Current Impulse Residual Voltage test
- ii) Lightning impulse Residual voltage test
- iii) Switching impulse Residual voltage test
- iv) Long duration current impulse withstand test
- v) Pressure Relief withstand test
- vi) Operating duty test
 - a) - High Current Impulse operating duty test
 - b) - Switching Surge Operating Duty test
 - c) - Accelerated ageing test
 - d) P. F. voltage v/s time characteristic

II) Tests on Arrester with Housing(as applicable)

- i) Lightning Impulse voltage withstand test on insulator (cl. No. 8.2.6)
- ii) P.F. (Wet) voltage withstand test on insulator (cl. 8.2.8)
- iii) Bending test moment test (cl. No. 8.11)
- iv) Heat dissipation behaviour verification of test sample (Cl. 8.6)
- v) Seal leak rate(Cl. 8.13)

vi) **III) Tests on complete Arrester**

- i) Weather aging test (5000 h) (cl. 10.8.14)
- ii) Seismic forces withstand test
- iii) High current short circuit test
- iv) Low current short circuit test
- v) Contamination test
- vi) Temporary over voltage withstand test
- vii) Radio interference voltage test

IV) General

- i) STC on Terminal connector (31.5 kA for 1 sec)
- ii) Degree of Protection test on counter/surge monitor (IP-67)
- iii) Uniformity of Zinc coating for metal parts

Pressure Relief Withstand test shall be conducted at 3 different values of short circuit currents i.e., the rated short circuit current and 2 reduced short circuit currents for each arrester type.

12.1.7 Special Test:

Thermal Stability Test

The lightning arrester shall be opened subsequent to all tests. If inspections of the internal parts reveal evidence of overheating, flashover or parts cracking or breaking, the lightning arrester shall be considered to have failed the test.

12.1.8 The routine/acceptance tests on 100% of equipment offered shall include as minimum:

- a) Measurement of reference voltage as per section 2.35 and 5.2 of IEC 60099. The measured values shall be within the range specified.
- b) Residual voltage at 5kA (8/20us), 10 kA (8/20 us) and 20 kA (8/20us) as per provisions of clause 8.1 (b) of IEC:99-4.
- c) Power losses are measured at 0.8 times rated voltage on each arrester unit.
- d) Check of internal corona made at 1.05 times COV. Each unit is checked to have a steady internal corona level less than 50 pC in a pass/no-pass test.
- e) Tightness check to be made on each unit in pass/no-pass test. Maximum permissible leakage is 0.0001 cc/sec at a pressure difference of 0.1 MPa.
- f) Verticality check on completely assembled lightning arrester as a sample test on each lot.
- g) Lightning Impulse Residual Voltage Test
- h) Partial discharge test
- i) Dimensional Verification
- j) Galvanising Test

- k) Porosity Test
- l) Tests on Surge Monitor

12.2 Copies of certificates of the type and special tests conducted (on same model as offered) according to the IS 15086 (2017) and IEC standards shall be furnished along with the bid failing which the bid is liable for rejection.

12.3 The type & special tests should have been either conducted in a recognised independent institution/laboratory or should have been witnessed by a purchaser or an independent agency.

12.4 **Additional Type Tests:**

The following additional type tests shall be case of 400kV class lightning arrester

- i) Radio interference voltage test (as per IS:8263).
- ii) Seismic withstand test.
- iii) Contamination test (As per ANSI-C62-11-1987).
- iv) Temporary over voltage withstand test.

The bidder shall furnish test procedure for, Additional Type Tests along with the bid and the same shall be got approved by the purchaser.

12.5 **Tests on Surge Monitors:**

The surge monitors shall also be connected in series with the test specimens during residual voltage and current impulse withstand tests to verify efficacy of the same. The surge monitor with current meter shall have practically no effect on protection level and performance of lightning arrester. Additional routine/functional tests with one 100A and 10kA current impulse, (8/20 micro sec.) shall also be performed on the surge monitor. The surge monitor shall conform to IP 67 degree of protection. The provision shall be made to connect the surge monitor to the control room.

12.6 **Tests on Arrester Housing:**

Arrester housing shall be type tested as per IEC 60233/IS:5621. All routine tests shall be conducted on the hollow column insulators as per standards in addition to the following.

- i) Ultrasonic test as a routine test IEC-60383 and IS:4318
- ii) Bending test as acceptance test IS:15086 (2017)
- iii) Pressure test as a routine test
- iv) Burst pressure test as a sample test

13.0 **DRAWINGS:**

13.1 a) Drawing showing general outline of the complete arrester including discharge counters.

b) The detailed dimensional drawing of porcelain housing giving internal and external diameter, thickness height, shed profiles, creepage distance dry arcing distance, name of the manufacturer of the porcelain housing etc.

c) TOV characteristic curve and V-I characteristic curve of ZnO elements/ blocks.

d) Manufacturer of ZnO element.

- 13.2 After receipt of the order, the successful bidder will be required to furnish six prints of the following drawings for approval. The Purchaser shall communicate his comments/approval on the drawings to the Supplier. The Supplier shall modify the drawings and resubmit three copies of the modified drawings for Purchaser's approval within two weeks from the date of Purchaser's comments. After receipt of Purchaser's approval, the Supplier shall within three weeks, submit six printed sets and one soft copy in latest auto cad version of the approved drawings after incorporating all the corrections.
- a) Drawing showing general outline of the complete arresters.
 - b) Drawing showing mounting/installation details with recommended minimum clearances.
 - c) Drawing showing details of pressure relief device.
 - d) Drawing showing details of surge monitor.
 - e) Drawing showing details of terminal connectors, insulating base, grading rings.
 - f) Detailed drawing of mounting structure.
 - g) The detailed dimensional drawing of porcelain housing giving internal and external diameter, thickness height, shed profiles, creepage distance dry arcing distance etc.
 - h) V-t and V-I characteristic curves of ZnO elements/blocks.
 - i) Details of line terminal and ground terminals.
 - j) Details of Galvanising being provided on different ferrous parts.
 - k) The detailed dimensional drawing of porcelain housing such as ID, OD, thickness and insulator details such as height, profile of petticoats, angle of inclination and gap between successive petticoats, total creepage distance etc.,
- 13.3 The Bidder may submit any other drawing considered necessary in addition to the drawings stated above.
- 13.4 The drawings and design as approved shall be submitted by the bidder to all the field officers/engineers of TGTRANSCO.
- 13.5 The manufacturing of the equipment shall be strictly in accordance with the approved drawings and no deviation shall be permitted without the written approval of the Purchaser. All manufacturing and fabrication work in connection with the equipment prior to the approval of the drawing shall be at the Bidder's risk.
- 13.6 Approval of drawings/work by Purchaser shall not relieve the Bidder of his responsibility and liability for ensuring correctness and correct interpretation of the latest revision of applicable standards, rules and codes of practices.
- 13.7 The supplier should within two weeks of placement of order, submit four sets of final versions of all the above said drawings for purchaser's approval. The purchaser shall communicate his approval/comments on the drawings within two weeks from the date of receipt of drawings. The supplier shall if necessary, modify the drawings and resubmit four copies of the modified drawings for purchaser's approval within two weeks from the date of purchaser's comments. The purchaser shall communicate his

approval within two weeks from the date of receipt of the revised drawings. After receipt of purchaser's approval, the supplier shall within three weeks, submit 20 prints and two good quality reproducible of the approved drawings for purchaser's use.

14.0 Instruction Manuals:

Ten copies of the erection, operation and maintenance manuals in English shall be supplied for each type of Lightning Arresters one month prior to dispatch of the equipment.

The manual shall be bond volumes and shall contain all drawings and information required for erection, operation and maintenance of the Lightning Arrester including but not limited to the following particulars:

- i) Marked erection prints identifying the component parts of the Lightning Arrester as shipped with assembly drawings.
- ii) Detailed dimensions and description of all auxiliaries.
- iii) Detailed views of the insulator stacks, metalics, structure, spare parts etc.

15.0 QUALITY ASSURANCE PLAN:

15.1 The bidder shall invariably furnish the following information along with his offer failing which the offer shall be liable for rejection. Information shall be separately given for individual type of equipment offered.

- i) The Structure of organization
- ii) The duties and responsibilities assigned to staff ensuring quality of work
- iii) The system of purchasing, taking delivery and verification of materials
- iv) The system for ensuring quality of workmanship
- v) The quality assurance arrangements shall confirm to the relevant requirement of ISO-9001 or ISO 9002 as applicable.
- vi) Statement giving list of important raw materials, names of sub-supplies for the raw materials, list of standards according to which the raw material are tested, list of tests normally carried out on raw material in the presence of suppliers representative, copies of test certificates.
- vii) Information and copies of test certificates as on (vi) above in respect of bought out items.
- viii) List of manufacturing facilities available.
- ix) Level of automation achieved and list of areas where manual processing exists.
- x) List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspections.
- xi) List of testing equipment available with the bidder for final testing of equipment specified and test plant limitation, if any vis-a-vis the type. Special acceptance and routine tests specified in the relevant standards. These limitations shall be very clearly brought out in "Schedule of Deviations" from the specified test requirements.

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

- i) List of the raw material as well as bought out accessories and the names of sub-suppliers selected from those furnished along with the offer.
- ii) Type test certificates of the raw material and bought out accessories if required by the purchaser.
- iii) Quality Assurance Plan (QAP) with hold points for purchasers inspection. QAP and purchasers hold points shall be discussed between the purchaser and contractor before the QAP is finalized.

15.3 The contractor shall submit the routine test certificates of bought out items and raw material at the time of routine testing that the quality of fully assembled equipment.

15.4 The Quality Assurance Programme shall give a description of the Quality System and Quality Plans with the following details.

- i) Quality System:
 - The Structure of the Organization
 - The duties and responsibilities assigned to staff ensuring quality of work.
 - The system of purchasing, taking delivery of verification of materials.
 - The system of ensuring of quality workmanship.
 - The system of control of documentation.
 - The system of retention of records.
 - The arrangement of contractor internal auditing.
 - A list of Administrator and work procedures required to achieve contractors quality requirements. These procedures shall be made readily available to the purchaser for inspection on request.
- ii) Quality Plans:
 - An outline of the proposed work and program sequence.
 - The structure of contractors organizations for the contract.
 - The duties and responsibilities ensuring quality of work
 - Hold and notification points.
 - Submission of engineering documents required by this specification.
 - The Inspection of the materials and components on request.
 - Reference to contractors work procedures appropriate to each activity.
 - Inspection during fabrication/construction.
 - Final inspection and test.

16.0 TEST REPORTS :

- i) Four copies of acceptance test reports shall be furnished to the Purchaser. One copy will be returned, duly certified by the Purchaser and only thereafter shall the materials be dispatched.
- ii) All records of routine test reports shall be maintained by the Supplier at his works for periodic inspection by the Purchaser.

- iii) All test reports of tests conducted during manufacture shall be maintained by the Supplier. These shall be produced for verification as and when requested for by the Purchaser.

17.0 PACKING & FORWARDING ;

- 17.1 The equipment shall be packed in suitable crates so as to withstand handling during transport and outdoor storage during transit. The Supplier shall be responsible for any damage to the equipment during transit, due to improper and inadequate packing. The easily damageable material shall be carefully packed and marked with the appropriate caution symbols. wherever necessary, proper arrangement for lifting such as lifting hooks etc., shall be provided. Any material found short inside the packing cases shall be supplied by the Supplier without any extra cost.
- 17.2 Each consignment shall be accompanied by a detailed packing list containing the following information :
- a) Name of the consignee.
 - b) Details of consignment
 - c) Destination.
 - d) Total weight of consignment.
 - e) Sign showing upper/lower side of the crate.
 - f) Handling and unpacking instructions.
 - g) Bill of materials indicating contents of each package.
- 17.3 The Supplier shall ensure that the packing list and bill of materials are approved by the Purchaser before despatch.
- 17.4 The material shall be transported within India to the respective destination by Road Transport/ Rail Transport as the case may be at the option of the Purchaser.

18.0 Quantity And Delivery Requirement :

- i) This is set out in Section-IV of this specification.
- ii) The scope of supply shall include a supply of required quantity of bolts, nuts , washers, split pins cotter pins and such other small loose items free of cost.

19.0 Terminal Connectors:

Terminal connectors conforming to IS : 5561 shall be supplied along with the arrestor.

CONSTRUCTION DETAILS:

- (a) Aluminium or aluminium alloy used in the manufacture of terminal connectors shall meet requirements of standards specified herein. Steel bolts and nuts shall be of reputed make.
- (b) Terminal connector shall carry full rated current continuously and its temperature shall not exceed eighty five(85) degrees centigrade.

- (c) The connector shall have six(6) bolts with nuts, check nuts and washers for connection to the conductor. It shall have rating corresponding to those of the equipment or higher and shall be designed most liberally to comply in all respects with temperature rise, resistance, tensile strength and short circuit current withstand capacity tests as specified in IS.
- (d) Connector shall have sufficient mechanical strength and shall completely enclose the conductor and terminal very tightly so that the mechanical stresses set up due to vibration, wind and short circuit current can be withstood. The conductivity of connector shall be high.
- (e) All castings shall be free from blow holes, surface blisters, cracks and cavities. All sharp edges and corners shall be debarred and rounded off.
- (f) No part of the connector shall be less than 10mm thick.
- (g) Size of terminal/conductor for which the connector is suitable and the rated current under site condition shall be punched on the connector body.
- (h) All current carrying parts shall be designed and manufactured to offer the minimum contact resistance.
- (i) Bolts shall be located as close to the conductor as possible and shall be opposite each other. Bolt diameter shall be such as to give the desired clamping and contact pressure.
- (j) A check nut shall be provided over nut on each bolt to void loosening of nuts due to vibration. Steel bolts, nuts, washers and check nuts shall be made of appropriate strength.

(To be filled in by the bidder)

ANNEXURE I
GUARANTEED TECHNICAL PARTICULARS
400kV LIGHTNING ARRESTORS:

Sl. No.	Item	400kV
1	Manufacturer's name and place of manufacture/ country	
2	Manufacturer's type Designation	
3	Applicable standards.	
4	Arrester Class and type	
5	Rated voltage of arrester kV(rms)	
6	Rated frequency Hz	
7	Continuous operating voltage (COV) at ambient temperature kV(rms)	
7	Nominal discharge current (8/20 micro sec.) kA	
8	a) No. of units/ sections (3 or 4)	
	b) Voltage rating of each unit kV(rms)	
	c) Height of longest unit	
9	Long duration discharge class as per IEC	
10	a) Maximum energy dissipation capability (kJ/kV of rated voltage of arrester)	
	b) Power frequency over voltage withstand capability immediately after discharging energy equivalent to the Maximum capability of Arrester for 10 sec. kV(rms)	
11	Continuous current at COV and	
	Ambient temperature:	
	a) Resistive component (mA rms)	
	b) Capacitive component (mA rms)	
	c) Total (mA)	
	Reference voltage and corresponding reference current guaranteed by manufacturer	
	kV(peak)	
	I (peak)	
13	Watt loss per kV at COV (W)	
14	Dynamic over voltage/Temporary power frequency over voltage withstand capability when preheated to 60° C and subjected To high current/line discharge class energy duty	
a)	0.03 sec.	
b)	0.1 sec.	
c)	1.0 sec.	
d)	10 sec.	
e)	100 sec.	
15	Maximum residual voltage for	
	a) Lightning impulse current (8/20 micro sec.) of	
	-5KA kVp	

Sl. No.	Item	400kV
	-10KA kVp	
	-20KA kVp	
	b) Switching impulse current (30-60/100-200 micro sec.)	
	Of	
	-250A kVp	
	-500A kVp	
	-1000A kVp	
	c) Steep current impulse (1/20 micro sec.) at	
	Nominal discharge current kVp	
16	High current impulse (4/10 micro sec.) value kA	
17	Whether pressure relief devices provided YES/NO	
18	Prospective symmetrical fault current kA(rms)	
19	a) High current value employed for pressure relief test	
	b) Low current value employed for pressure relief test	
20	Zno/ Metal oxide discs:	
	a) Country of manufacture	
	b) Size of discs (Height, Diameter & thickness) mm	
	c) Rated voltage of Zno disc	
	d) No. of units/arrester	
	e) How the electrical contact is ensured between blocks	
	f) Medium of heat dissipation from the blocks to the Surrounding	
21	Arrester Housing:	
	a) Name of manufacturer	
	b) Wet power frequency withstand voltage kV(rms)	
	c) Lightning impulse (1.2/50 Micro sec.) withstand Voltage kVp	
	d) Switching impulse withstand	
	e) Total creepage distance, mm	
	f) Dry arcing distance, mm	
	g) Cantilever strength, N-M	
	h) Internal diameter, mm	
	i) Thickness mm	
22	Partial discharge level pC	
23	Radio interference level at 1.1 COV	
24	Total height of arrester, mm	
25	Weight of one complete single phase arrester, Kg.	
26	Surge Monitor:	
	a) Type	
	b) Minimum lightning impulse Current (8/20 micro sec.) to which surge counter will respond successfully	

Sl. No.	Item	400kV
	c) Whether the surge monitor has been successfully Tested for high current Impulses, long duration Current impulse & low Current response test YES/NO	
	d) Scale range of leakage Current meter	
27	a) Recommended protective Distance of Lightning arrester From transformer, m	
	b) Protective distance of LA(m)	
	- Forward	
	- Backward	
	c) minimum permissible distance between LA & any earthed object.	
28	Are LAs are suitable for hot line washing Yes/No	
29	Whether following enclosed with offer:	
a	The energy handling capability of each rating of Arrester offered , supported by calculations.	
b	The data for the duration and over-voltage factors which the offered arresters can withstand after absorption of energy equivalent to specified energy discharge class. (Two long duration discharge current impulses)	
c	Sectional view of the Arrestor, showing details of sealing employed	
d	Sectional view of pressure relief device employed in the Lightning Arresters offered.	
e	A copy of the instructions for hot line washing	
f	The heat treatment cycle details along with necessary quality checks used for individual blocks along with insulation layer formed across each block.	
g	Details of Metalizing coating thickness for reduced resistance between adjacent discs	
h	Details of thermal stability test for uniform distribute of current on individual disc.	
30	Whether following curves/Drawings enclosed with offer:	
	a) Volt time characteristic YES/NO	
	b) Voltage current characteristic of arrester YES/NO	
	c) Type test has been Conducted as per IEC-99-4 YES/NO & IS:5621	
	d) Type test reports submitted along with the offer YES/NO	
	e) Drawing outline Dimensions for installation enclosed. YES/NO	
	f) Drawing of mounting flange Dimension details enclosed. YES/NO	
	g) Drawing of earthing arrangement Provided enclosed. YES/NO	
	h) Details for surge monitor Enclosed YES/NO	
	i) Each arrester unit with sealed Housing to be tested for leakage YES/NO	

Name of firm-----

Signature of bidder-----

SECTION – VI

QUALIFICATION REQUIREMENTS

1. The bidder should be a manufacturer who must have designed, manufactured, tested and supplied to power utilities at least 40% of the tendered quantity of the goods/equipment of same or higher voltage class against quantity indicated in the “Schedule of Requirement” in one continuous period of 12 months in the last five years as on the date of opening of bid and its financial turnover during any one year of the last five years should have been equal or more than 100% value of the estimated contract value.

At least 20% of the similar material offered against quantity as indicated in the ‘Schedule of Requirements’ should be in successful operation since 2 years as on the date of opening of the Bid.

2. The bidder should furnish the information on all past supplies and satisfactory performance in proforma under Form 6 along with documentary evidence in support of the same such as copies of purchase orders, invoices, delivery challans etc.
3. All bids submitted will also include the following information:
 - i. Copies of original documents defining the constitution or legal status, place of registration and principle place of business of the company or firm or partnership, etc.,
 - ii. The bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required equipment within the specified time of completion after meeting all their current commitments.
 - iii. The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the purchaser or his representative for inspection.
 - iv. Reports on financial standing of the Bidder such as profit and loss statement, balance sheets and auditor’s report for the past three years, bankers certificates etc.

4. The bidder shall furnish Type Test Reports. The type tests must have been conducted on the material offered as per the relevant IS in recognized laboratory as per latest revision of the relevant standards applicable and Technical specification and the date of type tests will not be earlier than ten years as on the date of bid opening. The Bids received without type test reports will be treated as Non-Responsive. If any change in design was made latest type tests shall be furnished along with approved drawing.
5. Even though the bidder meets the above qualifying criteria, they are subject to be disqualified if they have...
 - a. made misleading or false representations in the forms, statements and attachments submitted in proof of qualification requirements and / or
 - b. record of poor performance such as not properly completing the contract, inordinate delays in supply completion, litigation history or financial failure etc.
6. Bidders should quote for 100% of the tender quantity indicated in the 'Schedule of Requirements' of Bid specification, on single responsibility basis. Bids with less than the prescribed quantity are liable for rejection.
7. Notwithstanding anything stated above, the purchaser reserves the right to assess bidders' capability and capacity to perform the contract should circumstances warrant such an assessment in the overall interest of the Purchaser.

* * *

SECTION VII

SAMPLE FORMS

1. QUALIFICATION & PERFORMANCE PARTICULARS:

Specification No:	TGPM 11-03/2026		
Material Description: Lightning Arresters	400kV		
I. Qualifying requirements as per the Specification			
Details	Quantity	Unit	
Quantity as per schedule of requirements	Nos.		12
Supply - 40% of the requirement	Nos.		5
Performance - 20% of the requirement	Nos.		2
Turnover – 100 % of quantity quoted	Rs.		22,67,232.00
Type Test Reports	Not earlier than 10 years from date of bid opening		

II. Bidders past supply details to be furnished by the Bidder

Sl No	Particulars	Name of the Purchaser and quantity						Total
		1		2		3		
		Purchaser Name	Quantity	Purchaser Name	Quantity	Purchaser Name	Quantity	
	Quantity supplied during the last five years							
1.	2021							
	Supply Qty							
	Turnover Amount							
2.	2022							
	Supply Qty							
	Turnover Amount							
3	2023							
	Supply Qty							
	Turnover Amount							
4	2024							
	Supply Qty							
	Turnover Amount							
5	2025							
	Supply Qty							
	Turnover Amount							
6	Maximum supply in continuous 12 months period in last 5 years. From To							
7	Performance for similar eqpt. Qty							

8	Year of Type Test Reports enclosed	
---	------------------------------------	--

Note: 1. Documentary evidence in support of the above shall be furnished along with the Bid. Month wise supply details for the above shall also be furnished.

2. If any of the information furnished above is found to be false the firm will be debarred.

3. If the Bidder has supplied to more than three suppliers to meet the qualifying requirement a separate sheet may be enclosed to include the other suppliers and total indicated.

4. This above schedule shall be enclosed to the qualification bid.

Signature of Bidder :

Name in Capitals :

Designation :

Name of the firm :

Seal of the company :

Address of the Company :

Place :

Date:

2. BID SECURITY FORM

To
The Chief Engineer/P&MM,
TGTRANSCO, Vidyut Soudha, Hyderabad – 500082

Whereas (hereinafter called "the Bidder") has submitted its Bid dated (date of submission of bid) for the supply of (name and/or description of the materials/ equipment) (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE (name of bank) having our registered office at. (address of bank) (hereinafter called "the Bank"), are bound unto (name of Purchaser) (hereinafter called "the Purchaser") in the sum of _____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ____ day of ____ 20XX.

THE CONDITIONS of this obligation are:

1. If the Bidder
 - withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
 - does not accept the correction of errors in accordance with the Bid Specification, or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity;
 - (a) fails or refuses to furnish the performance security, in accordance with the Bid Specification.
 - (b) fails or refuses to execute the Contract Form if required; or

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including sixty (60) days after(Specification Date) the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the Bank)

NOTE : This will be executed on a Rs.100/- non-judicial stamp paper issued by a scheduled Bank/Nationalized Bank.

3. MANUFACTURERS' BIDDING AUTHORISATION FORM

No. _____ dated _____

To
The Chief Engineer/P&MM,,
TGTRANSCO, Vidyut Soudha, Hyderabad - 500082

Dear Sir,

BID SPECIFICATION No. TGPMM11-03/2026

We _____ (Name & complete Address) who are established and reputable manufacturers of (Name & descriptions of material/equipment offered) having factory at (address of factory) do hereby authorize _____ (Full name and Designation) whose specimen signature is attested here under to submit the bid, and sign the contract with you for the above materials/equipment manufactured by us against the above Specification Number.

Specimen Signature

Yours faithfully,

(Name)
(Name of manufacturers)

Note : This letter of authority should be on the letterhead of the manufacturer.
It should be included by the Bidder in its bid.

The Bidder's complete postal address and their factory complete postal address with phone and fax numbers shall be invariably mentioned in the above proforma.

4. CONTRACT FORM

THIS AGREEMENT made the. day of. 20XX Between.(Name of Purchaser) of the one part and.(Name of Supplier) of the other part:

WHEREAS the Purchaser invited bids for certain Materials / equipment and ancillary services viz.,
.....(Brief description of Materials / equipment and Services) and has accepted a bid by the Supplier for the supply of those Materials / equipment and services in the sum of.
.....(Contract Price in Words and Figures)(hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions will have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents will be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Bid Form and the Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Purchaser's Notification of Award.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Materials / equipment and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Materials / equipment and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the Materials / equipment and services which will be supplied/ provided by the Supplier are as under:

Sl. No.	Brief Description of Materials / Equipment & services	Quantity to be supplied	Unit Price Rs.	Total Price Rs.	Delivery Terms

TOTAL VALUE: (Rupees _____ only)

DELIVERY SCHEDULE:

IN WITNESS whereof the parties hereto have caused this Agreement to be executed on the day and year first above written.

Signed, Sealed and Delivered by the

said.(for the Purchaser)

in the presence of.

Signed, Sealed and Delivered by the

said.(for the Supplier)

in the presence of.

NOTE: To be executed on a Rs.100/- Non-judicial stamp paper.

5. PERFORMANCE SECURITY FORM

To
The Chief Engineer/P&MM,,
TGTRANSCO, Vidyut Soudha, Hyderabad – 500082

WHEREAS (Name of Supplier)
(hereinafter called "the Supplier") has undertaken, in pursuance of Contract
No..... dated....., 20XX to supply
(Description of Materials/ equipment and Services) (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier will
furnish you with a Bank Guarantee by a recognized Bank for the sum specified therein as
security for compliance with the Supplier's performance obligations in accordance with the
Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf
of the Supplier, up to a total of. (Amount of the Guarantee in Words and
Figures) and we undertake to pay you, upon your first written demand declaring the Supplier
to be in default under the Contract and without cavil or argument, any sum or sums within the
limit of..... (Amount of Guarantee) as aforesaid, without your needing to prove or to
show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the. day of 20XX.

Signature and Seal of Guarantors

.....
Date.20XX.

.....
.....
Address:.....
.....
.....

NOTE : This will be executed on a Rs.100/- non-judicial stamp paper by State Bank of India
or its associated Banks/Nationalised Banks.

6. PROFORMA FOR PERFORMANCE STATEMENT

Bid No. _____

Date of Opening _____

Time _____ Hours

Name of the Firm :

Order placed by (full address of the purchaser)	Order No. & Date	Description and quantity of ordered equipment/ material	Date of Completion of Delivery		Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a Certificate from the Purchaser)
			As per Contract	Actual		
(1)	(2)	(3)	(4)	(5)	(6)	(7)

Note: Proofs of performance shall be furnished along with relevant copies of purchase order & Invoices/DCs etc.

Signature of Bidder :

Name in Capitals :

Designation :

Seal of the company :

Address of the company:

7. DETAILS TO BE FURNISHED BY THE MANUFACTURER

1.	Specification No.	:	TGPMM11-03/2026
2.	Name of the Material	:	
3.	Bidder's vendor Registration No. for this item	:	
4.	Quantity to be procured	:	
5.	Last date and time for submission of Bid	:	
6.	Date and time for opening of Bid	:	
7.	State whether Bid Security is enclosed	:	
8.	Whether willing to furnish performance Security B.G. @ 10 % if order is placed	:	
9.	Whether a local SSI Unit/ Local Unit	:	
10.	Whether TGTRANSCO delivery schedule accepted?	:	
11.	Prices whether variable / Firm if variable ceiling limits	:	
12.	Whether any other tax / duty payable. If so give details and the same is included / not included.	:	
13.	State whether TGTRANSCO terms of payment are accepted.	:	
14.	Quantity offered for supply	:	
15.	State whether 90 days validity offered	:	
16.	Whether sample is enclosed (if specified)	:	
17.	Whether the material / equipment offered conforms to the relevant TGTRANSCO Specification	:	
18.	Whether you have executed orders of the TGTRANSCO previously for these items. (Please give details)	:	
19.	Similar details in respect of supplies made to other utilities	:	
20.	Whether GST clearance certificate enclosed	:	
21.	Whether Income-tax clearance certificate Enclosed.	:	
22.	Furnish the max production capacity per month of your plant for each type of the quoted materials.	:	
23.	Whether TGTRANSCO penalty clause accepted	:	
24.	Whether TGTRANSCO Guarantee clause accepted	:	
25.	HSN Code for the item quoted	:	

8. SCHEDULE OF DEVIATION

A) TECHNICAL

Sl. No.	Requirements / Equipment	Specification Clause No.	Deviations	Remarks

It is hereby conformed that except for deviations mentioned above, the offer conforms to all the other features specified in Technical Specification Section ____ of this Bid Document

Place :

Signature of the Bidder :

Date :

Name :

Business address :

B) COMMERCIAL

Sl. No.	Requirements / Equipment	Specification Clause No.	Deviations	Remarks

It is hereby conformed that except for deviations mentioned above, the offer conforms to all the other features specified in Commercial Specification Section ____ of this Bid Document

Place :

Signature of the Bidder :

Date :

Name :

Business address:

9. DECLARATION FORM

UNDERTAKING TO BE GIVEN BY THE COMPANY / PARTNERSHIP FIRM / CONTRACTOR REGARDING RELATIVES ALONG WITH THE BID

I, _____
representing the Company / Partnership Firm / Contractor responding to the bid invitation by
the TGTRANSCO / TSSPDCL / TSNPDCL vide Specification No. _____
hereby sincerely and solemnly affirm and state as
follows:

(STRIKE OUT THAT WHICH IS NOT APPLICABLE)

- (a) that myself or any of the representatives of my company / firm do not have any
relatives as defined in the appended Annexure in the TGTRANSCO / DISCOM.

OR

- (b) that the following officers / employees of the TGTRANSCO / DISCOM are related to
me and to the representatives of my company / firm and their status in the
TGTRANSCO / DISCOMS is as under:

Sl.No.	Name of the Officer Employee	Designation and Place of working	TGTRANSCO / DISCOM	Relationship
1.				
2.				
3.				
4.				
5.				
6.				

It is certified that the information furnished above is true to the best of my knowledge
and belief. It is hereby undertaken that in the event of any of the above information found to
be false or incorrect at the later dated the TGTRANSCO / DISCOM is entitled to terminate
the contract / agreement entered into besides recovering damages as may be found necessary,
with due notice.

Place:

Signature of the Bidder :

Designation with office seal :

DECLARATION TO BE GIVEN BY THE COMPANY / PARTNERSHIP FIRM / CONTRACTOR AT THE TIME OF ENTERING INTO AGREEMENT WITH TGTRANSCO / DISCOMS:

(STRIKE OUT THAT WHICH IS NOT APPLICABLE)

- (a) I declare that myself or any one of the representative of my company / firm do not have any relatives as defined in the appended annexure in the TGTRANSCO / DISCOM.

OR

- (b) that the following officers / employees of the TGTRANSCO / DISCOM are related to me and to the representatives of my company / firm as mentioned hereunder:

Sl.No.	Name of the Officer Employee	Designation and Place of working	TGTRANSCO / DISCOM	Relationship
1.				
2.				
3.				
4.				
5.				
6.				

It is certified that the information furnished above is true to the best of my knowledge and belief. It is hereby undertaken that in the event of any of the above information found to be false at the later dated the TGTRANSCO / DISCOM is entitled to terminate the contract / agreement entered into besides recovering damages as may be found necessary, with due notice.

Place:

Signature of the Bidder :

Designation with office seal :

LIST OF RELATIVES:

- | | | |
|---------------------------------------|--------------------------------------|-------------------------|
| 1. Father | 14. Daughter's Husband | |
| 2. Mother (including step mother) | 15. Daughter's Son | |
| 3. Son (including step son) | 16. Daughter's Son's Wife | |
| 4. Son's Wife | 17. Daughter's Daughter | |
| 5. Daughter (including step daughter) | 18. Daughter's Daughter's Husband | |
| 6. Father's Father | 19. Brother (including step brother) | |
| 7. Father's Mother | 20. Brother's Wife | |
| 8. Mother's Mother | 21. Sister (including step sister) | |
| 9. Mother's Father | 22. Sister's Husband | |
| 10. Son's son | 23. Son's Wife's Father | } and their
siblings |
| 11. Son's Son's Wife | 24. Son's Wife's Mother | |
| 12. Son's Daughter | 25. Daughter's Husband's Father | |
| 13. Son's Daughter's Husband | 26. Daughter's Husband's Mother | |

10. BANK ACCOUNT DETAILS FOR RTGS

1. Name of the Bank :
2. Name of the Branch :
3. Branch code :
- City
:
- 4.. Account No.
5. MICR No.
6. IFSC No.
7. Income Tax PAN Number :
8. GST Registration Number :
9. Date of GST Registration :
10. Place of GST Registration :

Place:

Signature of the Bidder :

Designation with office seal :

11. BANKERS CERTIFICATE**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that M/s. _____,
having their plant at _____ is our
customers and have satisfactory record of transactions. They are having the credit limits of
Rs. _____ lakhs in our Bank.

Place:

Date:

Signature of the Manager

Name:

Bank address and Seal.

12. UNDERTAKING TO BE GIVEN BY THE COMPANY
REGARDING BLACKLISTING ALONG WITH THE BID

I, _____ representing the Company responding to the bid invitation by the TGTRANSCO vide Bid Specification Number TGPMM11-03/2026 hereby sincerely and solemnly affirm and state as follows:

- (a) We, _____ (Name of Company) or our promoter's firm(s) have not been banned/ black-listed/debarred by any Government department/ undertaking or Power Utility for non-performance or malpractice or due to any reasons.

It is certified that the information furnished above is true to the best of my knowledge and belief. It is hereby undertaken that in the event of any of the above information found to be false or incorrect at the later dated, the TGTRANSCO / DISCOM is entitled to terminate the contract/ agreement entered into besides recovering damages as may be found necessary, with due notice.

Signature of the Authorised Representative

Name :

Designation:

office seal :

Date :

Place: