

**GOVERNMENT OF PUDUCHERRY
ELECTRICITY DEPARTMENT
ENQUIRY FORM**

Regd Post term free due

Enquiry No. ²⁸⁷ **/ED/EE/EHV/PLCC & Lines/F.CLR/Sed - Kpt/16-17** **Dated:** 29/06/2016

To:

As per the list enclosed

Sir,

Sub: Electricity Department, Puducherry - Division - VI - Enquiry for the supply of 50 nos. of 120 KN composite long rod silicon rubber insulators with corona ring requested - Regarding.

Please send your lowest quotation for supply of the following materials in a sealed cover superscribed with "Enquiry number and due date" so as to reach this office on or before 25/07/2016 at 11.00 A.M and intimate your acceptance of the following conditions in case an order is placed with you. The tenders received will be opened on the next working day at 3.30 P.M. If the opening date happens to be a holiday, the tenders will be opened on the next working day.

Sl No.	Description of Materials	Approximate Quantity	Delivery Period
1.	120 KN 110 KV Composite long rod silicon rubber insulator ball and socket type as per the specification enclosed and confirming to IEC 61109/2005 with corona ring on both ends. Type Test certificate should be furnished along with the Offer and routine test certificate should be furnished along with the supply. Quotation should be furnished, as per the prescribed form enclosed, other wise your offer will be rejected.	50 sets.	With in 45 days from the date of receipt of supply order.

TERMS AND CONDITIONS FOR SUPPLY

- 1.2** Tender should be addressed to the Executive Engineer – EHV, Electricity Department, Puducherry – 605 001 and should be sent in sealed covers with the following Superscriptions.

The envelope should be addressed only to the Executive Engineer – EHV Electricity Department, Puducherry – 605 001. The envelope should also bear the name and address of the firm and seal, if any.

- 1.3** The tender should be as per the enclosed prescribed tender form. Otherwise the tender will be rejected.

- 1.4** (a) If the tender is made by an individual, it shall be signed with his full name his postal address shall be given.

(b) If it is made by a firm, it shall be signed with the co-partnership name, by a member of the firm, who shall sign his own name and the name with the address of each member of the firm.

(c) If the tender is made by a Corporation, it should be signed by a duly Authorized Officer who shall produce with his tender satisfactory evidence of his Authorization. Such tendering Corporation may be required before the contract is executed to furnish evidence of its corporate existence.

Earnest Money Deposit:

The Tender must pay as Earnest Money Deposit, a sum of Rs.5,000/- by a Demand Draft on any Scheduled Bank or State Bank of India, drawn in favour of the Drawing and Disbursing Officer/EHV, Electricity Department – 605 001 payable at the State Bank of India, Puducherry. The cash receipt of the deposit thus made and issued by the Office The Superintending Engineer – I, Electricity Department, Puducherry or the demand draft should be attached to the tender. Cash, Cheque of Bank Guarantee should not be sent and deposit made by Cheque will on no account be accepted. Firms registered permanently with NSIC or DGS&D or as permanent SSI Unit of the Government of the Puducherry for the manufacture / Supply of the items quoted are exempted from payment of earnest money deposit. Tenders without Earnest Money Deposit or proof for claiming exemption from payment of Earnest Money Deposit will be rejected in the first instance.

The Earnest Money Deposit will be refunded to the unsuccessful tenders immediately after the tender has been finalized and on receipt of application from them along with advance stamped receipt for the amount.

- 1.6** **Validity of the tender:**

Tenders should be validated for acceptance for a period of at least 120 (One Hundred and Twenty) days from the date of opening from the date of receipt of acceptance of sample, whichever is latest.

1.7 Guarantee:

The materials shall be guaranteed for satisfactory performance working for a Period of twelve months from the date of commissioning or eighteen month from the Date of receipt of materials at stores. Any defects notified during this period shall be rectified free of charge to the satisfaction of the Department.

1.8 Sample:

Samples should be submitted along with tender / positively within 10 days after Opening the tender at tenders cost and freight prepaid. Otherwise the tender is likely to be rejected. Unapproved samples will be returned to the Tender, if so required by the Tender, at his cost.

All samples shall bear suitable identification with the following information:

- (a) Specification No. ----- date -----
- (b) Name of the Tender with full address
- (c) Name of the manufacturer with full address -----
- (d) Brief and complete description of the samples -----

1.9 Leaflets and Description Literature:

Full descriptive particulars and drawings of the equipments offered should accompany the tender.

Information regarding the country of manufacture or origin of materials used in the Manufacturing of the articles should be furnished.

1.10 Deviations:

Deviations from any standard specification or clauses of specification should be clearly pointed out. Clauses not so commented upon shall be taken as having met with the approval of the tender and will be binding on him.

1.11 Tender Opening:

Tenders will be opened at 3.30 P.M on the next working day of the due date.

The Tenderers or their authorized agents may choose to be present at the time of opening of tender. The tender receiving officer will on opening of tenders prepare a statement of attested and unattested corrections therein and hand it over to the tenderers and initial all such correction therein in the presence of the Tenderers. If any of the Tenderer or their agent find it inconvenient to be present at the time of opening, then in such a case the tender receiving officer, will on opening attest the tender of the absentee Tender and make out a statement of the attested and

unattested corrections. The absentee Tender shall then accept the statement of correction without any question whatsoever.

1.12. The Superintending Engineer-I, Electricity Department, Puducherry reserves the right to reject any or all tenders, award any portion of the order to any one Tender or more tenders irrespective of the rate being equal or not, and at his discretion increase or decrease the quantities while ordering and during the period of contract after ordering on any of the orders or all orders.

1.13. Security Deposit

(a) When a tender is to be accepted the Tenderer whose tender is under consideration, on being issued provisional order to him by the Electricity Department, Puducherry of acceptance of that tender shall make security in cash at this office or by Demand Draft drawn in favour of **"The Drawing and Disbursing Officer/EHV, Electricity Department, Puducherry** and Payable at Puducherry obtained from Nationalized Banks for the periods decided by the department to make up the Security Deposit which along with EMD 7.5% of the cost of the order within a week from the date of intimation under consideration of order. Failure to make up the Security Deposit as defined above may entail forfeiture of the Earnest Money Deposit. Any case of the default against contracts by the firms exempted from payment of Earnest Money Deposit / Security Deposit will be reported to NSIC / Industries Department, Puducherry for taking suitable action against such firms and if necessary to remove from the list and this will be without prejudice to department action as deemed fit.

(b) The security deposit with the Earnest Money shall be retained as Security Deposit for the due fulfillment of the contract. The Security Deposit and Earnest Money Deposit made by the contractor will not bear any interest. After the deposit of Security deposit, a supply order will be placed on the contractor which should be duly acknowledged. Failure to acknowledge the receipt of order / non effecting of supply as per order may entail forfeiture of the total Security Deposit and cancellation of the purchase order without prejudice to the right of the department to recover the losses incurred in this regard.

(c) If the department issued Provisional Order, to the successful Tenderer within the validity period is deemed to be placed order with the firm. The firm should

furnish Security Deposit amount within the date specified in the provisional order failing which the provisional order shall be liable for cancellation at the risk and expenses of the firm.

(d) On complete fulfillment of the contract by the Contractor to the satisfaction of the Department, the Security Deposit and Earnest Money paid by the Tenderer shall be returned to him after the guarantee period within a reasonable time after deducting the amount, if any, due to the department on receipt of request from the contractor with advance stamped receipt as applicable

2. RATE AND CONDITIONS

2.1. Rates:

The lowest rates quoted by the Tender should be firm, in rupees for free delivery at the destination and should include VAT, Customs, Import, Excise Duties, Insurance and freight charges. The Purchaser will not pay separately for transit insurance. The sales tax where legally leviable and intended to be claimed from the purchaser should be distinctly shown along with price quoted. If this is not done, no claims of sales tax will be admitted at any later stages and on any ground whatsoever.

Appropriate sales tax if any found admissible will be paid over and above purchase Price in accordance with the provision of the relevant sales tax act in force. Provided always it is hereby agreed and declared that in case where has Department has doubt whether the sales tax is at all payable on the transaction in question, The department if hereby authorized to withhold the amount of tax until the party produces an order of court competent jurisdiction, declaring liability of the transaction to sales tax.

2.2. Delivery:

The period of delivery should be specified. Ex-stock, quick and short delivery will be normally given preference. Delivery for the part supply / suppliers and the period required to complete the order in full should also be specified. The delivery period should be kept up and no excuse such as Lack of booking facilities etc., will be accepted. In case goods booking cannot

ensure delivery within the scheduled period, booking should be done by lorry or other mode of road transport without extra cost to the Department and it is always the Supplier's responsibility to arrange for the transport. Any delay will be viewed seriously and suitable penalty imposed if necessary. The Tenders should take this into consideration when quoting. The Tender should clearly state when the supply would commence. The delivery period specified in the tender is clear and the Tender under our penalty clause given as follows should guarantee specific terms:-

Should delivery be delayed by strike lockouts, fire accident or any clauses whatsoever beyond the reasonable control to the contractor and whether such delay or

impediment occur before or after the time or extended time for despatch or completion, a reasonable extension time shall be granted.

If supplies to be tender against this correct or made by the contractor beyond the delivery period in the Department accepts the contract and them. Such acceptances or without prejudice to department's right to claim penalty for the delay in supply governed by penalty clauses.

2.3 Extension of delivery period:

No extension of time beyond that delivery period quoted will normally be granted.

2.4 Loss or damage:

Ownership of the materials will rest with the contractor until delivery in good condition to the consignee at the destination External damages or shortages that are prima face, the results of rough handling during transit to site or due defective packages will be intimated within 15 Days of the arrival of the materials at site. Internal defects, Damages etc. which cannot ordinarily be detected on superficial visual examination through due to bad handling in transit or defective packing could be intimated within two months from the date of receipt of these articles at site. In either case the damaged or defective materials should be replaced by the contractor by free of cost.

2.5 Penalty:

If the contractor fails in the due performance of his contract within the time fixed by the contract and the purchaser has suffered any loss from this delay occasioned by such failure, the

contractor is liable at the discretion of the purchaser to a penalty upto 0.5% of the contract value of such portion of the material only that have not been delivered on the specified date for each week of delay between the appointed or extended time as the case may be and the actual time of acceptance of supply, and such penalty shall be in full satisfaction of the contractor liability for the delay but shall not in any case exceed 10% of the contract value of such portion of the materials.

2.6. Payment:

100% will be made within 30 days after receipt of materials in good condition at destination and receipt of bills in triplicate along with advance stamped receipt for the amount. All payments will be made only after the approval of the Test Certificate. No other terms of payment will be accepted. Tenders with mode of payment other the above will be summarily rejected.

Payment for the supplies will be made by Demand Draft in rupees on the State Bank of India, Puducherry or any other branches of the state Bank of India.

2.7. Tests:

Manufacturer's certificate for the Routine test specified for the items should be forwarded. The materials may be rejected if the test results are not satisfactory.

2.8. Guarantee:

Where test certificate is not called for in the order, written guarantee should be furnished wherever necessary guaranteeing the Department against defects in the goods supplied either in materials or workmanship and this being operative for a period of 18 (eighteen) months from the date of receipt of materials at site in good condition. Any of the goods found defective within guarantee period shall be replaced free of cost

2.9. Income Tax clearance Certificate:

Each Tender shall append to his tender a clearance certificate of income-tax (latest) from the appropriate Income-Tax Authorities in the form prescribed therefore. In the case proprietary ground or Partnership firm, it will be necessary to produce the certificate before mentioned for proprietary or proprietors and for each of the partners as the case may be. If a certificate has already been produced by the Tender during the calendar year in which the tender is made in respect of previous tender to this office it will be sufficient if particulars regarding the previous occasion on which the certificate was produced are given. All tenders received without a certificate as above mentioned will be rejected.

2.10. General Conditions:

- (a) The contractor is responsible for all acts done either by him or by his servants or representative.
- (b) In case of all disputes it should clearly be understood that the decision of the Executive Engineer-VI, Electricity Department, Puducherry would be final.
- (c) Any notice to the contractor shall be deemed to be efficiently served if it is given in writing by post to his usual address or latest known place of business.
- (d) The contract once awarded is not transferable.


**EXECUTIVE ENGINEER -VI
ELECTRICITY DEPARTMENT
PUDUCHERRY**

*Copy to:
A/E Computer*

TENDER FORM

From

To

The Executive Engineer/EHV,
Electricity Department,
Puducherry- 605 001.

Sir,

Sub: Tender specification No.
for the supply of 50 sets of 120 KN 110 KV Composite Long Rod Silicon
Rubber Insulator with Corona Ring on both ends.

-0-

Referring to the above tender specification, I am submitting herewith my tender as
detailed below:-

1. Tender for the supply of 120 KN 110 KV Composite Long Rod
Silicon Rubber Insulator with Corona
Ring on both ends.
2. Quantity : 50 sets
3. Basic price / Unit :
4. Rate and amount of excise duty :
5. Rate and amount of education Cess :
6. Rate and amount of sales tax :
7. Freight, insurance and other charges :
8. Discount, if any :
9. Net price / Unit :
10. Total net price :
11. Terms of delivery : Free delivery at Central Stores,
Electricity Department, Puducherry
F.O.R., Puducherry by road
12. Period of delivery (to be reckoned from
the date of regular supply order) :
13. Terms of payment (See Para 2.6 of
Tender specification : 100% within 30 days on receipt of
the materials in good condition.
14. Validity of the offer (See para 1.6 of
Tender Condition) : 120 days from the date of opening
15. Guarantee period (See para 2.8 of
Tender Condition)

16. Whether permanently registered with
NSIC / DGS & D /SSI of Pondicherry
for the items quoted. (Photostat copies
of the certificate to be enclosed)

17. Whether agreed to pay security deposit
as per condition 1.13

18. Details of Earnest Money Deposit furnished: Cash Receipt No. :

Dated :

Amount :

Demand Draft No. :

Dated :

Amount :

Bank :

19. Whether type test certificate obtained from
Govt. approved laboratory is enclosed.

20. Whether the item quoted bears ISI mark /
Conforms to IS specification. :
(Photostat copies of the certificate to be
enclosed)

21. Whether sample enclosed/will be furnished
within 10 days :

22. Whether income-tax certificate enclosed :

I agree to supply the materials at the above rates and agree to all the conditions set
forth in the Tender Specification.

Yours faithfully,

Enclosure:

1. Cash Receipt/Demand Draft
2. Sample.

The core shall be glass-fibre reinforced epoxy resin rod (FRP) of high strength. Both, glass fiber and resin shall be optimized in the FRP rod. Glass fibers with low content in alkalis shall be boron free E glass or Boron free electrically corrosion resistance (ECR) glass. Use of resin with hydrolysis trend due to water penetration should be prevented i. e. matrix of the FRP rod shall be Hydrolysis resistant. Suitability of Epoxy matrix as well as interface between matrix and fibers is to be considered as design parameter to prevent brittle fracture. The FRP rod should be void free and shall be manufactured through Pultrusion process.

The core of the composite insulator shall be completely covered by a continuous housing consisting of a sheath-weather shed. For molding of entire weather shed structure on to the rod in a one shot molding process to be employed to avoid multiple interfaces. Hardware i. e. metal fittings may be installed on the rod prior to molding of the shed controlling molding lines. The base polymer shall be 100% Silicon Rubber prior to the addition of reinforcing fillers. The thickness of compounding material on core should be minimum 3 mm. Manufacturer should furnish a description of its Quality Assurance Programme including fabrication, testing and inspection for any material (i.e. rubber), components (i.e. rod) or hardware (i.e. end fittings). The manufacturer has had fabricated by others should also be included. Insulator should have hermetically sealed structure in which the housing material is molded to cover the interface between the end fittings and the FRP rod. This seal should never be broken during testing or otherwise.

The composite insulators shall be socket and ball type with the necessary coupling arrangement such that pin shall move freely in the socket but do not get disengaged while in service under various operating and atmospheric conditions.

The socket & ball type metal end fittings shall be designed to transmit the mechanical load to the core & the end fittings shall maintain uniform and consistent mechanical strength. Material and methods used in the fabrication of metal parts shall be selected to provide good toughness and ductility. Metal end fittings shall be made from a quality malleable cast iron or forged steel or Spheroid Graphite Iron (SGI) and shall be hot dipped galvanized in accordance with IS 2629. Metal end fittings shall be uniform and without sharp edges or corners and shall be free of cracks, flakes, slivers, slag, blow-holes shrinkage defects and localized porosity. The attachment to the FRP rod shall be performed with a symmetrically controlled crimping method control by aquatic method that compresses the metal radially onto the rod without damage to the rod fibers or resin Matrix while providing strength equal to or greater than the defined and specified ultimate strength to the insulator.

The material used in fittings shall be corrosion resistant. Nominal dimensions of the pin, ball and socket interior shall be in accordance with the standard specification. Outer portion of ball or socket should be Zinc sleeved with minimum 99.95% purity of electrolytic high grade Zinc. The finished surface shall be smooth

and shall have a good performance. The surface shall not crack or get chipped due to ageing effect under normal and abnormal service conditions or while handling during transit or erection.

The design of the fittings and the insulators shall be such that there is no local corona formation or discharges likely to cause the interference to either sound or vision transmission.

The manufacturer should provide written verification about the housing materials, for which base polymer shall be 100% Silicon Rubber prior to the addition of reinforcement fillers considered will provide satisfactory performance.

Be homogeneous in order to avoid formation of localized discharge and to prevent interfaces humid penetration.

Each insulator shall be legibly and indelibly marked with the following details as per IEC – 61109

- a) Name or trade mark of the manufacturer,
- b) Voltage and type,
- c) Month and year of manufacturing,
- d) Minimum failing load/guaranteed mechanical strength in Kilo Newton followed by the word "KN" to facilitate easy identification.
- e) Country of manufacture.

The composite insulators including the ball and socket connections shall be standard design suitable for use with the hardware of any make conforming to relevant IS/IEC standards.

The dimensions of the Ball and Socket shall be 20mm designation for 120KN insulators in accordance with the standard dimensions stated in IEC:120/IS:2486(Part-II)

- | | | |
|-----|---|----------------|
| 1) | Nominal System Voltage | : 110 KV |
| 2) | Highest System Voltage | : 123 KV |
| 3) | Visible discharge voltage | : 88 KV (rms) |
| 4) | Dry lightning impulse withstand voltage | : 550 KVpeak |
| 5) | Wet power frequency withstands voltage | : 230 KV (rms) |
| 6) | Dry power frequency withstands voltage | : 250 KV (rms) |
| 7) | Total minimum creep age distance | : 3870 mm |
| 8) | Dry arcing distance (approx) | : 990 mm |
| 9) | Guaranteed mechanical failing load | : 120 KN |
| 10) | Routine test load | : 66 KN |
| 11) | Ball & socket coupling designation | : 20 mm |