

TENDER SPECIFICATION

STN-1325/2024

FOR

**33KV 3x400 Sq.mm Heat Shrinkable Straight Through
Jointing Kits**

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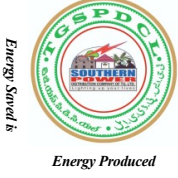
NOTE:

1. Payment terms, Delivery period, Performance Bank Guarantee, Taxes and Duties” should be in line with the terms and conditions of the specification. If any bidder does not meet any one of the conditions, such tender will not be considered. Please note that the conditional offers are also not considered. Hence the bidder shall submit the tender in line with the terms and conditions of the specification.
2. The bidders shall check the website www.tgsouthernpower.org and www.tender.telangana.gov.in for amendments, if any, upto one day prior to the date of tender opening. The amendments shall be binding on the bidders.
3. The purchaser will not be responsible for any damage that may be caused to the samples at any time.
4. The bidder shall furnish required Bid Security amount and validity as per specification. If the bidder fails to furnish bid security amount and bid validity as stipulated in the specification, such tender bid will not be considered for further evaluation.
5. The prospective bidders shall attend the pre-bid meeting (date and time in NIT) for any queries. The discussed queries shall be submitted in the form of a letter during pre bid meeting or within 24 hrs of pre bid meeting. Any new queries received after pre bid meeting are not liable to be considered.
6. The bid evaluation will be carried out based on the documents uploaded through www.tender.telangana.gov.in against this tender.
7. The Bids received with any details pertaining to prices in the offline mode will be liable for rejection.
8. In e-procurement commercial stage, if F&I charges are applicable then mention whether F&I charges entered are exclusive/inclusive of GST in the remarks section. If not mentioned in remarks, F&I charges will be considered as inclusive of GST.
9. EMD Exemption is considered only for Government Firms.

Ph : 040 – 23431033, 23431448 Fax : 040 - 23431034

CHIEF ENGINEER (P&MM)
TGSPDCL

SECTION- I



**SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA
LIMITED
TGSPDCL (erstwhile TSSPDCL)**

e-Procurement Tender Notice (Paper Notification)

TGSPDCL intends to float tender for procurement of (1) 33KV 3x400 Sq.mm Heat Shrinkable Straight Through Jointing Kits (2) 1Ph Capacitor cells 220KVAR, 7.3KV (3) 11KV 3-Way RMUs (Non-Motorized) (4) 3Cx16+25 Sq.mm LT XLPE AB Cable (5) 33KV, 3Cx400 Sq.mm TR-XLPE UG Cable (6) LT Guy Insulators (7) 11KV Guy Insulators (HT) on e-procurement platform.

For further details of each item above, please visit www.tgsouthernpower.org
www.tender.telangana.gov.in.

Phone: 040-23431360, 1033, 1035, 1026

CHIEF ENGINEER (P&MM)

ONLINE VERSION

Tender Notice No: STN- 1325/24

Notice Inviting Tender Details		
S. No	Description	
1	Department Name	TGSPDCL
2	Office	Purchases & Material Management Wing, Corporate Office, TGSPDCL
3	Tender Number	STN- 1325/24
4	Tender Subject	33KV 3x400 Sq.mm Heat Shrinkable Straight Through Jointing Kits
5	Delivery Schedule	The delivery of materials shall commence in 45 days and complete within 3 (THREE) months from the date of receipt of purchase order
6	Tender Type	Open
7	Tender Category	NA
8	Bid Security (INR)	(i) 2% of the Ex-works quoted value (plus with GST @18%) (or) (ii) Exemption letter of Bid Security in case of Govt. firms.
9	Bid Security Payable to	In the form of DD in favour of Pay Officer/TGSPDCL / Hyd or BG from Nationalized/Scheduled Bank as per format 2(a). The validity of the bank guarantee shall be upto bid validity +45 days from the date of tender opening.
10	Processing Fee (INR)	NIL
11	Transaction Fee	<u>Transaction fee:</u> All the participating bidders who submit the bids have to pay an amount @ 0.03% of their final bid value online with a cap of Rs.10,000/- for quoted value of purchase upto Rs.50 crores and Rs.25000/- if the purchase value is above Rs.50 crores & service tax applicable as per GST as levied by Govt. of India on transaction fee through online in favour of M/s. TSTS. The amount payable to M/s. TSTS is non refundable. <u>Corpus Fund:</u> Successful bidder has to pay an amount of 0.04% on quoted value through demand draft in favour of Managing Director, TSTS, Hyderabad towards corpus fund at the time of concluding agreement.
12	Transaction Fee Payable to	TSTS, Hyderabad
13	Date & Time of pre-bid meeting with manufacturer	<u>29.01.2025</u> at 12:00 Hrs.
14	Schedule Sale opening date	<u>24.01.2025</u> from 17:00 Hrs
15	Schedule Sale closing Date	<u>07.02.2025</u> Upto 17:02 Hrs.
16	Bid Submission Closing Date & time	<u>07.02.2025</u> Upto 17:00 Hrs
17	Bid submission	On Line
18	Pre-Qualification & Technical Bid Opening Date (Qualification and Eligibility Stage and Technical Bid Stage)	<u>07.02.2025</u> at 17:30 Hrs.
19	Price Bid Opening Date (Financial Bid Stage)	<u>10.02.2025</u> at 12:00 Hrs
20	Place of Tender Opening	O/o Chief Engineer/P&MM TGSPDCL., 4 th Floor, Corporate Office, Mint Compound, Hyderabad – 500 004.
21	Officer Inviting Bids/ Contact Person	Chief Engineer/P&MM/TGSPDCL/HYDERABAD
22	Address/E-mail id	O/o. Chief Engineer/P&MM TGSPDCL., 4th Floor, Corporate Office, Mint Compound, Hyderabad – 500 004 Email id:cgmpmm@tssouthernpower.com
23	Contact Details/Telephone, Fax	Ph. No. 040-23431448, Fax No. 040-23431034

24	Eligibility Criteria	As per Section VI
25	Procedure for Bid Submission	<p>Bids shall be submitted online on www.eprocurement.gov.in platform</p> <ol style="list-style-type: none"> 1. The participating bidders in the tender should register themselves free of cost on e-procurement platform in the website www.eprocurement.gov.in. 2. Bidders can log-in to e-procurement platform in Secure mode only by signing with the Digital certificates. 3. The bidders who are desirous of participating in e-procurement shall submit their technical bids, price bids as per the standard formats available at the e-market place. 4. The bidders should scan and upload the following documents in support of technical bids. The bidders shall sign on all the statements, documents certificates uploaded by him, owning responsibility for their correctness/authenticity: <ol style="list-style-type: none"> a) Bid Security should be furnished <ol style="list-style-type: none"> i) In the form of DD in favour of Pay Officer/TGSPDCL/Hyderabad (or) Alternatively BG from Nationalized/ Scheduled bank in favor of Chief Engineer/ P&MM/ TGSPDCL/Hyd as per format-II enclosed (or) <ol style="list-style-type: none"> ii) If exempted give details of Bid Security Exemption (in case of Govt. Organization) b) Quantity offered c) Proof of manufacturer-SSI, Department of Industries, Govt. of India Enterprise etc d) Latest "Sales Tax Clearance Certificate" e) Financial Turnover certified by CA for last 5 years f) Details of previous supplies along with PO copies and delivery challan copies for qualification requirement as per tender document. g) Performance Certificates issued by Head of Purchasing Authority (as per spec) h) Copies of relevant purchase order copies mentioned in the performance certificates in support of the above. i) Drawings, Guaranteed Technical Particulars of the product, other relevant documents attached to the bid. j) BIS certificate k) ISO certification l) Type Test Certificates in full shape m) Duly filled and signed proforma as per Format A 6. The rates should be quoted in online only
		<p>7. After uploading the documents the copies of the uploaded statement, certificates, documents, original Demand Drafts in respect of processing fee, testing charges and Bid Security (except the Price bid/offer/break-up of taxes) are to be submitted by the bidder to the Chief Engineer/ P&MM/ TGSPDCL so as to reach before the date and time of opening of the technical bid. Failure to furnish any of the uploaded documents, certificates, before the date and time of opening of technical bid will entail in rejection of the bid. The Department shall not hold any risk on account of postal delay. Similarly, if any of the certificates,</p>

		<p>documents, etc., furnished by the tenderer are found to be false / fabricated / bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the Bid Security will be forfeited.</p> <p>8. The department will not hold any risk and responsibility regulating non-visibility of the scanned and uploaded documents.</p> <p>9. The Documents that are uploaded online on e-market place will only be considered for Technical Bid Evaluation.</p> <p>10. Important Notice to Contractors, Suppliers and Department users</p> <p>(i) In the endeavor to bring total automation of processes in e-Procurement, the Govt. has issued orders vide G.O.Ms.No. 13 dated. 5.7.2006 permitting integration of electronic Payment Gateway of ICICI/HDFC Banks with eProcurement platform, which provides a facility to participating suppliers/ contractors to electronically pay the transaction fee online using their credit cards.</p>
26	Rights reserved with the Department	<p>TGSPDCL reserves the right to accept or reject any or all of the tenders received without assigning any reasons therefore. The TGSPDCL also reserves the right to split the tender and place orders on more than one tenderer at its discretion</p>
27	General Terms and Conditions	As per tender documents.

SECTION-II
SALIENT FEATURES OF THE BID

SUPERSCRPTION ON THE TENDER COVER

Specification No : **STN- 1325/24**
Material : **33KV 3x400 Sq.mm Heat Shrinkable Straight Through Jointin Kits**

Officer to whom the bid will be addressed: **CE/P&MM, Corporate Office/TGSPDCL/Hyd**

Superscription on the bid cover and the outer envelope :

- a. Specification No. : **STN-1325/24**
- b. Due date and time for online submission : **07.02.2025 upto 17:00 Hrs**
- c. Date and time of online opening **07.02.2025 at 17:02 Hrs**
- d. Payment of bid security
 - i) If paid give details: **DD/BG** No. _____ Dt. _____ for Rs. _____
 - ii) If exempted give details
- e. Whether 90 days validity offered(yes/no).
- f. Whether bid is made accepting payment terms Clause....(yes/no).
- g. Whether delivery is as per delivery schedule indicated....(yes/no)
- h. Whether the sample (if specified) has been enclosed/sent...(yes/no)
- i. Whether the quotation is in two parts (Yes/no)

Content of Bidding Documents:

The materials / equipment required, bidding procedures, and contract terms are prescribed in the bidding documents as listed below:

- a. Notice Inviting Bids.
- b. Salient features of the contract.
- c. Standard General terms and conditions of contract.
- d. Standard Technical specification and drawings wherever necessary.
- e. Qualification Requirements.
- f. Schedule of requirements (Delivery Schedule)

SAMPLE FORMS.

- g. Bid Form and Price Schedules
- h. Bid Security Form
 - i. Contract Form
 - ii. Performance Security form
- i. Manufacturers' Authorization form
- j. Performance Statement
- k. Details to be furnished by the Manufacturer (Format-A)
- l. Schedule of Deviations (Technical & Commercial)

The Bidder is expected to examine all instructions, forms, terms and technical specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at Bidder's risk and may result in the rejection of its bid.

Deviations from standard bidding document

- i. General terms and Conditions of Contract
- ii Technical

The above deviations supersede the existing terms of GCC and Technical Specification

CHIEF ENGINEER (P&MM)
TGSPDCL

SECTION-III GENERAL TERMS AND CONDITIONS

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 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 Materials / 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 who has registered with the purchaser for supply of materials/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 Materials / equipment 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 Materials / equipment' 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.

3(b) Interchangeability:

All similar materials 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:

This specification covers design, manufacture, testing and delivery FADS (Free At Destination Stores) of the materials described at Section-IV and Technical Specification at section-V.

5. Eligible Bidders:

The **Manufacturers/Authorized dealers** who have registered themselves with department of industries of State/Central Govt. with full manufacturing and testing facilities for supply of the material/equipment listed in Section No. IV of Bid specification, meeting qualification requirements only need to quote. Bids received from firms not meeting the above criteria will not be considered.

B. THE BIDDING DOCUMENTS

6. Contents of Bidding Document:

6.1 The Materials / equipment required, bidding procedures, and contract terms are prescribed in the bidding documents as listed below:

1. Notice Inviting Bid
2. Technical Specifications
3. Schedule of Requirements (Delivery Schedule)
4. Bid Form and Price Schedules (online only)
5. Salient Features of the Bid
6. General Terms and Conditions of Contract
7. Qualification Requirements
8. Bid Security
9. Performance Security Form
10. Schedule of Deviations

6.2 The Bidder is expected to examine all instructions, forms, terms and Technical specifications in the bidding documents. Failure to furnish all information required by 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 cable (hereinafter, the term cable is deemed to include telex and facsimile) 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 on Website of the purchaser or intimated by mail.

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 website of TGSPDCL and e-procurement website 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:

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.

11. Documents Constituting the Bid:

11.1 The bid prepared by the Bidder will comprise the following components:

- i. Bid Security in accordance with Clause No.19.
- ii. A Bid Form and Price Schedule (only for online submission) completed in accordance with Clause No.12 and 13.
- iii. Documentary evidence establishing in accordance with Clause No.18 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.
- iv. 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; and
- v. Tax clearance certificate
- vi. Schedule of Deviations
 - (a) Commercial
 - (b) Technical

All the Schedules will be duly filled but not necessary in the sheets attached to the specification unless full details required in the schedules are furnished the Bids will be liable for rejection.

12. Bid Form:

The Bidder will complete the Bid form and the appropriate Price Schedule (only for online submission) furnished in the bidding documents, indicating the Materials/equipment to be supplied, a brief description of the Materials / equipment, quantity and prices.

13. Bid Prices:

13.1 The prices quoted shall be **FIRM**. Bids will be called for with prices FADS inclusive of packing and forwarding, 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 and insurance (transit and storage at site for 45 days).

13.2 Even though composite price is given the break-up for all the duties, taxes, freight, insurance, packing and forwarding etc., shall be furnished.

13.3 It is the responsibility of the Bidder to inform himself of the correct rates of duties and taxes 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 shall indicate on the appropriate Price Schedule (online submission) the unit prices (where applicable) and total bid price of the Materials / equipment it proposes to supply under the contract.

Prices indicated on the price schedule (online) shall be entered separately in the following manner.

The price of the Materials / equipment quoted EX-WORKS and all other duties and taxes payable on the finished Materials / equipment with individual breakup for Taxes and Duties, packing and forwarding, freight and insurance etc.

14. Taxes and Duties

- 14.1 A bidder will be entirely responsible for quoting the correct taxes and duties, other local taxes or levies if any, license fees, etc., he has to incur until completion of the contract. For the purpose of evaluation the bidder should clearly indicate the GST and any other levies payable. Failure to furnish the details leads to loading as indicated in the evaluation criteria.
- 14.2 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.
- 14.3. Deemed Export Benefits: This is not applicable for local purchases with TGSPDCL funds.

15. Statutory Variations

Any variation up or down in statutory levy or new levies introduced after signing of the contract under this specification will be to the account of TGSPDCL provided that during delivery schedule. 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 TGSPDCL will be given credit to that extent.

In case of subvendor items Taxes & Duties are inclusive in tender price. No Statutory variation is applicable. Further price variations in respect of sub-vendor items will be considered on tender prices”.

This is allowed only once during delivery period i.e. at the time of delivery of goods at factory”.

16. Bid Currencies:

Prices shall be quoted in Indian Rupees; and will be paid in Indian Rupees Only.

17. Quantity to quote:

Bidder shall quote a minimum quantity of at least 20% of the total quantity indicated in the bid Specification. Offers less than the minimum prescribed are liable for rejection.

18. 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 will 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 IV. In addition the Bidder may furnish full particulars regarding supply of the material in question made so far to TGSPDCL during the last 5 years and other reputed utilities.

18.1 Documents Establishing Materials / equipment Conformity to Bidding Documents.

The Bidder shall furnish as part of its bid, documents establishing conformity to the bidding documents of all Materials / equipment and services, which the Bidder proposes to supply under the Contract.

The documentary evidence of conformity of the Materials / equipment and the services to bidding documents may be in the form of literature, drawings, and 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 specimen form of test certificate should be furnished 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 Materials / equipment following commencement of the use of the Materials / equipment by the Purchaser; and
- (d) an item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the Materials / equipment 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.

19. Bid Security

- 19.1 The Bidder shall furnish, as part of its bid, a Bid Security in the amount of 2% **(plus GST @18%)** of the Total Ex-works value of the materials offered against the bid. This amount should be paid by way of a crossed demand draft drawn on any schedule bank in favour of the Pay Officer, TGSPDCL and payable at headquarters of the Purchaser. The crossed DD should invariably be furnished along with the bids. **Alternatively the bidders may furnish a B.G. in original in lieu of DD as per the proforma attached.** Fax / photocopies of the bid security will not be accepted and will be rejected.
- 19.2 The fact of having enclosed bid security by **DD/BG** along with the bid should be clearly super scribed on the bid envelope.
- 19.3 Submission of BID SECURITY by way of cheque, cash, money order, call deposit will not be accepted and will be considered as disqualification.

19.4 Payment of BID SECURITY will be waived at the discretion of the TGSPDCL in the case of fully owned Government undertaking of the Central or State Government. Such undertakings should immediately apply and obtain exemption before submitting their Bids. They need only refer to the details of such exemption in their Bids. Exemption accorded by any organization other than TGSPDCL will not be considered.

19.5 Requests for exemption from payment of BID SECURITY will not be entertained in any other case.

19.6 Any bid not secured as above will be rejected by the purchaser.

19.7 Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiry of the period of bid validity prescribed by the Purchaser.

19.8 The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract.

19.9 **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 on the Bid Form, 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.37.
- ii. To furnish performance security in accordance with Clause No.38.

19.10 In cases where the Bid Cover Contains superscription of having furnished Bid Security by way of **DD/B.G.** but if the same is not found within, such Bids will be rejected and bidder will run the risk of being banned.

Note : The bidder shall furnish required Bid Security amount and validity (The validity of the bank guarantee shall be upto bid validity +45 days from the date of tender opening) as per specification. If the bidder fails to furnish bid security amount and bid validity as stipulated in the specification, such tender bid will not be considered for further evaluation.

20. Period of Validity of Bids.

20.1 Bids shall remain valid for the period of ninety (90) days from the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period will be rejected.

The bidders should clearly super scribe on the sealed envelopes of the bids about the validity. Bids not containing superscription of validity will be rejected and returned unopened.

- 20.2 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 cable). The Bid Security provided under Clause No.20 will also be suitably extended. A Bidder may refuse the request without forfeiting its Bid Security.

21. Tax Clearance Certificates:

Copies of Income Tax, Sales Tax 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.

22. Service Conditions

- 22.1 The equipment / materials offered will be entirely satisfactory for operation under the climatic conditions indicated below:

(a)	Maximum ambient air temperature (in shade)	45 ⁰ C
(b)	Maximum ambient air temperature (under sun)	50 ⁰ C
(c)	Maximum daily average ambient air temperature	35 ⁰ C
(d)	Maximum yearly average ambient air temperature	30 ⁰ C
(e)	Maximum humidity	100%
(f)	Altitude above M.S.L.	Up to 1000M
(g)	Average No. of thunder storm days per annum	50
(h)	Average No. of dust storm days per annum	Occasional
(i)	Average No. of rainy days / annum	90
(j)	Average Annual Rain fall	925mm
(k)	Normal tropical monsoon period	4 months
(l)	Maximum wind pressure	150 kg/Sq.M.

- 22.2 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.

23. Format and Signing of Bid.

- 23.1 The Bidder shall prepare an original, clearly marking "ORIGINAL BID".
- 23.2 The original of the bid shall be typed and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. The person or persons signing the bid will initial all pages of the bid, except for printed literature.
- 23.3 Any interlineations, erasures, or overwriting will be valid only if they are initialed by the person or persons signing the bid.

D. Submission of Bids

24. Submission, Sealing and Marking of Bids.

- 24.1 The tenderers are required to submit their bids in two parts as under:

- (i) Part-I (a) : Bid Security, Transaction Fee, Technical & Qualification Requirements.

- (b) : Technical Bid shall contain full technical particulars and commercial terms and conditions but without prices. This should not contain any cost information whatsoever.

Part-II : Price Bid – containing Price **(shall be on-line only)**
Bids received with any details pertaining to prices in the offline mode will be liable for rejection.

- (ii) The Part-I of the tender should be furnished in a sealed cover superscribing tender enquiry number, name of material, name of the bidder and date of tender opening.
- (iii) Part-I of the bid will be opened on the due date of tender opening. In case the bidders have been granted Bid Security exemption (clause-20.4), documentary evidence for the same must be furnished. The firms whose Bid Security is not received as specified in the tender document, the price bids will not be opened and their bids will be rejected summarily.
- (iv) The price bids of only those bidders whose technical bids, on examination, are determined to be technically and commercially acceptable and meeting the specified Qualification Criteria will be opened at a later date.

Sealing and Marking of Bids.

24.2 The Bidder shall seal the bid in envelope.

24.3 The envelopes will be addressed to the Purchaser:

24.4 The sealed cover as well as the outer envelope should be super scribed as follows:

- (a) Bid Enquiry No.
- (b) Due date and time for online submission.
- (c) Date and time for online opening.
- (d) Payment of Bid Security
 - (i) If paid, give details: D.D. No. Date:
 - (ii) If not paid or exempted, give details.
- (e) Whether 90 days validity offered.....YES / NO
- (f) Whether the quotation is made accepting Payment terms clause YES/NO
- (g) Whether the delivery is as per delivery schedule indicated.... YES/NO
- (h) Whether the sample (if specified) has been enclosed/ sent... YES/NO
- (i) Whether the bid is quoted in two parts (clause 25.1).... (YES/NO)

24.5 Bids not super scribed as above are liable to be rejected.

24.6 The Bidder shall invariably complete the Bid in full. Details to be furnished by the bidder and Schedule of Prices attached to the specification and enclose the same to the bid without fail. .

24.7 The bids shall be in bound volumes (With the documents in the volume not detachable). All pages of the bid except in-amended printed literature shall be initiated by the person/persons signing the bid. The page number shall be referred in Index. All pages including literature, type test reports of the bid shall be numbered and the page numbers shall be continuous. Soft copy of the technical and commercial bids and designs with drawings shall be given in Floppy disc/ CD also. Summary sheet in the given format on the top of the bid duly signed and sealed by the bidder.

24.8 The time of actual receipt in the office only will count for the acceptance of the bid and either the date of bid, date stamp of post office or date stamp of any other office will not count. The TGSPDCL will not be responsible for any postal or any other transit delays.

- 24.9 Telegraphic quotations 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 sent in complete shape at the first instance itself.
- 24.10 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".
- 24.11 If the outer envelope is not sealed and marked as required above, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.

25. Deadline for Submission of Bids.

- 25.1 Bids together with modifications if any, or other withdrawals must be received by the Purchaser not later than the deadline for submission of bids specified in the Salient features of the Bid.
- 25.2 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.

26. Late Bids

Any bid received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser will be rejected and returned unopened to the Bidder.

26.2 Modification and Withdrawal of Bids.

The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Purchaser prior to the deadline prescribed for submission of bids.

The Bidder's modification or withdrawal notice will be prepared, sealed, marked, and dispatched. A withdrawal notice may also be sent by cable, but followed by a signed confirmation copy, postmarked not later than the deadline for submission 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

27. Opening of Bids by the Purchaser

- 27.1 The Purchaser will open all bids meeting above criteria, at the time, on the date, and at the place specified.
- 27.2 The Bidders' names, bid modifications or withdrawals, discounts, and the presence or absence of requisite Bid Security and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced at the opening.
- 27.3 Bids that are not opened and read out at bid opening will not be considered further for evaluation, irrespective of the circumstances.

28. 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 shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.

29. Preliminary Examination

- 29.1 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 29.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail, and the total price will be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its Bid Security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail. If the supplier does not accept the correction of the errors, its bid will be rejected and its Bid Security may be forfeited.
- 29.3 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.
- 29.4 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 Taxes and Duties 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.
- 29.5 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.

Note : Payment terms, Delivery period, Performance Bank Guarantee, Taxes and Duties” should be in line with the terms and conditions of the specification. If any bidder does not meet any one of the conditions, such tender will not be considered. Please note that the conditional offers are also not considered. Hence the bidder shall submit the tender in line with the terms and conditions of the specification.

30. Evaluation and Comparison of Bids.

- 30.1 The Purchaser will evaluate and compare the bids, which have been determined to be Substantially responsive.
- 30.2 The Purchaser's evaluation of a bid will take into consideration one or more of the following factors

All the bids, which are opened, read out 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:

1. Not in the prescribed form
 2. Insufficient bid security or bid not accompanied by the required bid security or proof of bid security exemption
 3. Bids not properly signed
 4. The bidder is a vendor who is banned from further business transactions and the period of ban is still in force.
 5. Bid received after the due date and time
 6. The bid is through telegram or fax
- 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.
 - Bids will be examined for completeness and for any computational errors.
 - Arithmetical errors will be rectified on the following basis.
 - 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.
 - Where there is a discrepancy between words and figures, the amount in words will prevail.
 - 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.
 - It will be ensured that the required sureties have been furnished and that the documents have been properly signed.
 - The purchaser's evaluation of a bid will 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 and 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 and maintenance costs during the life of the equipment;
 - (f) The performance and productivity of the equipment offered;
 - (g) Other specific criteria indicated in the Bidding documents.

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, excise duty, any other levies, packing & forwarding, freight charges, insurance (transit & storage) as quoted by the bidder, interest on advance if any, erection, servicing and other charges, **inclusive of GST** as called for.

In addition any variation up or down in taxes and duties / new levies introduced subsequent to bid opening and before award will be considered for comparison purposes.

The following criteria may be adopted for taxes and duties for evaluation

- a. It is the responsibility of the bidder to quote all taxes and duties correctly without leaving any column unfilled. Where taxes and duties are not applicable, the bidder should enter “NA”. 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.
- c. The bidders for supply and works shall invariably possess the TIN number and PAN Number for the bids above Rs. 5.00 lakhs and this must be verified before entering into contract.
- 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 and duties will be deemed to be the critical provisions and deviations in any one of these items will be deemed to be a material deviation.

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.

- (a) 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 all Taxes & other legally permissible duties & levies payable.
 - (b) Delivery schedule offered in the bid.
 - (c) Deviations in payment schedule from that specified in the general terms and conditions of the contract.
 - (d) The cost of components, mandatory spare parts, and service
 - (e) The availability of spare parts and after-sales services for the equipment offered in the Bid;
 - (f) The projected operating and maintenance costs during the life of the equipment;
 - (g) The performance and productivity of the equipment offered; and/or
 - (h) Other specific criteria indicated in the Bid Specification.
- 30.3(a) The Purchaser’s evaluation of a bid will take into account the Net Landed Cost of the Material at destination stores inclusive of all taxes and duties and **inclusive of GST** quoted by the Bidder. It is the responsibility of the bidder to quote all Taxes and Duties correctly without leaving any column unfilled. Where not applicable the column may be filled as “NA”. If no duty / 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.
- 30.3(b) Any statutory variations of taxes and duties and new levies imposed after opening of the bid and before award of the contract will be taken into consideration for the purpose of evaluation.

- 30.4 A substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations. For this purpose superscription, qualification requirement, bid security, validity, delivery, payment terms, price schedule, taxes and duties will be deemed to the critical provisions and deviations in any one of these things will be deemed to be a material deviation.

31. Contacting the Purchaser.

- 31.1 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.
- 31.2 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.

32. Post Qualification

- 32.1 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.
- 32.2 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.

33. Award Criteria:

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 TGSPDCL to accept the lowest or any other Bid. It reserves the right to place orders on different Bidders.

34. Purchaser's Right to Vary Quantities at Time of Award

- 34.1 The Purchaser reserves the right at the time of contract award to increase or decrease **upto 50% of** the quantity of Materials / equipment and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
- 34.2 The purchaser reserves the right to vary the ordered quantity by +/- **50%** during the execution of the contract.

35. 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 or any obligation to inform the affected Bidder or Bidders.

36. Notification of Award

- 36.1 Prior to the expiration of the period of bid validity, the Purchaser will notify the Successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.
- 36.2 The notification of award will constitute the formation of the Contract.

- 36.3 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. 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.

38. Performance Security:

- 38.1 Within Fifteen (15) days of receipt of the 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 the corrected / replaced material will be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value will be extended 60 days over and above the extended warranty period.

- 38.2 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.

- 38.3 The performance security will be...
- (a) A bank guarantee issued by a **nationalized bank/Scheduled bank** 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.

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

- 38.5 **Failure of the successful Bidder to comply with the above requirement will entail cancellation of the award and forfeiture of the Bid Security and the balance to make up the performance security deposit will be deducted from pending payments if any due to the tenderer from TGSPDCL on other orders in addition the company will also become liable for being blacklisted by TGSPDCL**

39. 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 any thing 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.

40. Use of Contract Documents and Information:

- 40.1 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.
- 40.2 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.
- 40.3 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.
- 40.4 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.

41. 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.

42. Places / Locations:

Particulars of site location and nearest rail heads to which the equipments / material have to be supplied will be given to successful Bidders.

43. Delivery:

Delivery period will be reckoned from the date of signing of the contract. 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 indicated. The preferred delivery time, which is the essence of this specification, is indicated in the schedule. Final deliveries are however, subject to confirmation at the time of Contract. Delay in delivery of materials FADS – (Free At Destination Stores) 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 other conditions supply. The delivery period, which will be reckoned from the date of the Contract, will be guaranteed under penalty as in Clause 60.

44. Inspections and Tests

- (i) The supplier will keep the Purchaser informed in advance of the time of the starting and the progress of manufacture of equipment in its various stages so that arrangement could be made for inspection. The accredited representative of the TGSPDCL will have access to the supplier's or his subcontractor's work 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 the facilities for testing such samples at any time including access to drawings and production data at no charge to Purchaser. As soon as the materials are ready the supplier will duly send intimation to TGSPDCL by Registered Post and carry out the tests in the presence of representative of the TGSPDCL.
- (ii) The TGSPDCL 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 TGSPDCL. In case of materials not of acceptable quality or not conforming to the specification, the materials will be rejected. You have to re-offer the material for inspection. In such a case the 2nd inspection charges are to the suppliers account. In case the materials are rejected in the 2nd inspection also, the TGSPDCL reserves the right to cancel the order.
- (iii) The dispatches will be affected only if the test results comply with the specification. The dispatches will be made only after the inspection by the TGSPDCL Officer is completed to the TGSPDCL satisfaction or such inspection is waived by the competent authority.
- (iv) The acceptance of any quantity of materials will in no way relieve the supplier of its responsibility for meeting all the requirements of this specification and will not prevent subsequent rejection if such materials are later found to be defective.
- (v) The supplier will give 15 days advance intimation to enable the Purchaser to depute his representative for witnessing the acceptance and routine tests.
- (vi) 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.
- (vii) In the case of transformers, instrument transformers and meters, inspection will be conducted every year, for the first 5 years on a 2% sample of the quantities supplied. Samples will be collected at random to establish that the guaranteed technical parameters are as per the submitted bid by the supplier. In the case of non-adherence, the purchaser may take suitable action on the supplier including cancellation of vendor registration and banning further dealings, depending on the gravity of the deviation. These random inspections may be entrusted to a third party.
- (viii) Inspection not carried out due to non-readiness of the material even after contacting / confirmed over phone from the supplier about availability of material and physical verification at the supplier premises, the charges @ 0.21% of Ex-works price of material offered for inspection (inclusive of service tax and all other taxes & duties, travelling expenses, boarding and lodging charges at the place of inspection and all incidental charges) shall be paid by supplier subject to a maximum of Rs. 10,000.00 .

45. Name Plate:

Equipment should be provided with name plate giving full details of manufacture, capacities and other details as specified in the relevant ISS or other specification stipulated. The contract No. and date and year of supply and the words "TGSPDCL" must be etched on the name plate.

46. Packing

46.1 The Supplier will provide such packing of the Materials / equipment as is required to prevent their damage or deterioration during transit to their final destination, 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 Materials / equipment' final destination and the absence of heavy handling facilities at all points in transit.

46.2 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

46.3 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. The proforma of packing slip will be as follows:

PACKING SLIP

1. Contract No. & Date.
2. Quantity allotted to the stores and rate applicable.
3. Quantity so far supplied to the stores and the rate applied.
4. Quantity now supplied and the rate applied.
5. Total quantity supplied under the Contract with rates applied.
6. Programme for supplying the balance quantity to the Stores.

47. Delivery Documents

47.1 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 (P&MM) and got approved by him.

47.2 Documents to be submitted by the Supplier are specified as under...

- (i) Insurance certificate;
- (ii) Supplier's certificate certifying that the defects if any pointed out during inspection have been rectified (3 copies).
- (iii) Manuals in Six sets and one set of reproducible drawings.

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.

48. Insurance

- 48.1 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.
- 48.2 The bidder 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 the '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.

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

49. Transportation

The Supplier is required under the Contract to transport the Materials / equipment to a specified place of destination defined as normally the district stores, 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.

50. Incidental Services

The Supplier may be required to provide any or all of the following services, including additional services, if any.

- (a) Performance or supervision of on-site assembly and/or start-up of the supplied Materials / equipment;
- (b) Furnishing of tools required for assembly and/or maintenance of the supplied Materials / equipment;
- (c) Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Materials / equipment;
- (d) 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
- (e) 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 Materials / equipment.

51. 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 election 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:
- (c) Advance notification to the Purchaser of the impending termination.
- (d) Time to permit the Purchaser 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.

52. Warranty

- 52.1 The supplier will warrant for the satisfactory functioning of the material/equipment as per specification for a minimum period of **3 Years** from the date of receipt of the material/equipment in good condition.
- 52.2 The Supplier warrants 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 the special guarantee sought in technical specification. 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.
- 52.3 All the materials 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).
- 52.4 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.
- 52.5 Unless otherwise specified the warranty period will be **3 Years** 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.
- 52.6 The Purchaser will promptly notify the supplier in writing of any claims arising under this warranty.
- 52.7 "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 the corrected/replaced material will be extended to a further period of 12 months.

- 52.8 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. Payment

- 53.1 “100% payment will be arranged on or after 30 days from the date receipt of material/equipment at the destination/stores (i.e.103 entry in SAP module) 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 for electronic transfer of payments.

Note:

- i) The date of delivery would be the date on which the stores officer certifies the receipt of materials at stores in good condition 103 entry in SAP module in respective of the date of check measurement.
- ii) Form 13 shall be issued subject to material taken into stock in good condition (i.e., 105 entry in SAP module).
- iii) The supplier should invariably submit test certificates as soon as despatch is made so that the test certificates can be checked up and approved well before it becomes due for payment. Routine Test Certificates of the entire lot shall be submitted to the Consignee.
- iv) The performance guarantee to be executed in accordance with this specification shall be furnished on a stamp value of Rs.100/- The performance guarantee shall be from any Nationalized/Scheduled Bank. Performance Guarantee to the extent of 10% value of purchase order valid upto 2 months over and above the guarantee period to draw 100% payment.

The performance guarantee has to be extended suitably by you in accordance with the guarantee clause, so that the last consignment against the order is covered by the guarantee.
- v) If you have received any over payments by mistake or if any amounts are due to the TGSPDCL due to any other reason, when it is not possible to recover such amounts under the contract resulting out of the subject specification, the TGSPDCL reserves the right to collect the same from any other amounts and/or bank guarantee given by you due to or with the TGSPDCL.
- vi) When you do not at any time, fulfill your obligations in replacing / rectifying etc., of the damaged/ defective materials in part or whole promptly to the satisfaction of the TGSPDCL officers, the TGSPDCL reserves the right not to accept the bills against subsequent despatches made by the supplier and only the supplier will be responsible for any demurrages, wharfages or damages occurring to the consignment so despatched.

- 53.2 The 100% payment mentioned above is subject to on submission of performance security as per Clause-39 by the supplier.

- 53.3 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.

- 53.4 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.
- 53.5 If the supplier has received any over payments by mistake or if any amounts are due to the TGSPDCL due to any other reason, when it is not possible to recover such amounts under the contract resulting out of this specification, the TGSPDCL reserves the right to collect the same from any other amount and / or Bank Guarantees given by the company due to or with the TGSPDCL.
- 53.6 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 TGSPDCL Officers, the TGSPDCL 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. Prices

Prices charged by the Supplier for Materials / 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.

55. 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.

56. 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.

57. 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.

58. Delays in Supplier's Performance

- 58.1 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.
- 58.2 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.

- 58.3 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.

59. Penalty for delay in supplies

The delivery of materials as per the agreed schedule of delivery is the essence of the contract and no extension of the time for delivery would be allowed except under recognized force majeure conditions.

For supplies made beyond the agreed delivery schedule, penalty shall be levied for an amount of equivalent to ½ % of the ex-works value of the material not delivered within the prescribed time limit for every week of delay or part thereof subject to a maximum of 5% of cost of the undelivered portion within scheduled time.

The date of certified receipt of material at destination stores in good condition will be taken as the date of delivery. For calculation of penalty, the date of receipt (i.e., 103 entry in SAP module) of material at destination stores is the "Date of Delivery" subject to the condition that, the materials is received in good condition. For penalty, the number of days would be rounded off to the nearest week and penalty calculated accordingly.

Any variation up or down in Excise Duty, or Sales Tax or other statutory levies, or new levies introduced after placing of the order, under this specification, shall be to the TGSPDCL's account, provided that, the delivery schedules are adhered to by the supplier. In case, if there are increase in excise duty or sales tax or other statutory levies or new levies after the agreed delivery dates, the supplier shall bear the impact of these levies and if there is downward variation/revision TGSPDCL shall be given credit to that extent.

In case you do not adhere to the delivery schedule the TGSPDCL reserves the right to purchase the balance quantity from the open market and recover expenditure incurred from you. This is in addition to the right of the TGSPDCL mentioned in first para of this clause and under law

60. Risk purchase:

In case of supplier who has not adhered to the delivery schedule, the TGSPDCL reserves the right to purchase the balance quantity from the open market/floating another tender and recover the extra expenditure thus incurred from the supplier.

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:
- i. 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.
 - ii. If the Supplier fails to perform any other obligation(s) under the Contract.
 - iii. 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.

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 of 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 act as Presiding Arbitrator. In case of failure of the two Arbitrators appointed by the parties to reach upon a consensus within a 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 to 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. One 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 to 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. 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 cable, telex, or facsimile 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 TGSPDCL 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 TGSPDCL.

SECTION – IV
SPECIFICATION NO. STN-1325/24
SCHEDULE OF MATERIALS

Sl. No.	Description of Material	Qty. in (Nos.)	Stores
1	33KV 3x400 Sq.mm Heat Shrinkable Straight Through Jointing Kits	1,500	FADS at TGSPDCL stores

Note: -

1. The tenderer should quote the rates for free at destination stores and shall fill the price schedule.
2. 2 Nos. (two) samples of each quoted item shall be submitted at the time of submission of bid. Bids received without samples will be rejected.

The purchaser will not be responsible for any damage that may be caused to the samples at any time

3. Delivery: To commence in 30 days and complete within 3 (THREE) months from the date of receipt of purchase order.
4. The technical analysis and price comparison will be carried out individually for each item.

TGSPDCL Stores:

District	Store Name
Mahaboobnagar	Mahaboobnagar
Nalgonda	Nalgonda
Medak	SangaReddy
Siddipet	Siddipet
RangaReddy	RangaReddy
Hyderabad	City-Hyd Stores
Wanaparthy	Wanaparthy
Suryapet	Suryapet

CHIEF ENGINEER/P&MM

SECTION-V
TECHNICAL SPECIFICATION. . STN-1325/24

1. SCOPE

The specification covers the supply, design and manufacture of **3KV straight through heat shrinkable cable jointing kits with Shear Bolt Mechanical Connector suitable for 3X400 sqmm XLPE UG Cable** test at manufacturer's works, suitable packing, transportation to TGSPDCL stores in satisfactory condition or otherwise specified else -where..

2. STANDARDS

All materials used and products provided under this specification must be in accordance to the standards **with latest amendments** listed below:

REFERENCES:

Sl. No.	Standard No.	Title
1.	IS 13573 (Part-II) 2011 with latest amendments	Type Test and Performance Requirements for cable Terminations and Joints on XLPE Cables from 6.6 KV to 33 KV ratings.
2.	IEC 61238-1 with latest amendments	Compression and Mechanical Connectors for power cables for rated voltages upto 30KV (Um=36 KV)
3.	ESI 09-13 Issue 1:1981 or later revisions made it	Performance Specification for high voltage, heat shrinkable components for use with high voltage solid cables up to an including 33,000 volts.

All materials components and products offered shall be of the latest designs, incorporating any improvements in materials and installation procedures knowledge of which has been gained through the manufacturers' research or experience.

The jointing materials and components shall be offered in the form of kits. The kits shall be supplied complete with all necessary tubings components (mechanical connectors/ Stress Control tubings/ earthing /Anti Tracking Tubings /cable preparation etc) to form a ready to energize joint / termination.

3. SITE CONDITIONS

The joints shall be installed indoors and outdoors in TGSPDCL in dusty atmosphere where the maximum humidity of 100% and maximum ambient temperature of 55 Deg.C. can be experienced. The straight through joints kits and end termination kits shall be suitable for continuous operation at the above site conditions.

4. SYSTEM VOLTAGE AND SERVICE CONDITIONS

- 4.1 Heat shrinkable kits are required for XLPE insulated cables in 33KV nominal voltage, 50Hz, 3 phase system with system highest voltages of 36kV. Both Straight Through joints shall be as per the Bill of Quantities. The tubing lengths shall be stated for items in BOQ.
- 4.2 Components shall not be adversely affected in any manner by contact with other material normally used in the construction of cable joints and terminations, and shall not increase the rate of corrosion of any metal with which they may come into contact. Assembled components forming part of a supply system shall perform without distress under the following conditions.

- i) Normal conditions: Continuous operation at a conductor temperature of 90 Deg. C. for XLPE insulated cables.
- ii) Fault conditions : Operation at a conductor and screen temp. of 250 Deg.C. for XLPE.

5.0 TYPE OF CABLES FOR WHICH STRAIGHT THROUGH JOINTS AND END KITS ARE REQUIRED

5.1 The 3x400 Sq.mm stranded, compact circular aluminum conductor, conductor screened with extruded semi conducting compound, dry cured(Nitrogen gas cooled) from triple extrusion through common triple cross head (single point triple extrusion) in combination with copper tape cores laid up, Filler inner sheathed, galvanized round/strip steel wire armored and overall PVC sheathed Black colour cable conforming to IS:7098 /II/85 with latest amendments and as per specification detailed.

6.0 QUALITY, ENVIRONMENTAL MANAGEMENT SYSTEM AND LABORATORY ACCREDITATION

The kits offered from the factory having a valid ISO 9001:2000 Quality Management System(QMS) certificate for the goods offered. The goods include the shrinkable and moulded components, as well as connectors.

7.0 UNITS OF MEASUREMENT

In all correspondence, in all technical schedules and drawings metric units of measurement shall be used.

8.0 TECHNICAL REQUIREMENTS

8.1. Heat shrinkable components

- 8.1.2 The term "heat shrinkable" is applied to extruded or moulded polymeric materials, which are cross-linked either by irradiation or chemical means, such that when their temperature is raised beyond the normal base polymer crystalline melting point, they do not melt but merely become rubbery. In this state if the material is then mechanically expanded and held in this position until the temperature falls below the crystalline melting point, it remains in the expanded state. Subsequent heating in an unconstrained state will then result in the material recovering or shrinking" to its original extruded or moulded size and shape.
- 8.1.3 Product design shall be based on the use of heat-shrinkable or elastic tubings and moulded parts to provide for the functions of high voltage insulation, electrical stress control, electrical screening, sealing and environmental protection as necessary. The use of tapes to provide primary insulation, screening or primary stress control is not acceptable.
- 8.1.4 Bidders shall submit evidence with their BIDs that designs are based on standards (IS/IEC/ESI) principles, accumulated know-how and satisfactory service experience.
- 8.1.5 Design shall aim at minimizing the number of component parts and the time and skill required for satisfactory installation. Complete external leakage insulation between the high voltage conductor and ground shall be achieved by utilizing heat shrinkable tubing and moulded parts. No filling medium shall be required.
- 8.1.6 These components shall be weather, ultra violet light and salt pollution resistant.

- 8.1.7 Full drawing of a joint and termination including all parts must be forwarded with the tender documents.

8.2 General Requirements of Installed Joints

The installed joints and terminations must provide the following:

- 8.2.1 Complete external leakage insulation between the high voltage conductor and earth potential using anti-track heat shrink material.
- 8.2.2 Electrical stress control using semi-conducting heat shrinkable tubing over the cores and by the insertion of high di-electric strength insulating material into the crutch of the termination such that electrical discharge activity does not occur in the termination after it has been energized at its rated voltage.
- 8.2.3 Hermetic sealing of the interfaces between heat shrinkable materials and cable surfaces, bushings or cable lugs by use of track resistant hot melt adhesive which can accommodate the creep and relaxations that may occur with recovered heat shrink materials.
- 8.2.4 This sealant shall be pre-coated inside the heat shrinkable components and activated by the heat applied to shrink the components which shall be in excess of 125 Deg.C.
- 8.2.5 Uniform adhesive flow from the adhered heat shrink component into the adjoining surfaces will be used as an indicator that shrinking is complete, and therefore, the adhesive must be suitable for this purpose.
- 8.2.6 The joints and terminations shall meet the electrical requirements laid down in this Specification.

33KV STRAIGHT THROUGH HEAT SHRINKABLE JOINTING KITS FOR 33kV XLPE INSULATED CABLES

8.3 Component Types And Sealants

8.3.1 Tubing components

The tubing components shall consist of following tubes and shall conform to the requirements of ESI 09-13 or later revisions made to it:

- i) Single co-extruded dual wall tubing/Trippl wall tubing comprising of
 - a. Inner insulating layer
 - b. Middle insulating layer
 - c. Outer conducting layer
 - i. Stress control tubing.
 - ii) Sheer Bolt Mechanical Connector
 - iii) Mastics, sealants and adhesives.
 - iv) External protective tubing.
 - v) Earthing braid (Aluminium or Copper) and its accessories complete set.
- 8.3.2 Outdoor terminations shall incorporate a design feature to prevent flexing of the terminated cores under short circuit conditions.

8.3.3 Joints and terminations must be insensitive to cable manufacturers tolerances allowed under BSS 6480 -1969.

8.3.4 Earthing braid should be provided to connect the metal shield of XLPE cable to make electrical contact with the outer screen of the joint. The Earthing braid (Copper or Aluminium) must have passed the short circuit rating as per standards. The test certificate as per the required standard shall be enclosed.

8.3.5 Joint case if any comprising two interlocking half shells should be provided for mechanical strength of joints.

8.4 Anti-tracking and stress control

8.4.1 Electric stress control for the cable insulation screen in termination and joints shall be achieved by heat shrinkable tubing. The straight through Joint shall include mechanical connector including all necessary items.

8.4.2 This tubing shall have defined impedance characteristic, volume resistivity, and dielectric constant in accordance with IEC 93 and IEC 250.

8.4.3 Anti-track and weather-resistant tubing shall be used in outdoor Straight through and end termination kits in all positions where the material surface is subject to electrical stress.

8.5 Mastics

8.5.1 Mastics or adhesives used as sealants for these tubings must be similarly anti-track and weather-resistant

8.5.2 Sealing of the interfaces between heat shrinkable materials and/or cable surfaces shall be achieved by using a track resistant sealant or a hot melt adhesive. This sealant/ adhesive shall be precoated inside the heat shrinkable components and activated by the heat applied to shrink the components.

8.5.3 The sealants shall conform to the requirements of ESI 09-13 or later revisions made to it.

8.5.4 The sealants utilized shall be track resistant and shall form adhesive peel strength between non tracking tubing and non tracking moulded part.

8.5.5 The dielectric strength, tracking and erosion resistance of the sealant as per ASTM D2303. (The effects upon insulating material resulting from the action of electrical discharges upon a material surface).

8.6 Screening

Screening of conductor connectors shall be achieved with single co-extruded dual wall tubing/ Tripple wall tubing comprising an inner insulating layer and an outer conducting layer. Separate or additional insulating and conducting tubings are not acceptable. The insulating layer shall provide an insulation thickness at least 30% more than the cable insulation.

8.7 Connectors

8.7.1 Mechanical shear bolt type

Mechanical shear bolt type connectors with following characteristics/ features shall be used.

- i) They shall be in accordance with IEC 61238-1.
- ii) Connectors shall be of the water block type, and the shear bolt heads to be hexagonal.
- iii) Lugs on aluminum cores shall be provided with oxidation inhibiting compound, or any other approved means for inhibiting oxidation.
- iv) Bolts of the shear bolt type shall be suitable for M12 bolt

9.0 SUPPLY OF TECHNICAL INFORMATION TEST:

- 9.1 Detailed installation instructions with drawings for terminations offered, including all parts, shall be provided with the BID documents in English language.
- 9.2 Tenderers must submit with their tenders two Nos samples of the kits offered. Tenders without samples shall not be considered
- 9.3 The kits shall include the installation instructions.
- 9.4 Manufacturers must submit a list of all electrical utilities whom they have supplied heat shrinkable joints and terminations at voltages specified in the above bid.
- 9.6 The information listed below must be supplied for each order quoted.
 - 1.Name of utility
 - 2.Order Number
 - 3.Order period (From.....to.....)
 - 4.Order value
 - 5.Total number of joints and terminations supplied
 - 6.Number and details of each size of joint or terminations supplied.
 - 7.System voltage for which joints and terminations were supplied.
 - 8.Specification of the cable for which the joints or terminations were supplied.
 - 9.Set of installation instructions for the joints and terminations supplied showing clearly the components used in making the joint or termination.

10.0 INSPECTION AND TESTING

- 10.1 All materials covered by this Specification shall be subject to inspection and test by the Authority during manufacture and before final dispatch from manufacturer's works. The approval of the Authority of any such inspection or test will not, however, prejudice the right of the Authority to reject the materials or any part thereof, if it does not comply with the specification when erected or does not give complete satisfaction in service. The tenderer shall make available to the Authority for the inspection and testing all required personnel and offer facilities (equipment, testing instruments etc.) at no cost to the Authority. The Authority may, however, use his own instruments and apparatus as a check.
- 10.2 Before any part of the jointing materials is packed or dispatched from the manufacturers works, all tests called for are to have been successfully and satisfactorily carried out in the presence of the Inspector and a certificate issued to that effect by the Inspector in writing.

- 10.3 Adequate notice is to be given when any part of the jointing materials is ready for inspection or test and every facility is to be provided by the tenderer and his subcontractors to enable the Inspector to carry out the necessary inspection and witness the tests. Duplicate copies of all principal Test Records and Test Certificates are to be supplied to the Inspector for all tests carried out in accordance with the provisions of this specification.
- 10.4 The jointing materials and all component parts thereof are to be fully tested in accordance with the provisions of the latest relevant standards as stated in clause 2.0 of this Specification or as may be agreed in writing with the Inspector. Test Certificates are to be forwarded to the Purchaser together with the invoices.
- 10.4 Electrical performance tests mentioned in clause 2 shall be carried out on samples chosen at random in presence of TGSPDCL/third party representatives at manufacturer's works or at CPRI if desired by TGSPDCL at bidders cost.
- 10.5 Material Tests:
The tests shall be performed to verify the quality of material requirements. The tests shall be carried out in the manner specified in ESI 09-13, Parts 3 and 4 and as per the relevant standards of IS 13573 – Part II : 2011 shall satisfy the requirements stated therein:
- 10.5.3 Electrical Performance Tests:
The following tests shall be carried out to check the electrical performance of the components:
- i) A.C. Voltage withstand as per IEC.60
 - ii) Partial discharge -for screened cables IEC.270

11.0 GUARANTEE.

The Straight Through jointing kits shall be guaranteed for three years from the date of supply.

12.0 TRAINING

Tenderers are required to provide training for TGSPDCL staff and also to the available outsourced cable jointers for at least 10 man days in phase wise over the period of the contract, at dates that will be decided at a later stage. All expenses i.e trainers wages, living expenses. Training materials i.e cables and jointing materials shall be provided by shall be covered by the Tenderer.

13.0 PACKING AND MARKING

- 13.1 The joint/termination kit shall be properly packed with all the shrinkable tubings, moulding components and connectors and other accessories as required to form a self contained kit. The packing shall be of such design as to prevent moisture and dust ingress and shall also protect the contents against mechanical damage.

The following information shall be mentioned on kits for future correspondence incase of replacement/rectification on the kits as well as on the external packing box.

- Name of Manufacturer
 - Manufacturers reference
 - Year of Manufacture/ Purchase order No.
 - Expiry date whenever applicable
- 13.2 The kits shall also include the following:
- a) Installation Instruction sheet manuals containing complete step by step instructions in the English language.
 - b) A check list stating the quantities and description of components contained in the kit shall be supplied in each kit.

- 13.3 Each component of the kit shall be separately packed in polyethylene and component name/part number shall be marked on the polyethylene packing.
- 13.4 All materials and components comprising the kit shall be clearly and permanently marked in a prominent position with the supplier's/manufacture's name, product identification, batch number and year of manufacture. The batch number shall allow for full traceability of manufacture including the new materials which make up the polymeric compounds used in extrusion and moulding processes. Extruded components (tubing and wrap-arounds) shall additionally be marked with their expanded and fully recovered internal diameter. They may alternatively be marked with the upper and lower diameters of their range of application.
- 13.5 Markings on extruded components shall be repeated along the length with gaps not exceeding 200mm. Components which cannot be marked shall have the above information provided on immediate packaging.
- 13.6 Packed kits shall be packed in carton boxes which shall be placed in wooden pallets in order to facilitate fork-lift handling.

14.0 STORAGE

Components and kits shall be capable of being stored and shall have unlimited shelf life without deterioration in an ambient air temperature 5°C to 50°C when protected from direct sunlight.

15.0 Type Test Certificates :

The following Type Test Certificates certified by any NABL accredited laboratory or any International recognized testing laboratory shall be submitted which shall not be more than 5 years old.

- a) Type Test Reports for 33KV 3x400 Sq.mm Heat Shrinkable Straight Through Cable Jointing Kits with mechanical connector as per IS 13573 (Part II) 2011 with latest amendments .
- b) Type Test Reports for Sheer Bolt Mechanical Connector as per IEC 61238

16.0 Tenderers must submit

- 1. Type Test Reports as per Sl.No.15
- 2. The recommended lengths of the stress control material.
- 3. Proof of accelerated laboratory and long term field usage to confirm the retention of the properties within permissible limits under variations of temperature and thermal ageing
- 4. Full set of dimensioned drawings including installation instructions
- 5. Transport, storage and installation requirements.
- 6. Acceptance letter of two samples to be submitted

GUARANTEED TECHNICAL PARTICULARS

Sl. No.	PARTICULARS		33KV Straight Through Heat Shrinkable Jointing Kits
1	Name of the manufacturer		
2	Place of Manufacture		
3	Type (Design) of joint		
4	No. of years the design is in commercial use		
5	Rated voltage	KV	
6	Rated Current	Amps	
7	Suitable for conductor	Sq.mm	
8	Connector, type, material		
9	Partial discharge test at 72 KV	PC	
10	A.C. withstand voltage	KV	
11	Impulse withstand voltage +ve and -ve 10 times	KV	
12	Load cycling 90 deg. C +50 deg. C (No. of cycles)		
13	Load cycling as above under 1M water (No. of cycles)		
14	D.C. withstand (maximum voltage)	Hrs.	
15	D.C. withstand voltage 15 Min.		
16	Conductor thermal short circuit 250 deg. C, 1 sec.		
17	Shield thermal short circuit 250 deg. C 1 Sec		
18	Type tested to standard (s)		
19	Additional Information		
20	Comply with IS		
21	Comply with ESI		
22	Comply with EN		
23	Comply with any other standards (Specify)		

SECTION – VI

QUALIFICATION REQUIREMENTS

1. The bidder should be a **manufacturer/Authorized dealer** who must have designed, manufactured, tested and supplied **to power utilities** at least 40% of the quoted quantity of the goods/equipment of same or higher voltage class or higher cable size indicated in the “Schedule of Requirement” in one continuous period of 12 months during the last 5 years period and its financial turnover during any one year of the last five years should have been equal or more than 100% value of the material now quoted. **(Supplies of quoted make supplied by either OEM or any of their dealers will be considered).**

At least 20% of **quoted quantity (Performance of quoted make supplied by either OEM or any of their dealers)** offered against this Specification of same or higher cable size but same voltage class should be in successful operation since 2 years as on the date of opening of the Bid with documentary evidence **(Performance certificates issued by Head of Purchasing authority shall be enclosed)**. Fresh bidders can be given order upto 15% of total quantity as a trial order if equipment justified.

Any company/vendor/supplier/contractor that is blacklisted/debarred by any other power utility is not eligible to participate in the tenders.

The bidders shall have to furnish an undertaking in the prescribed format (at page no. 52) regarding any relation to the promoters of blacklisted / debarred companies by any utility. Any false information furnished in the declaration while rendering bid, such contract is liable for termination as well as recovery of damages.

2. **The authorized dealer of OEM should submit following documents:**
 - a) **The authorized dealer of OEM shall be able to furnish Valid Type test certificate from OEM.**
 - b) **The authorized dealer of the manufacturer shall submit the valid MOU with the Manufacturer for sale of the offered material.**
 - c) **The authorized dealer of OEM shall submit tender specific Authorization letter with tender specification No from the OEM at the time of tender, stating that the OEM is responsible for the guarantee of the material for a period of 3 years.**
 - d) **The authorized dealer of OEM should have authorized service centers in INDIA with sufficient spares as per the contract.**

NOTE: Either manufacturer or his authorized dealer should participate in the tender. The bids will stand annulled if both are participated for same tender.

3. The bidder should furnish the information on all past supplies and satisfactory performance in proforma under Form 5 attested by any Gazetted Officer
4. 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 five years, bankers certificates etc.

5. The bidder will furnish Type Test Results. The type tests must have been conducted on the material offered as per the relevant IS in recognized laboratory (**NABL**) or any International recognized testing laboratory as per the latest revision of the Technical Specification and the date of Type tests will not be later than **5** years. The Bids received without type test reports will be treated as Non-Responsive.
6. 2 Nos. (two) samples of each quoted item shall be submitted at the time of submission of bid. The bid will be considered only if the sample is inline with the specification.
7. 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.
8. Not withstanding anything stated above the purchaser reserves the right to assess bidder's 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. BID FORM

Date.

TO: (Name and Address of Purchaser)
Gentlemen and/or Ladies:

Having examined the Bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver. (Description of Materials / equipment) in conformity with the said bidding documents in accordance with the prices quoted online and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the Materials / equipment in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to. 10% of the Contract Price for the due performance of the Contract, in the form prescribed by the Purchaser.

We agree to abide by this Bid upto (for the Bid Validity Period) specified in Clause and it will remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, will constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

We certify / confirm that we comply with the eligibility requirements as per clause of the bidding documents.

Dated this.day of.200

[Signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

2. (a) BID SECURITY FORM

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 ____ 200 .

THE CONDITIONS of this obligation are:

1. If the Bidder
 - a) withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
 - a) 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 forty five (45) days after(from the date of tender opening) 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.

2. (b) PERFORMANCE SECURITY FORM

To: _____ (Name of Purchaser)

WHEREAS.....(Name of Supplier)
(hereinafter called "the Supplier") has undertaken, in pursuance of Contract No.....dated.....2005
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. 2009 .

Signature and Seal of Guarantors

.....
Date.2009.

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

.....
.....

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

3. CONTRACT FORM

THIS AGREEMENT made the. day of. 200 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.

4. PROFORMA FOR PERFORMANCE STATEMENT

Bid No. _____

Date of Opening _____

Time _____ Hours

Name of the Firm _____

Order placed by (full address of purchaser)	Order No. and Date	Description and quantity of ordered equipment	Date of Completion of Delivery	
			As per Contract	Actual

Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a Certificate from the Purchaser)

Signature of the Bidder _____

5. DETAILS TO BE FURNISHED BY THE MANUFACTURER (Format A)

1. Specification No.	:	
2. Name of the Material	:	
3. Quantity to be procured	:	
4. Last date and time for submission of Bid	:	
5. Date and time for opening of Bid	:	
6. State whether Bid guarantee is enclosed	:	
7. State whether the quotation in two parts has been submitted.	:	
8. State whether 20% minimum quantity is quoted	:	
9. Whether willing to furnish performance B.G. @ 10% if order is placed	:	
10. Whether month wise delivery schedule indicated	:	
11. Prices whether Firm	:	
12. Whether any other tax / duty payable. If so give details and the same is included / not included.	:	
13. State whether TGSPDCL 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 TGSPDCL Specification	:	
18. Whether you have executed orders of the TGSPDCL previously for these items. (Please give details)	:	
19. Similar details in respect of supplies made to other utilities	:	
20. Whether Bid guarantee exemption letter enclosed, if exempted.	:	
21. Whether sales tax clearance certificate enclosed	:	
22. Whether Income-tax clearance certificate enclosed.	:	
23. Whether Warranty clause accepted	:	
24. Whether Penalty clause accepted	:	
25. Whether delivery schedule accepted	:	

6. SCHEDULE OF DEVIATION**(i) 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 :

6. SCHEDULE OF DEVIATION**(ii) 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:

5. MANUFACTURERS' AUTHORISATION FORM

No. _____ dated

To

Dear Sir,

SPECIFICATION No.

We _____ who are established and reputable manufacturers of _____ (name & descriptions of Materials / equipment offered) having factories at _____ (address of factory) do hereby authorize M/s. _____ (Name and address of Agent) to submit a bid, and sign the contract with you for the above Materials / equipment manufactured by us against the above Specification No..

No Company or firm or individual other than M/s. _____ are authorized to bid, and conclude the contract in regard to this business against this specific Specification No..

We hereby extend our full guarantee and warranty as per Clause 52 of the General Conditions Contract for the Materials / equipment and services offered by the above firm against this Specification No.

Yours faithfully,

(Name)
(Name of manufacturers)

Note: This letter of authority should be on the letter head of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by the Bidder in its bid.

DECLARATION FORM**Declaration to be given by the Company in regard to relation to promoters of Blacklisted /
debarred companies by any power utilities.**

I declare that, myself or any of the representatives of my company / firm do not have any relatives with promoters of blacklisted / debarred companies by any utilities.

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 the above information found to be false or incorrect at a later date, the CPDCL is entitled to terminate the contract/agreement entered into besides recovering damages as may be found necessary, with due notice.

Signature of authorized representative

CHIEF ENGINEER/P&MM