



OFFICE OF THE CHIEF ENGINEER/TS,
SHAKTI SADAN, THE MALL, PSTCL, PATIALA-147001
COMMUNICATION DESIGN

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E-TENDERING WEBSITE <https://pstcl.nprocure.com>

SPECIFICATION NO: STQ – 8019/2015

**SPECIFICATION FOR DESIGN, MANUFACTURE, TESTING
AND SUPPLY OF LINE TRAPS**

DUE DATES & TIME:

- I) LAST DATE & TIME FOR DOWNLOADING : 11.09.2015 upto 05.00 Hrs.
OF TENDER SPECIFICATION
- II) LAST DATE & TIME FOR RECEIPT OF TENDERS : 15.09.2015 upto 11.00 Hrs.
- III) DATE & TIME OF OPENING OF TENDERS : 15.09.2015 at 11.30 Hrs.

Cost of tender documents: Rs. 2000/- (Rs. Two Thousand only)

**Dy. CE/Plg. & Comm.,
PSTCL, PATIALA.**

- NOTE: 1) Please note that the tenders against this tender enquiry are being invited through e-tendering mode. **Submission of Manual tenders in any case shall not be accepted.**
- 2) The prospective bidders are requested to get their digital signatures well in time for participation in the tender as no request for extension on this account will be entertained.
- 3) The details regarding e-tendering process may be seen on <https://pstcl.nprocure.com> or prospective bidders may contact M/s (n) Code Solutions at their toll free no. 1800-233-1010. It may be noted that no hard copy of the specification will be issued by this office and the specification can only be downloaded from the above mentioned website.
- 4) **Only firm prices may be quoted. Bids with variable prices shall be rejected.**
- 5) **Cost of specification i.e. Rs. 2000/- in the form of demand draft drawn in favor of AO/CPC, PSTCL, Patiala is to be submitted in a separate envelope along with the tender, failing which tender of the firm shall not be accepted.**

INDEX

Item/No.	PARTICULARS
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Part-1: GENERAL AND COMMERCIAL REQUIREMENTS

- | | |
|----|--|
| 1 | Important Note for Guidance of Bidders |
| 2 | Check List of Documents |
| 3 | General Instructions to be observed by bidders |
| 4 | Prices |
| 5 | MODVAT |
| 6 | Completeness of tender |
| 7 | Validity |
| 8 | Terms of payment |
| 9 | Delivery Schedule |
| 10 | Penalty/Damages for delay in delivery |
| 11 | Extension in Delivery Period |
| 12 | Negligence & Default |
| 13 | Force Majeure |
| 14 | Earnest Money |
| 15 | Intimation to Accounts officer (CPC) and Consignee |
| 16 | Sales Tax & Duties |
| 17 | Insurance |
| 18 | Warranty |
| 19 | Changes |
| 20 | Octroi Charges |
| 21 | Despatch Instructions |
| 22 | Inspection & Test |
| 23 | Civil Suit/Jurisdiction |
| 24 | Arbitration |
| 25 | Constitution, Experience and Financial Standing |
| 26 | Information regarding list of Bankers |
| 27 | Security Deposit |
| 28 | Cancellation |
| 29 | Contract Agreement |
| 30 | Order Preference |
| 31 | Fake Inspection Call |
| 32 | Qualifying criteria |
| 33 | Works Appraisal |
| 34 | Submission of Documents for Expeditious Payments |

Part 2 TECHNICAL SPECIFICATION

- | | |
|----|---|
| 1 | General |
| 2 | Scope |
| 3 | Requirement |
| 4 | Reference to Standards |
| 5 | Condition for Transportation, Storage and Operation |
| 6 | Technical Details |
| 7 | Type Test |
| 8 | Guaranteed Technical Particulars |
| 9 | Rating Plates |
| 10 | Instruction Manual and Drawings |
| 11 | Consignee |
| 12 | Responsiveness and Acceptance of Specification/Tender |
| 13 | Prices |

Part-3 ANNEXURES

- I Annexure-A (Schedule of Requirement and Delivery)
- II Annexure-B (Proforma for Appraisal of Firm)
- III Annexure-C (Schedule of General Information)
- IV Annexure-D (Undertaking for non payment of commission etc.)
- V Annexure-E (General Commercial Particulars)
- VI Annexure-F (Schedule of Financial & Technical Resources of the tenderer)
- VII Annexure-G (“Price Bid” Performa)
- VIII Annexure-H (Guaranteed technical Parameters)
- IX Annexure-I (Schedule of deviations)
- X Annexure-J (Under taking Form for order preference)
- XI Annexure-K (Contract Agreement form)
- XII Annexure-L (Bank Guarantee Form)

PART-1**GENERAL AND COMMERCIAL REQUIREMENTS****1. IMPORTANT NOTES FOR GUIDANCE OF BIDDERS**

1. The detailed breakup of prices as desired in the price schedule (ANNEXURE-G) must invariably be filled in the first instance while submitting the tender. Information as per other Annexures must also be supplied. In the absence of above, the bid is liable to be rejected.
2. The bidders will have to give, undertaking that they will not pay commission etc. or engage any commission agent or liaison agent for dealing with the PSTCL in any matter including purchase of specification etc. This undertaking is required to be supplied / uploaded along with the offer.
3. Quantity mentioned in the NIT could be ordered on more than one supplier.
4. The tenders from the direct manufacturers or their sole selling agents only will be considered.
5. The firms indicating NIL or concessional rate of CST/VAT in their bids will have to absorb the CST/VAT up to full rate applicable at the time of bidding. The firms who do not agree to this stipulation or indicate CST/VAT as extra without indicating the applicable rate shall be loaded with maximum rate of CST/VAT for evaluation purpose.
6. The firms indicating NIL or concessional rate of ED in their bids will have to absorb the ED up to full rate applicable at the time of bidding. The firms who do not agree to this stipulation or indicate ED as extra without indicating the applicable rate shall be loaded with maximum rate of Duty for evaluation purpose.
7. The scanned documents submitted/uploaded should be wholly typed or printed. There should be no erasure/ cutting/ over writing. However, any unavoidable cutting/over writing/correction made should be duly signed and authenticated. erase
8. **The material offered shall be entirely as per enclosed Technical specification and General terms & conditions. In case of any deviation, the bid shall be rejected without entertaining any correspondence.**
9. Conditional /Non conforming bids shall not be accepted.
10. Bidders should submit their offer in unambiguous wording failing which PSTCL's interpretation will be final.
11. All the Annexures to the specification and requisite documents as per requirement of the specification must be duly filled/submitted/ uploaded in the very first instance else the bid shall be rejected.
12. Documents to be furnished must bear signatures of a person authorized as per constitution and composition of firm. Authenticating documents to prove authority of signatory (Legal Power of Attorney in favour of signatory) must be attached/uploaded with the Bid.

13. Validity of the offers must be for minimum 120 days from the date of opening of Bids. The bidders revising their offer or withdrawing the same within validity period after opening of bids are liable to be rejected/ black listed.
14. The bidder shall supply a list of two authorized person(s) with his/their signatures duly attested on the firm's pad so that he/they may represent on behalf of the firm and participate in the opening process of the bids and the same should be with the authorized person(s), otherwise he/they will not be allowed to participate in the opening of tender.
15. a) Earnest Money as per clause 14 of Part-1 of this specification may be deposited through a Demand Draft drawn in favour of Accounts Officer / CPC, PSTCL, Patiala. For the instant tender enquiry the required EMD shall be as follows:

Sr. No.	Description	Max. EMD, for 100% qty.	Min. EMD, for 25% qty.
1	1250A/1.0mH Tuned Line Traps	Rs. 3,46,000/-	Rs. 86,500/-

For details, clause no. 14 of Part-1 of the specification may be seen.

- b) In case of Permanent Earnest Money Deposit (PEMD) of Rs.10.0 Lac (Rs. Ten Lacs) in the name of Chief Engineer /TS, scanned copy of a valid certificate to this effect, issued by the Accounts Officer/CPC, PSTCL, Patiala during three months immediately preceding the due date for tender opening and showing the Serial No. / Account no. allotted in the PEMD register, shall be uploaded with the bid documents.
16. Those firms will not be considered where there is 25% or more default for 9 months or any quantity for more than 15 months in making supplies against earlier purchase orders placed on them.
17. Those firms will not be considered with whom business has been suspended, black listed firms and debarred (including their sister concerns).
18. Offer of the firms who quote for less than 25% of the NIT quantity are liable to be rejected.
19. PSTCL reserves the right to increase or decrease the quantity of material or to reject any or all the bids without assigning any reasons. PSTCL will not be held responsible for this and will not pay any expenses or losses that may be incurred by the bidders in the preparation of the bids.
20. The cost of Tender Specifications shall be submitted by the Bidders in form of demand draft in favour of AO/CPC, PSTCL, Patiala, upto the time & date of opening of tender (refer due dates on the cover page of the specification / NIT), in the office of the Chief Engineer/TS, Shakti Sadan, PSTCL, Patiala. Bids of the firms, which do not submit the Demand Draft towards cost of specifications as mentioned above, shall not be considered. The demand draft towards cost

of specifications shall be submitted in an envelope clearly super-scribed with the words **“Cost of Specification against tender enquiry No. STQ-8019/2015”**.

21. The prospective bidders are requested to visit the PSTCL website periodically even after down-loading the specification to check for corrigendum issued, if any.

2. CHECK LIST OF DOCUMENTS

It is mandatory for the bidders to submit/upload/fill online the following documents else the bid shall be considered unresponsive and hence rejected:

Sr.No	DETAILS	PART	REMARKS
1	Cost of Specification	Part-I	Submit original DD/ valid PEMD certificate in <u>separate</u> envelopes in the o/o CE/TS before the last date & time of opening of tender and Fill up the DD/PEMD details on line. (see relevant clauses of Important Notes for Guidance of Bidders)
2	EMD / PEMD		
3	Annexure –A (Schedule of Delivery & Requirement)	Part-II	FILL ONLINE / UPLOAD SCANNED COPIES AS THE CASE MAY BE
4	Annexure –B (Appraisal Form)		
5	Annexure –C (Schedule of General Information)		
6	Annexure – D (Undertaking for non-payment of Commission etc.)		
7	Annexure – E (General Commercial Particulars)		
8	Annexure – F (Schedule of Financial & Technical Resources)		
9	Annexure-H (Guaranteed technical Parameters)		
10	Annexure-I (Schedule of Deviations)		
11	Documents related to fulfilling the qualification Criteria.		
12	Income Tax Returns of firm as well as Directors/ Partners/ Proprietor of the firm for the latest 3 years.		
13	Duly audited annual financial reports or turnover figures certified by Chartered Accountant for latest three years.		
14	Legally valid Authorization signed by Chairman & other Directors of the firm in case of Limited Companies & by all partners in case of partnership firms authorizing the signatory to sign the tender & deal with PSTCL.		
15	Memorandum & Article of Association for public/ private Ltd firm, Partnership deed for Partnership firms and supporting document for proprietary firm		
16	Copies of PO/performance execution certificates issued by other state utilities		
17	Any other supporting documents enclosed mentioning the purpose		
18	Annexure-G (Price Schedule Proforma)	Part-III	FILL ON-LINE
19	Annexure-J Performa for Order Preference		UPLOAD & later Submit Original after opening of Part-III

3. **GENERAL INSTRUCTIONS TO BE OBSERVED BY BIDDERS.**

- 1) All Bidders must carefully observe the following instructions. Quotations/Tenders not strictly in accordance with these instructions will be liable to be rejected:
- i) The bid must be complete in all respects. Every clause should be studied carefully in order to ensure submission of a complete and comprehensive tender. Failure to comply with any of these instructions or to offer brief explanation for non compliance is likely to render effective comparison of the tenders as a whole impossible and may lead to rejection of an otherwise competitively lowest offer.
- ii) The bid shall comprise of three parts i.e. Part-I, Part-II & Part- III as mentioned below:
- A) Part-I – Earnest Money
B) Part-II- Technical/Commercial Bids
C) Part-III-Price Bids.

- a) Part-I - Earnest Money: The first part will consist of earnest money deposit.
- b) Part-II- Technical /Commercial bids: The second part will consist of technical specification, schedule of deliveries and all other terms and conditions, status of quoted prices i.e. firm or variable, the base date & P.V. formula if the quoted prices are variable except rates. All commercial terms including discount if any, Excise duty, CST, VAT etc. shall be specified in the Part-II of the bid, so that any ambiguities relating to General Terms & Conditions and Technical details can be sorted out before the opening of Part-III i.e. Price Bid.

For the present Tender enquiry, Only FIRM prices may be quoted. Bids with Variable rates shall be rejected.

- c) Part-III: Price Bids: The third part will consist of the quoted prices for each item as well as other related terms like freight, insurance, ED, CST/VAT and other incidental charges relevant to the price. No correspondence/ clarifications shall be entertained after the opening of Part-III.

The following procedure will be adopted for the opening of bids:

Part-I (earnest money) shall be opened/checked first and if the earnest money is found to be as per the requirement of the specifications, only then Part-II shall be opened/checked. The bids without earnest money shall be out rightly rejected.

After opening Part-II of the bids (technical/commercial), the bids will be technically & commercially evaluated by PSTCL.

Part-III of the bids (Price Bid) shall be opened/checked in case of only those firms whose part-II of the bids after evaluation is found to be conforming to the specifications. The date and time for opening Part-III of the bids will be intimated to the qualifying firms & those who fail to qualify will be intimated accordingly.

- iii) The bid will be submitted/uploaded as per NIT/tender Specification complete in all respects.
- iv) The PSTCL shall accept the permanent earnest money of Rs.10.0 lac Organisation wise (Chief Engineer wise). As such the bidders desirous of having permanent earnest money deposit for Transmission Line Organisation may submit demand draft for Rs.10.0 lac drawn in favour of Accounts Officer/CPC, PSTCL, Patiala in the envelope for Earnest Money.
- v) The bidders indicating NIL or concessional rate of CST/VAT will have to absorb the CST/VAT upto full rate applicable at the time of bidding. The bidders which do not agree to this stipulation or indicate CST/VAT as extra without indicating the applicable rate shall be loaded with maximum rate of CST/VAT.
- vi) The bidders indicating NIL or concessional rate of ED in their bids will have to absorb E.D upto full rate applicable at the time of bidding. The bidders who do not agree to this stipulation or indicated ED as extra without indicating the applicable rate shall be loaded with maximum rate of ED for evaluation purpose.

2) The officer inviting tenders, contracting/purchasing agency/PSTCL (here-in-after referred to as purchaser) reserves the right to modify the schedule of requirements, technical particulars and the specifications at any time and to place the order as a whole or in parts and to reject any or all the tenders received without assigning any reasons. He will not be responsible for and will not pay for expenses or losses that may be incurred by bidder in the preparation of the bid.

Quotation/Bids shall be accepted only through e-tendering process of PSTCL. In case the due date of opening bids happens to be a holiday, they shall be opened at the same time & place on the next working day.

3) The bidders shall upload their bids, complete in all respects, on the given website upto the given time of the due date as per the NIT. The bids shall be opened thereafter on the given date & time.

4.0 PRICES:

- 4.1 (i) The unit rates should be quoted FOR destination at any Railway Station in Punjab/ PSTCL Railway siding wherever existing or delivery at PSTCL's Stores, through road transportation which will be treated at par with FOR destination. The tenderer quoting FOR destination rates must give the split up as ex-works prices, freight & insurance charges.

The break up of the FOR destination price should be given as under: -

- a) The Ex-works rates inclusive of packing & forwarding part of production cost should be on per unit basis. The cost should indicate the complete cost of raw material, labour, packing & forwarding charges forming part of production cost. The ex-works

cost should also include taxes and duties payable on raw material but should not include taxes and duties leviable on finished material (if leviable).

- b) Packing cost not forming part of production cost, handling, cartage etc., freight charges and transit risk insurance covered in FOR destination price must be shown separately.
- ii) All taxes and duties leviable on the price of finished goods as per sub clause 4.1(i)(a) shall be paid extra and the same should be shown separately as prevalent on the date of opening of tenders, to be paid at the rate as may be actually prevalent at the time of supply otherwise these elements shall be deemed to be included in the quoted prices and will not be extra. No taxes and duties will be payable on the element of cost quoted under sub clause-4.1(i)(b) above.

In addition to the break up of total price i.e. ex-works cost, ED, CST, F&I and packing the bidder should also give split up of Ex-works price. The break up to prices shall be indicated in respective Performa attached with the specification. The filling up of Performa shall be mandatory for tenders. The split up of Ex-works prices shall indicate cost of raw material, Labour component and overhead expenses. Raw material can further be divided into 3-4 parts depending on part of material.

The bidder will not be allowed to indicate overall discount on quoted price for which split up has been given. However, quantity/payment discount can be given by tenderer in the main tender (i.e. part relating to general terms & conditions). Any firm offering discount on the quoted price or after the opening of tender will be out rightly rejected.

- iii) In case of rates ex-works/ex-godown and for imported material, freight charge transit risk insurance, handling and clearance charges, FOB and C.I.F Commission of clearing agents at ports should also be indicated separately.
- iv) Only **FIRM** prices may be quoted. **Bids with variable rates shall be rejected.**
- v) The rates quoted F.O.R. destination or ex-works should be in both figures and words.
- vi) All statutory variations and fresh levy of any tax/ duty will be to PSTCL's account within contractual delivery period.

IMPORTANT:

a) Those firms who do not give breakup of their rates as per requirement of specification shall not be considered. Rates of E.D. & CST/VAT applicable must be indicated separately. All bidders should note that the price bids not indicating Ex-works including packing and forwarding charges forming cost of production, freight and insurance charges applicable, E.D., C.S.T. or sales tax may be liable for summary rejection.

b) VAT: The implication and %age (prevalent rate) of VAT levied on the prices may be clearly brought out.

5. MODVAT:

The rates should be quoted after taking into account the MODVAT benefit accruing to the bidder, which will be retrained by him. However, the extent of MODVAT benefit available which has been taken into account while quoting the prices must be indicated. Any increase or decrease in this benefit due to change in policy of Govt. shall be passed on to the purchaser or borne by it.

6. COMPLETENESS OF TENDER:

The tender must be complete in all respects. The tenderer in his own interest should submit complete tender, offering his comments against each clause of the specification. Incomplete tender may prove disadvantageous to the tenderer and liable to be rejected. The silence of tenderer on any terms of this specification shall be taken as acceptance of the specified terms of provision made there under. In the event of placement of order the provision will be made as per specification against which tenderer observed silence.

7. VALIDITY:

The offer should be unconditionally valid for at least a period of 120 days from the date of opening of the tender. Withdrawal or modification of the offer shall not be permitted. Tenders with validity less than 120 days shall not be considered and rejected out rightly. Any bidder revising the offer within validity period is likely to be blacklisted.

8. TERMS OF PAYMENT:

100% payment of the contract value pro-rata for each consignment after approval of Inspecting Authority/Test Certificate etc. alongwith 100% Sales Tax, Excise Duty and other statutory levies as per contract shall be paid within 30 days against receipted challans, subject to furnishing a Bank Guarantee of 5% of the amount valid for a period of three months after receipt of material against that consignment of complete items:

In case 5% BG towards 100% payment is not submitted in time as per P.O., 5% payment in lieu thereof shall be withheld from the presented bill. The BG for 5% amount (or the 5% amount withheld in lieu of 5% BG) shall be released on satisfactory adjustment of Goods Receipt Note to be issued by consignee within the validity period of the said B.G.

9. DELIVERY SCHEDULE:

The offer should clearly indicate monthly/quarterly schedule of deliveries date of commencement and completion of supplies against that indicated in the NIT/Specification (refer Annexure–A) which should normally cover period of entire job of manufacture, testing,

inspection and supply after acceptance and shall be reckoned from the date of despatch in case of Rail transport and receipted challan/goods receipt in case of Road transportation by goods carriers. Purchase order shall be placed strictly on the above stated understanding. Ex-stock and quicker deliveries may be some times preferred keeping in view the requirement of works.

The firm shall give FIRM delivery schedule while quoting. If the firm fails to supply the material within committed delivery schedule then it will be likely to be not considered for subsequent orders.

The purchaser reserves the right to divide the tendered quantity to have material as per specification. In case the order is placed on more than one firm, the delivery may be changed on pro-rata basis.

10. PENALTY/DAMAGES FOR DELAY IN DELIVERY:

If the supplier fails to deliver the material/equipment within the stipulated delivery period of the Purchase Order/Contract, the same is liable to be rejected and if accepted, the supplier shall be liable to pay as penalty charges, a sum of 0.5% (half of one percent) of the cost of undelivered supply/incomplete equipment per month of delay or part thereof, not exceeding maximum limit of 5% of the cost of complete unit of undelivered equipment so delayed. There will be a slack of one month that will not entail any penalty and will not involve any additional financial implication. Delay beyond slack period will attract penalty for the period of delay including slack period. However there will be no penalty/liquidated, damages in respect of purchase of proprietary items.

11. EXTENSION IN DELIVERY PERIOD:

If completion of supplies is likely to be delayed due to reasons beyond your control, you shall without any delay inform this office in writing of your claim for extension of time. This office on receipt of such information may agree to amend the delivery schedule as may be reasonable but without prejudice to other terms and conditions of the contract.

Any genuine delay in approval of technical details, drawing, samples, issuance of amendment to purchase order, conducting inspection and approval of test report/test certificate for allowing dispatches etc. will count towards extension of the delivery period by corresponding period other than that admissible under 'Force Majeure' conditions, if any, substantiated by the supplier, and duly accepted by the purchaser. The arrangement of required raw material such as steel/zinc is the responsibility of the supplier. Any non-availability of raw material will not be considered as a valid reason for extension in delivery

period. No extension in delivery shall be granted in case of delay in payment. However, for delayed payments beyond stipulated period as per terms of payment clause, compensation shall be credited @ 0.5% of the payment so delayed, per month or part there of to be adjusted against penalties levied or leviabale due to delay in deliveries under the contract.

12. NEGLIGENCE AND DEFAULT:

In case of negligence on the part of supplier/contractor to execute the order/contract with due diligence and expedition and to comply with any reasonable orders given in writing by the Purchaser in connection with the Purchase Order/Contract or any contravention in the provisions of the Purchase order/contract, the Purchaser may give 21 days notice in writing to the supplier/contractor to make good the failure or neglect or contravention and if the supplier/contractor fails to comply with the notice within time considered to be reasonable by the purchaser, he will suspend/terminate business dealings with the supplier/contractor for a specific period apart from claiming reasonable compensation/damage, forfeiture of security etc. The action taken under this clause will be notified to all the purchasing agencies & other State Transmission Corporations/Utilities.

13. FORCE MAJEURE:

During the pendency of the contract/purchase order, if the performance in whole/part by either party or any obligation there under, is prevented/delayed by causes arising out of any war, hostility, civil commotion, acts of the public enemy, sabotage, fire, floods, explosions, epidemics or non-availability of Government controlled raw-material under order/Instructions of Central/State Government regulations, strikes, lockouts, embargo, acts of Civil /Military authorities or any other cases beyond their reasonable control , neither of the two parties shall be made liable for loss or damages due to delay or failure to perform the contract during the currency of Force Majeure conditions, provided that the happening is notified in writing (with documentary proof) within 30 days from the date of the occurrence.

The supplies shall be resumed under the contract as soon as practicable after the happening (event) ceases to exist.

14. EARNEST MONEY:

- i) In case of open and limited tenders, the bidders shall be required to submit Earnest Money at the following rates in the form of Punjab State Transmission Corporation Ltd. Cash Receipt/Bank draft alongwith the tenders: -

Sr. No.	Description	Max. EMD, for 100% qty.	Min. EMD , for 25% qty.
1	1250A/1.0mH Tuned Line Traps	Rs. 3,46,000/-	Rs. 86,500/-

- ii) The following shall be exempted from depositing Earnest Money:

Suppliers having permanent Earnest Money of deposit Rs. 10.0 Lac with the TS organization of PSTCL. A certificate to this effect issued by the concerned Accounts Officer of the PSTCL during three month immediately preceding the due date of tender opening and showing the Serial number/Account number allotted in the Permanent Earnest Money deposit register shall be submitted by the Bidders in the envelope for Earnest Money.

Permanent earnest money deposit of Rs. 10 lac shall be deposited by the Bidder/Suppliers Organization wise with only CE/TS i.e. Transmission System Organization irrespective of the fact whether they have PEMD already deposited with other purchase organization of the PSTCL or PSTCL itself. A certificate to this effect issued by the AO/CPC, PSTCL, Patiala of the PSTCL under TS Organization during three months immediately proceeding the due date for tender opening and showing the serial Number/account Number allocated in the PEMD Register shall be submitted by the Bidder in the envelope for Earnest Money, for seeking exemption thereof.

- iii) a) In case of tenders not accompanied by full amount of Earnest Money for the items tendered but not less than 25% of the amount due, the order/contract, shall be awarded only for part of material/equipment services limited to a value corresponding to the actual amount of Earnest Money submitted with the tenders provided the placing of such part order is otherwise feasible and is in the interest of the PSTCL otherwise such tender shall be ignored.
- b) Earnest Money shall be forfeited in case of withdrawal/Modification of an offer within the validity period as required in NIT/Tender Specification after opening of tenders.
- c) In case of successful Bidders Earnest Money shall be converted as Security deposit and shortfall, if any shall be got deposited for faithful execution of Purchase Order/Contract.
- d) In case of tenders not accepted, the earnest money shall be refunded within 30 days of the award of order/contract to the un-successful tenderers.
- e) Earnest Money may be deposited through a Demand draft drawn in favour of Accounts Officer/Centralized Payment Cell, PSTCL, Patiala.

15. INTIMATION TO ACCOUNTS OFFICER (CPC) AND CONSIGNEE:

The supplier will have to intimate the probable date of dispatch followed by telegraphic advance intimation regarding the actual date of R.R. to Accounts Officer/Centralized payment Cell, Punjab State Transmission Corporation Ltd., Patiala, to enable him to arrange payment failing which demurrage/wharfage etc. will be to supplier's account. A copy of such

intimation should be sent to the consignees and Chief Engineer/TS, PSTCL, Patiala also for reference immediately.

16. SALE TAX & DUTIES:

A) **VAT:** The VAT as applicable if inclusive in prices shall be paid against documentary proof on submission of following certificates:-

- i) Certified that the transaction on which tax has been claimed has been/will be included in the return submitted/to be submitted to the Sales tax authorities for the assessment of the tax and the amount claimed from the PSTCL has been/shall be paid for the Sales Tax Authorities.
- ii) Certified that the goods on which tax has been charged have not been exempted under the rules made there-under and charges on account of the Sales tax on these goods are correct under the provisions of the relevant act or rules made there-under.
- iii) Certified that we shall indemnify the PSTCL in case it is found at a later stage, that wrong or incorrect payment had been made on account of tax paid by us.
- iv) Certified that we are registered dealer & our Regn. No. is _____.

B) Central Sales Tax:

The PSTCL has been registered as a dealer under the Central Sales Tax Act.

- i) When the Central Sales Tax is to be paid by the PSTCL, a declaration certificate in Form 'C' will be issued by the Chief Controller Finance/ Centralized Payment Cell, PSTCL, Patiala on receipt of material.
- ii) When the tax is to be paid by the Supplier, a declaration certificate in Form will be issued by the Chief Controller Finance/ Centralized Payment Cell, PSTCL, Patiala, subject to submission of the following certificates:
 - a) Certified that the transaction on which tax has been claimed has been/will be included in the return submitted/to be submitted to the Sales Tax Authorities for assessment of the sales tax and the amount claimed from PSTCL has been paid to the sales tax authorities.
 - b) Certified that the goods, on which Sales Tax has been charged have not been exempted under Central Sales Tax Act or the Rules made thereunder and the charges on account of the sale tax on these goods are correct under the provision of the relevant Act or rules made thereunder.

- c) Certified that we shall indemnify the PSTCL in case it is found at a later stage, that wrong/incorrect payment had been made on account of Sales Tax paid by us.
- d) Certified that we are registered dealers under the Central State Sales Tax Act and our Registration No. is _____.
- e) Certified that payment has been made under protest. The bills for the Sales Tax and insurance charges, if any, should be submitted separately.
- iii) The firm indicating NIL or Concessional rate of CST will have to absorb the CST upto full rate applicable at the time of tendering. Firm who do not agree to this stipulation or indicate CST as extra without indicating the applicable rate shall be loaded with maximum rate for evaluation purpose.

C) Central Excise duty:

a) Central Excise Duty, if and where-ever applicable and quoted to be charged extra will be payable at the rate prevailing during the scheduled delivery, subject to the production of the following three certificates by the Manager/ Senior administrative officer of the firm: -

- i) Certified that the transaction on which the Central Excise Duty is claimed has been/shall be included in the return submitted/to be submitted to the Central Excise Authorities and the amount claimed from the PSTCL has been/shall be paid to Central Excise Authorities.
- ii) Certified that the goods on which ED has been charged have not been exempted under the Central Excise Act of the rules there under and the amount charged on account of ED on these goods is not additional than what is payable under the provisions of relevant act or the rules made there-under.
- iii) Certified that we shall indemnify the PSTCL in case it is found at a later stage that wrong or incorrect payment has been recovered on A/C of ED paid by us. Further in case, an exemption for ED paid is agreed by Excise Authorities and ED amount is refunded to us, then equal amount shall be paid by us to the PSTCL.

In case the Excise Duty is applicable and is require to be paid extra as referred to in (a) above, the bidder should clearly indicate the present rate (in percent) applicable to their company.

The maximum rate (in percent) upto which the E.D. may be come leviabale/payable under the prevailing Rules & Regulations applicable to their company should also be clearly indicated in their tender.

In case the Excise Duty is applicable/payable, necessary certificate of Excise Duty/Excise Gate Pass, duly authenticated by the authorized representative of Central Excise

Department, shall however be furnished by the supplier alongwith each consignment. The supplier should therefore clearly indicate in their tender that whether Excise Duty Gate Passes/Certificates shall be furnished by them or not.

The firms indicating nil or concessional rate of Excise Duty in their tender will have to absorb E.D. upto full rate applicable at the time of tendering. The firms who do not agree to this stipulation or indicating E.D. as extra without indicating the applicable rate shall be loaded with Maximum rate of duty for evaluation purposes.

17. INSURANCE:

i) The rates are required to be quoted on FOR destination basis and it is the responsibility of the supplier to deliver the goods in sound condition FOR destination and for that purpose the supplier may at his option insure the material against all risks at his own cost during transit for full delivered value of the material upto destination. All works in connection with making and settling of claims, if any, with Railway Authorities and or Insurance Company shall be carried out by the Contractor for which no extra payment shall be made by the PSTCL. However, necessary assistance required in connection with making and settling of such claims, if any, shall be provided by the consignees.

ii) All damages and/or shortages during transit as covered by the insurance shall be made good immediately on receipt of such information from the consignees without waiting for settlement of claim. However, in case of apparent damages and/or shortages, the consignee shall obtain the loss/damage certificate from the Road Transport/Railway authority and send the same to the Contractors within a period of thirty days from the date of receipt of material. The Supplier/Contractors shall submit a certificate with each bill to the effect that the material has been duly insured.

iii) The consignees shall report losses and damages to the firm within 30 days of arrival of the equipment at the site. It will, however, be supplier's responsibility to prefer timely claims on the insurance underwriters and to arrange replacement thereof to the consignees.

iv) The suppliers shall be wholly responsible for the loss, shortages, and damages etc. during transit. Such shortages and damages etc. will have to be replaced/repared by supplier/ contractor free of cost immediately without waiting for maturing of the Supplier's/Contractor's claims with the Road Transport/Railway Authorities.

v) In case replacement/repair of defective material is not carried out within six months of intimation of damages, supplier shall have to pay interest at the rate of 12% per annum on the advance payments made by the Punjab State Transmission Corporation Ltd. from the

date of its payment upto the date of the re-commissioning of the equipment after replacement/repair or to the date the default is made good.

vi) In case replacement/repair of short/defective material is not made good within one month from the date of receipt of intimation from the consignee in this regard, the purchaser shall have to the option to get short/damaged material fabricated from some other source and in that case, the recovery at double the cost provided in the P.O./ Specification shall be made from supplier.

18. WARRANTY:

The supplier/Contractor shall be responsible to replace free of cost, with no transportation and insurance expenses to the purchaser upto the destination of material/equipment, the whole or any part of the material, which under normal and proper use and maintenance, proves defective in material or workmanship within 12 months from the date it is taken over by the purchaser, or 18 months from the date of despatch in respect of indigenous material, 24 months from date of shipment of imported material, whichever expires earlier, provided the Purchaser gives prompt written notice of such defects to the supplier/contractor.

Such replacement shall be effected by the Supplier/Contractor, within a reasonable time not exceeding 6 months of the intimation of defects. Supplier's /Contractor's responsibility arising out of supply of material or its use whether on warranties or otherwise shall not in any case exceed the cost of correcting the defects or replacing the defective part/material and upon the expiry of the warranty period stipulated above, all such liabilities shall terminate.

The above provision shall equally apply to the material so replaced/repared by the supplier/contractor under this clause in case the same is again found to be defective within 12 months of its replacement/ repair.

In case replacement/repair of defective material is not carried out within six months of intimation of defects, the supplier/contractor shall have to pay interest @ 12% per annum on the value of each complete operational unit of equipment beginning from the date of becoming defective upto date of its re-commissioning after replacement/repairs.

19. CHANGES:

No variation or modification or waiver of any of the terms and provisions shall be deemed valid unless mutually agreed upon in writing by both the Purchaser and the Supplier.

20. OCTROI CHARGES:

Octroi charges shall be paid extra on actual basis if applicable.

21. DESPATCH INSTRUCTIONS:

The material will be required to be dispatched as per the dispatch instructions issued by the Punjab State Transmission corporation Ltd. either according to purchase order cum contract or as intimated separately afterwards/ during the pendency of contract.

22. INSPECTION AND TEST:

The PSTCL shall inspect, examine and test equipment/material through its officials and/or through an outside agency nominated by PSTCL at the manufacturer's/supplier's work, during or after the manufacture of goods prior to despatch, on receipt of a clear notice of minimum two weeks in advance, to be reckoned from the date of receipt by purchaser. The supplier/contractor shall provide all facilities as may be required to carry out the tests in accordance with approved standards, free of cost. If the purchaser or the nominee representative desires to have one or all the tests to be got done through independent lab or test house, the charges of such lab/test house shall be borne by the supplier.

In case the inspection is waived off by the PSTCL, the supplier shall be required to submit test certificates in triplicate for approval. No material shall be dispatched without inspection and/or approval of test certificates unless so directed. Any material consumed during testing/ inspection shall be to supplier's account.

Random testing of material on receipt in the stores irrespective of the fact whether or not it was inspected before despatch shall be carried out by PSTCL and in case of any failure the entire lot shall be rejected at the risk and loss of supplier. The supplier/contractor shall be required to furnish to the purchaser office/consignees wherever necessary the following documents alongwith the consignment:-

i) Printed pamphlets catalogues	2 copies
ii) Instruction book	2 copies
iii) Drawings	2 copies
iv) Any other relevant information (to be incorporated at the time of placing the P.O.)	2 copies

In case the goods have not been inspected/tested at the manufactures works by a representative of the PSTCL, the supplier/contractor shall furnish the following certificates alongwith consignment for facility of the consignee.

- a) Type test certificate
- b) Routine test certificate (if applicable)

23. CIVIL SUIT/JURISDICTION:

All legal proceedings in connection with this purchase order/contract shall be subject to the territorial Jurisdiction of the local civil courts at Patiala only.

24. ARBITRATION:

If at any time, any question, dispute or difference, whatsoever, shall arise between the purchaser/PSTCL and the contractor/supplier, upon or in relation to or in connection with the P.O. /contract, either party may forthwith give to other, notice in writing of the existence of such question dispute or difference and the same shall be referred for sole arbitration of a nominee of the purchaser/PSTCL who shall give a reasoned/speaking award. The award of the sole arbitrator shall be final and binding on the parties under the provision of the Indian Arbitration Act, 1940 and of the rules there-under. Any statutory amendment, modification or re-enactment thereof for the time-being in force, shall be deemed to apply to and be incorporated in contract/P.O. It will not be objectionable if the sole arbitrator is an officer of the PSTCL and he has expressed his views on all or any of the matters in question of dispute or difference.

a) Upon every or any such reference, the cost of and incidental to the reference and award respectively, shall be the discretion of the Sole Arbitrator so appointed who may determine the amount thereof or direct the same to be taxed as between solicitor and client or as between party and party and shall direct by whom and to whom and in what manner the same is to be borne and paid.

b) The work under the contract shall, if reasonably possible, continue during the arbitration proceeding and no payments due or payable by the purchaser/ PSTCL shall be withheld on account of such proceedings.

25. CONSTITUTION EXPERIENCE AND FINANCIAL STANDING:

The bidders should invariably supply the following information with the tenders on relevant Annexure:

- a) Constitution and composition of the firms
 - i) If a Joint Stock company, copy of its Memorandum and articles of Association and other particular.
 - ii) If a partnership, a copy of the partnership deed, particulars of partners.
 - iii) If a proprietary concern, the standing of the proprietor and if registered with the Register of Companies/Firms, their registration No.
- b. Experience & standing in the market.
- c. Particulars of purchase order/contracts executed with the PSTCL & other Board's/government departments.
- d. Financial position;

- i) Balance sheet for the last three years, including Trading, Manufacturing, profit and Loss Account.
- ii) Bank references.

26. INFORMATION REGARDING LIST OF BANKERS THE PURCHASE DEALS WITH:

1. The Railway Receipt/Goods Receipt and invoices etc. should be sent to the authorities to be specified in the Purchase Order.
2. Any demurrage occurring as a result of sending Railway goods Receipt through a Bank other than the one with which the accounts of the Purchaser are operated will be to the account of the Supplier/Contractor.
3. No goods will be accepted by the consignees unless accompanied by challan or invoices.
4. The Punjab State Transmission Corporation Ltd. deals with State Bank of Patiala, The Mall, Patiala only. The G.R./R.R. and invoice should, therefore, be sent to Accounts Officer, Centralized Payment Cell, PSTCL, Patiala through any of these banks at Patiala. Any demurrage occurring as a result of sending RR/GR through a bank other than one with which the accounts of the PSTCL are operated will be to the account of the supplier.

27. SECURITY DEPOSIT:

- a. The successful bidders shall be required to submit security deposit for faithful execution of the purchase order/contract at the rate of two percent (2%) of ordered value rounded off to a multiply of Rs. 10/-on the higher side.
- b. Ordinarily, in the case of successful bidders, the Earnest Money received with the tender shall be converted into security deposit. If the amount of earnest money received with tender falls short, the contractor/supplier shall be required to deposit the additional amount and in case of earnest money received with the tender is more than the amount of the security deposit required for purchase order/contract, the balance shall be refunded.
- c. The bidders, having permanent deposit of Rs. 10 lacs with Transmission Organisation' and hence exempted from depositing earnest money with tender, shall also be required to submit security deposit @ 2% of the ordered value in the form of cash/demand draft/Bank Guarantee (Annexure-L) within 30 days from the award of order/contract.
- d. The following shall be exempted from depositing security against order/contract awarded to them:
 - Public Sector Undertaking owned by Punjab Govt./Central Government/other state Govt. supplying material directly through Units owned by them. Exemption shall not be applicable for supply of material through private unit/manufacturer.

- Manufacturers/suppliers of proprietary items.
- e. On faithful execution of purchase order/contract in respects, including warranty period, the security deposit of the contractor/supplier shall be released by the purchaser. The refund shall be made within 15 days from the issue of release order.
- f. In the event of default on the part of the contractor/supplier in the faithful execution of purchase order/contract, his security deposit shall be forfeited. The forfeiture of security deposit shall however, be without prejudice to any other rights arising or accruing to the PSTCL under relevant provisions of the purchase order/contract like penalty/damages for delay in delivery including suspension of business dealings with PSTCL for a specific period.

28. CANCELLATION:

The purchaser reserves the right to cancel the purchase order as a whole or in part at any time or in the event of default on the part of the supplier prior to the receipt of information regarding taking in hand of the manufacture of material against the Purchase order/despatch of material to the consignee.

29. CONTRACT AGREEMENT:

The detailed order issued in accordance with agreed terms & conditions accepted/acknowledged by the firm shall itself form valid contract along with subsequent amendment, if any, and shall be construed and operated as such in terms for of Indian Contract Act-1872 as amended up to date.

It will be obligatory on the part of the successful Bidder to execute within 30 days of the receipt of the detailed order, a legal Contract agreement on non-judicial stamp paper of Rs. 15/- only according to stamp act. The signatory on behalf of the successful tender shall also supply the power of attorney in his favour duly attested by Notary Public. Two copies of contract will be executed between the supplier & purchaser. One copy duly executed will be returned to the supplier.

After execution of contract, contractor shall supply if required sufficient number or extra copies of contract, specification drawing/drawings, technical literature, bill of material, as finally approved by the purchaser. The cost of these items shall be deemed to have been included in the tender price and the tenderers will not be entitled to any extra payment on this account.

The tenderer in the interest of execution of contract within stipulated time must offer his comments against each and every clause of this specification to which he does not agree so that decision could be taken by competent authority to all deviations. The clause, against which no comments are offered, shall be considered to have been agreed to by the tenderer

and shall have to be included in the contract agreement to be executed/signed by the successful tenderer.

30. ORDER PREFERENCE:

The PSTCL would allow an order preference to such Bidder whose works are situated within the State of Punjab as per the procedure laid down as under:

- a. The rate of Punjab firms would be de-escalated by 15% for all the Units. Their position in the comparative statement shall be shown accordingly for the purpose of comparative statement.
- b. The zone of consideration for placing of purchase order/contract would there after be demarcated taking into account the quantity of material required as per NIT and the quantities offered by the different bidders subject to the condition that for Punjab based firms upto 20% of the total quantity will be reserved provided they fall in the consideration zone after application of price differential. However, where the Punjab firm qualifies amongst the lowest bidder on the quoted rate, they shall from part of the original quoted list for purpose of placing orders.
- c. The purchase on the Punjab firm claiming order preference and falling within this zone would be placed on lowest rate of the firm not claiming order preference within the zone of consideration or on the concerned Punjab firms own quoted rate whichever may be lower.
- d. In the event of zone of consideration ending at the de-escalated rate tendered by a firm claiming order preference, the rate to be allowed to such firms shall be the next quoted rate by the firm not claiming order preference or the concerned firm's own quoted rates, whichever may be lower.
- e. The Punjab based firms claiming order preference shall be required to furnish an undertaking in prescribed form (Annexure-J) on a non-judicial stamp paper of appropriate value to the effect that they shall execute the order if placed on them under 'Order preference' as per tender specification. Such undertaking should be submitted by the Punjab based tendering firms latest by the close of the day of opening of the tenders. In case no such undertaking is furnished by the Punjab based firms who are otherwise eligible for claiming 'Order Preference' as per the tender specification, their tender shall not be considered for placement of any order under order preference. In the event of refusal by the Punjab based firms to execute the purchase order/contract at their quoted rates or offers made under order preference as per 'c' and 'd' above as the case may be, after having furnished the above undertaking their Earnest Money shall be forfeited apart

from initiating further administrative action, such as suspending business dealings, blacklisting etc.

31. FAKE INSPECTION CALL:

If the firm does not get the material inspected when the inspecting officer visits their works after receipt of inspection call on one pretext or the other or the material fails during inspection, it will have to bear TA/DA for the journey performed by such an inspecting officer which shall be Rs. 15,000/- (outside Punjab) & Rs. 5000/- (within Punjab) per visit of each officer. Besides the recovery against each fake call, a letter of warning shall be issued and it shall be counted towards firm's performance for all intents and purposes.

32. QUALIFYING CRITERIA:

To be technically suitable the bidders should have manufactured and delivered the Line Traps to an Electricity Board/ Utility and performance certificates issued by two end users are to be submitted with the tender documents.

Though no firm will be refused tender documents but qualification requirement and technical qualification conditions will be clubbed together and shall be considered for the purpose of technical evaluation.

33. WORKS APPRAISAL:

If some new firm submits tender which has never supplied the tendered item to PSTCL earlier, its works appraisal shall be carried out before opening of Part-III (Price Bid) to ascertain whether the offer of the firm is technically/commercially acceptable or not. The cost of the works appraisal shall be born by the firm and the same shall be deposited by the firm within seven days from the issue of notice in this regard failing which the offer of the firm shall not be processed further. The charges of Rs. 50,000/- (for firms located outside Punjab) and Rs. 25,000/- (for firms located inside Punjab) shall be levied for the purpose. In case the report is negative, these charges will be repeated. The above charges are non-refundable, and works appraisal of the firm does not entitle the firm for placement of order.

34. SUBMISSION OF DOCUMENTS FOR EXPEDITIOUS PAYMENTS

In order to ensure expeditious payment of bills, the following may be followed:

- D) The bills alongwith a copy of receipted challan must be submitted in the office of AO/CPC, PSTCL, Patiala and this office simultaneously within a period of seven days from the date of receipt of the material

II) The following documents / information should also be supplied directly to AO/CPC, PSTCL, Patiala in addition to this office.

- i) Copy of Bank Guarantee
- ii) Copy of Inspection Call letter.
- iii) Inspection report / waiver reference if any.
- iv) Dispatch Instructions if separately given.

Dy. CE/Plg. & Comm.,
PSTCL, Patiala.

Part-2**TECHNICAL SPECIFICATION FOR LINE TRAPS**1) **GENERAL:**

The Punjab State Transmission Corporation Limited is strengthening the existing Power Line Carrier Communication System by connecting various power houses and substations coming up under transmission work plans and to carry out modifications in the existing transmission lines. Adjustable wideband tuned line traps of 1250A/1.0mH rating are required for 220 KV Lines in series at their termination on sub-stations or power houses to prevent loss of carrier signal power in the range of 50 KHz to 500 KHz under all power system conditions and to minimize interference from carrier signaling system. Their impedance shall be negligible at power frequency (50 Hz) and shall be relatively high over carrier frequency band 50-500 KHz. The line traps shall be broad band tuned for entire carrier frequency range as indicated in Para-6(III) carrier frequency.

2) **SCOPE:**

This specification covers the design, manufacture, testing at manufacturer's works supply and delivery on F.O.R. destination basis of 1250A/1.0mH adjustable wideband tuned line traps with tuning devices and protective devices, Assistance/guidance during testing and commissioning at site if required and rectification/replacement thereof during warranty period.

3) **REQUIREMENT:**

The requirement of 1250A/1.0mH tuned line traps complete with three /four point suspension along with tuning and protection devices and set of metallic connectors suitable for connection to ACSR/AAAC conductors of 0.4/ 0.5 Sq. inch copper equivalent respectively is as per Annexure-A (Schedule of Requirement and Delivery).

4) **REFERENCE TO STANDARDS:**

This specification makes reference to the following standard specifications. When standard is quoted by its number only, it means its latest issue.

1. IS 8792-1978
2. IS 8793-1978
3. IEC 353-1989:10
4. IEC 99-1
5. IS 3070 (Part I)-1970
6. IS 5561-1970
7. IS-2026 Part-I, Thermal

5) **CONDITIONS FOR TRANSPORTATION, STORAGE AND OPERATION:**

- i) Line traps should be suitable for outdoor installation and exposed to sunshine, rain, fog, hailstorm, frost, snow ice etc.
- ii) The following tropical climatic conditions encountered in Punjab should not have any adverse effect on the performance over short and long period:-

a) Max temperature of Air	+50 °C (IS-8792)
b) Min temperature of Air	- 5 °C
c) Max variation between day & night temperature	
	winter 20 °C
	summer 25 °C
d) Max relative humidity	100%
e) Altitude above mean sea level up to	1000 Mtrs.
f) Max wind pressure	195 Kg/Sq Mtr
h) Earthquake incidence	Sites susceptible to earthquake

iii) The temperature of cooling medium i.e. air during normal operation may be taken as - 5 °C to 50 °C as per IS-8792 and not exceeding the following limits :-

Daily Average	+40 °C
Annual Average	+32 °C

iv) The power system has a rated frequency of 50 Hz \pm 3 Hz. The power frequency currents and voltage in the system have approximately sinusoidal waveform.

v) During shipment and storage, the equipment should be able to withstand extreme climatic conditions of -5 °C to +55 °C without any damage or deterioration occurring/developing in the equipment/components.

6) TECHNICAL DETAILS

D) LINE TRAPS CONSTRUCTION

(a) **MAIN COIL:** The line trap shall consist of main coil designed to carry continuously the rated current without exceeding the limit of temperature rise. The main coil of these line traps shall be single core inductors of dry type with natural air cooling and having inductance of 1.0mH for 1250A line traps and as per requirement given in Clause (3) above. The main coil shall be of solid construction and having high strength and rigidity to carry continuously the rated current and fault current during system fault conditions without exceeding the limit of temperature rise. Its impedance shall be negligible at power frequency (50 Hz) so as not to disturb power transmission but shall be relatively high over the frequency band appropriate to carrier transmission. The resistive component of impedance of the line traps within its carrier frequency range shall not be less than 570 Ohms.

b) The line traps shall be suitable for the system voltage mentioned under requirement of line traps.

c) **RADIO INTERFERENCE VOLTAGE (RIV):** The visual corona extinction voltage should as per relevant ISS/IEC.

d) **CURRENT RATING:** Line traps should be designed to carry rated continuous current of 1250A for 220KV to withstand the effect of external short circuit currents under severe fault conditions without any damage. They should be capable of withstanding the electromagnetic forces and thermal effects of the rated short time current for a duration of at least 1 sec. from previous operation at rated continuous current at specified air temperature. The tests shall be performed as per the provisions of clause 19.0 of IEC-353-3989.10 rated short time current shall be as follows:-

Rated continuous current	1250A
Dynamic current limit (Peak)	100 KA
Rated short time current (1 sec)	40 KA

e) **EMERGENCY OVERLOAD CAPACITY:** The line traps shall be designed to withstand excess of rated continuous current without damaging the line trap/shortening of its useful life when the overload is applied after normal operation at rated continuous current. Emergency overload current as %age shall be as under:-

Ambient temperature in degrees	Emergency Period		
	15 min	30 min	60 min
+55 °C	135	125	115
+40 °C	140	130	120
+20 °C	145	135	125
0 °C	150	140	130

f) **TEMPERATURE RISE:** The temperature rise of any part of a line trap under rated continuous current conditions shall not exceed the limits given in table III IEC-353-1989:10 reduced by 10 deg C for Class F Insulation. Thermal behavior of the main coil under short circuit conditions shall conform to sub Clause 9.2 of the IEC-353:1989.

g) **TERMINAL CONNECTORS:** The incoming and outgoing terminals should be arranged at the top and bottom of the main coil respectively on opposite sides. The terminals should be preferably cylindrical in shape and of proper current rating corresponding to straight equipment connectors for connection of line traps to ACSR Conductors as specified in the requirements should be included. These should conform to routine/type tests as per IS-5561 (1976). No part of clamp or connectors (including Hardware) shall be of magnetic material.

Clamp/Connectors shall be designed to withstand continuously 1.5 times the maximum current rating of line traps. The connectors should be able to take 0.4 and 0.5 Sq. inch/ACSR conductors for 1250A line traps. All castings shall be free from blow holes, surface blisters, cracks and cavities. All sharp edges shall be blunted & rounded off.

h) **LINE TRAP MOUNTING AND SUSPENSION SYSTEM:** The line traps should be suitable for outdoor 3/4 point suspension mounting type for 1250A from over-head gantry should be provided which shall be mechanically strong enough to withstand the stresses due to maximum wind pressure of 195 Kg/Sq. Mtr.

Requisite suspension hardware and non magnetic hook/link of adequate length and tensile strength to provide necessary magnetic clearance between the line trap and suspension hardware shall be required to be supplied. String insulation disc shall however not be in the scope of supply of suspension arrangement.

i) **CORONA RINGS, BIRD BARRIERS:** The line traps should be with corona rings suitable for 220 KV system voltages for 1250A Line traps. Strong non-metallic bird barrier duly fixed with proper quality bolts at various points of fibre glass material should be provided on both upper and lower sides of line traps. To prevent the entry of birds, foreign

elements in the cylindrical portion of line traps, strong fibre glass coverage should be provided on both top and bottom of the coil duly fixed with proper quality bolts at various points. The bolts of bird barrier should be strengthened with higher size of flat washer or square strip/clamp for proper fixing. The bird barriers must flush with outer surface so that there is no scope of bird entry with outer surface. No entrance to the line trap shall admit a sphere having diameter of 16mm. The thickness of the fibre glass sheet should be so designed so as to withstand rough handling during transportation and erection. Bird barrier should be non-metallic of thickness 4.0 ± 0.5 mm. The thickness of fibre glass sheet should be indicated in the offer. The sheet shall however allow circulation of natural air through the cylindrical coil.

II) TUNING DEVICES:

i) The line traps should be equipped with suitable tuning devices to give the desired pass band characteristics. The tuning devices shall be shunt connected to the main coil and protective devices. The tuning shall serve the purpose of obtaining relatively high impedance for one or more frequencies or frequency bands. The tuning device shall consist of capacitors, inductors and resistors.

ii) The tuning device shall be so mounted that it can be easily changed without removing the line traps.

iii) The tuning device shall be tuned and arranged in such a manner that there should not be any significant alteration in the line traps blocking characteristics or any physical damage due to either temperature rise or magnetic field of the main coil at rated continuous current or rated short time current. The line traps should be designed for giving adjustable bandwidth by simple change of connection on terminal blocks without removing the tuning device or line trap.

iv) Tuning pot/lightening arrestor should be properly installed/wired in the line traps before dispatch. In case, it is supplied loose by the firm, it will be the duty of the firm to get these properly installed/wired in line traps at PSTCL store at Ludhiana by deputing their representative.

III) CARRIER FREQUENCY BANDWIDTH BLOCKING REQUIREMENT:

The preferred bands for adjustable tuning devices for different ratings of line traps should be as following:-

1.0 mH	50-90 and 90-500 KHz
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IV) BLOCKING IMPEDANCE/TAPPING LOSS:

The tapping loss and rated tapping loss should not exceed 2.6 db corresponding to line trap impedance of 1.4 times the characteristic impedance of a line of 400 Ohms for phase to ground and 600 Ohms for phase to phase.

V) PROTECTIVE DEVICES:

The line traps should be equipped with protective devices in the form of surge arrestors. The lightening arrestor shall be station class current limiting active, gap type complying with IS-3070 (Part I) & IEC-99-1:1970 Part I) having nominal discharge current of 10 KA and rated voltage of 9 KV minimum.

The protective device should be so designed and arranged that there will be no significant change in its protective function nor any physical damage should result from either temperature rise or magnetic field of the main coil at continuous current or rated short time current.

It shall neither enter into operation nor remain in operation following transient actuation at power frequency voltage developed across the line trap by rated short time currents. The rated voltage of the protective device shall be higher than this voltage. The protective device shall be shunt connected to the main coil and the tuning device.

VI) INSULATION LEVEL:

The insulation of the main coil and the tuning device shall be adequately rated for:

- i) The voltage developed across the line trap at the rated power frequency by rated short time current.
- ii) The voltage developed across the line trap with shunt connected protective device when subjected to surge having wave form slope of 200 KV/Micro second & amplitude which ensures front of wave spark over the protective device.

VII) SUSPENSION ARRANGEMENT:

Each line trap shall be provided with 2 Nos. lifting hooks, one on each end.

7) TYPE TEST:

- i) The line traps shall meet all the requirements of the tests as per IS-8793-1978 or IEC publication 353-(1989-01).
- ii) The line traps offered must be type tested. Complete sets of test certificates for the following type tests as per IEC-353 or IS-8793-1978 should be submitted along with the tenders.
 1. Measurement of inductance of the coil.
 2. Measurement of blocking impedance.
 3. Measurement of tapping loss.
 4. Measurement of temperature rise.
 5. Insulation tests.
 6. Short time current test.
 7. Corona extinction voltage test (If Applicable).
 8. Radio interference voltage measurement.
- iii) Line traps that have already been tested in some standard laboratory and bear ISI or IEEMA certification shall be preferred. However, in case of new type of designs, delivery schedule should be indicated in the tender without whom tenders are likely to be rejected. While testing PSTCL engineers shall be associated as a part of the contract.
- iv) In any case, some of the type tests may have to be repeated as sampling tests. Tenderer should confirm in their agreement in the tender to carry out any of the specified type tests as sampling tests on any equipment at the time of inspection without any extra charges.

v) The following routine tests shall be conducted as per IEC-353 (1989) on all the line traps during inspection:

1. Measurement of inductance of the coil.
2. Measurement of blocking impedance.
3. Measurement of tapping loss.
4. The tests on the protective device shall be carried out in accordance with the IS-3070 (Part I) or IEC pub 99-1.

8) **GUARANTEED TECHNICAL PARTICULARS:**

The desired technical particulars of line traps, tuning device and protective device are stated in Annexure-H.

The tenderer should submit complete technical and guaranteed particulars of complete line traps offered in a similar Performa along with any additional or special information. If there is any contradiction in technical specification and in GTP, then GTP will be considered as final.

The particulars given in Annexure-H may not merely be copied.

Any variation from the specification should be clearly indicated and lucidly explained in the tenders. A tender in which the requisite particulars are not given is likely to be rejected out rightly.

9) **RATING PLATES:**

The main coils, the tuning device and the protective device shall be provided with rating plates of weather proof material as laid down in IS-8792 or IEC-353 and fitted such that they are readily visible. The name of the purchaser i.e. Punjab State Transmission Corporation Ltd, Purchase Order No. and Date and the year of manufacturer shall also be included in the rating plates including rating plate for lightening arrestor/tuning device.

10) **INSTRUCTION MANUAL & DRAWINGS:**

i) The tenders should be complete with detailed literature and drawings and test certificates for all the equipment offered. These should include complete description of line traps, protection devices and tuning devices, part lists and instructions for handling, storage, testing transportation, commissioning, maintenance, complete circuit diagrams showing component values and clear drawings showing, the interconnection of terminals on terminal block of tuning devices for getting different band widths.

ii) In case of order, two complete sets of literature and drawings and test certificates for the equipment should be submitted within 15 days for detailed scrutiny and approval.

iii) In case of order, similar sets and inspection reports, should be sent along with each equipment or with the dispatch documents to the consignee.

11) **CONSIGNEE:**

The equipment is to be consigned to the Asstt. Executive Engineer/CO&C Store Sub-Division, Near Old Sabzi Mandi, 66KV Sub-Station, G.T. Road, PSTCL, Ludhiana (RAILHEAD; LUDHIANA, NORTHERN RAILWAY).

12) RESPONSIVENESS AND ACCEPTANCE OF SPECIFICATION/TENDER:

This specification will form the basis for evaluation and acceptance of tenders. Tenderers should therefore endeavor to submit fully responsive offers for equipment meeting the requirements of this specification. Any modification required for their standard equipments to fall in line with this specification must be included.

Any departure from this specification, if accepted will be confirmed in writing by the purchaser prior to the completion of the order. Acceptance of this specification without comments should be taken to indicate that the tenderer agrees to comply with the requirements & conditions contained herein.

The purchaser will have the right to reject all or any equipment/material which does not conform to the requirements and conditions laid down in this specification.

The purchaser also reserves the right to accept or reject any offer without assigning any reasons.

13) PRICES:

The prices should be quoted strictly according to the terms and conditions laid down in Part-1 of the specification.

Dy. CE/Plg. & Comm.,
PSTCL, PATIALA.

SCHEDULE OF REQUIREMENT & DELIVERY

1) REQUIREMENT:

1250A/1.0mH tuned line traps complete with three point suspension along with tuning and protection devices and set of metallic connectors suitable for connection to ACSR/AAAC conductors of 0.4 and 0.5 Sq. inch copper equivalent= 70 Nos.

2) DELIVERY:

“Ordered quantity shall be supplied in three consignments as under:-

Description	Within 2 months of date of Approval of Drawings	Within 2 months thereafter	Within 3 months thereafter
1250A/1.0mH Wave Traps	40%	30%	30%

Drawings shall be submitted for approval within 15 days of receipt of PO.”

The tenderers should confirm their agreement to schedule the manufacture and delivery of different items to meet actual requirements in the field to reschedule their deliveries if so required by the purchaser later on.

However, the Purchaser reserves the right to divide the tendered quantity to have material as per requirement. In case the order is placed on more than one firm, the delivery period shall be changed on pro-rata basis.

NOTE: Early supply may be taken keeping in view the requirement of works.

**PERFORMA FOR ELICITING INFORMATION FOR APPRAISAL OF
FIRM'S CAPABILITY AND CAPACITY TO MANUFACTURE ITEM(S) EQUIPMENT
AS PER REQUIREMENTS OF PSTCL TENDER .**

1. **A) NAME OF THE TENDERING FIRM:**
 - i. Complete Address of the office:
 - ii. Telegraphic Address
 - iii. Telephone Number
 - iv. E-mail
 - v. Fax Number
- B) NAME OF THE TWO RESPONSIBLE PERSONS:**
 - i. Officer with Designation (Managing Director/Partner/Chief Engineer/Works Engineer etc.) alongwith their address, Income Tax Permanent Account No.
 - ii. Day on which weekly holiday is observed in the office
- C) COMPLETE ADDRESS OF THE WORKS:**
 - i) Telegraphic Address
 - ii) Telephone Number
 - iii) E-mail & Fax No.
 - iv) Name of the two Responsible Persons with Designation (Managing Director/ Partner/Chief Engineer/Works Engineer etc.)
 - v) Day on which weekly holiday is observed
- D) NAME , ADDRESS & TELEPHONE NO. OF TWO REFERENCE HAVING FACILITIES OF P&T TELEPHONE**

i) Name	i) Name
ii) Address	ii) Address
iii) Telephone No.	iii) Telephone No.
2. **YEAR OF ESTABLISHMENT.**
3. **CONSTITUTION OF THE FIRM:**
 - i) Private or Public Ltd.
 - ii) Registered under the Companies Act or any other act , giving registration No. & date
 - iii) Year of establishment
4. **FINANCIAL POSITION**
 - i) Land (Area & Value)
 - ii) Building(Cover & Value)
 - iii) Plant & Machinery
 - iv) Total Drawing Limit from Bank
 - v) Annual Financial Turn Over (duly Audited for the last three years)
 - vi) Latest Income Tax Clearance Certificates
5. **MAN POWER**
 - i) Graduate Engineer(s)
 - ii) Diploma Holders
 - iii) Skilled Workers
 - iv) Unskilled works

6. Production assessment:
 - i) Detail of Plant & machinery installed
(Please attach separate sheet, if necessary)
 - ii) Detail of Raw Material
 - iii) Stock in Hand
 - iv) Source of Raw Material
 - v) In case, any Raw Material are required to be imported, indicate arrangement for procurement
 - vi) Quality Control exercise in procurement of raw material
7.
 - a) Detail of manufacturing process
 - b) Scheme of quality control
 - i) During manufacturing
 - ii) At the finish stage
 - c) Whether any record is being maintained in respect of Quality Control exercised.
8. Details of testing facilities available with the firm (Information may be supplied in the enclosed performa)
9. Detail of order executed/ under execution during the last three years
 - a. With PSTCL
 - b. Other State Electricity Utilities/State Govt./ Govt. of India and their institutions/undertakings
 - c. Other important customers.
10.
 - a) Whether the firm is licensed to use ISI mark or any other Govt. quality mark (copies of latest test certificates issued by Govt. laboratories and recognized test houses be attached)
 - b) Whether items offered conform to ISS or any other internationally recognized standards, if so give reference
11.
 - (a) Manufacturing capacity of the firm per month (Nos)
 - (b) Current commitments / order booking of the firm with other SEBs/ State utilities / Pvt. Concerns (Nos)
 - (c) Spare monthly capacity available for the instant Tender Enquiry of PSTCL (Nos)

Signature of authorized

Signatory of the firm with stamp

- Note:
1. Please attach additional sheets bearing Authorized signatory's signatures & stamp where required.
 2. Copies of documents attached / uploaded with the Performa should be attested by firm's authorized person with stamp mark of the firm.
 3. Detail of documents submitted shall be marked with page no. and index may be submitted accordingly.

**SCHEDULE OF GENERAL INFORMATION
(TO BE FILLED BY THE BIDDER)**

- | | | |
|-----|---|-------|
| 1. | Name, address & telephone Nos. of manufacture/
Principals. | _____ |
| 2. | PAN No.& proof of filling Income Tax return for
last 3 years of manufacturer/principals. | _____ |
| 3. | Name & address of supplier/ firm./company. | _____ |
| 4. | PAN No.& Income Tax return for last 3 years of
supplier/firm/company. | _____ |
| 5. | Name address & telephone no. of
Director/Partners/proprietors. | _____ |
| 6. | PAN No.& proof of filling income tax return for
last 3 years of Director/ Partner/Prop. | _____ |
| 7. | Telegraphic address. | _____ |
| 8. | Turnover of the firm for the last 3 years. | _____ |
| 9. | Bank references. | _____ |
| 10. | Testing facilities available at works for routine
and acceptance tests (furnish details of testing
equipment). | _____ |
| 11. | Name of Works Manager/Managing Director. | _____ |
| 12. | Telephone No. of the office at manufacture
works/supplier to whom reference should be made
for expeditious technical co-ordination. | _____ |
| 13. | Whether holding BIS marking license, if yes,
enclose scanned copy. | _____ |
| 14. | Whether the material carries State Quality Mark,
if yes, enclose scanned copy. | _____ |
| 15. | Memorandum and Article of Association of
private Ltd., or Public Ltd., company/partnership
deed in case of partnership firm (To be uploaded). | _____ |

Dated:

SIGNATURE OF BIDDER
NAME
DESIGNATION
SEAL OF FIRM/COMPANY.

UNDERTAKING FOR NON PAYMENT OF COMMISSION ETC.

- i) We will not pay any commission etc. or engage any commission agent for dealing with PSTCL in any matter including purchase of equipment etc.
- ii) That no officer/official of the PSTCL will deal with any person who claims to be a commission agent or liaison agent of any company and that the officers/officials of the PSTCL must deal only with persons directly employed by us.

Dated:

SIGNATURE OF BIDDER
NAME
DESIGNATION
SEAL OF FIRM/COMPANY.

GENERAL COMMERCIAL PARTICULARS
(Following information must be uploaded by the bidders)

1	Excise Duty	
i)	Rate considered in quoted prices	@
ii)	In case Nil / Concessional rate of ED is applicable then maximum rate of ED applicable at the time of tendering will be absorbed by the bidder (Yes/No/NA)	
2.	CST / VAT	
i)	Rate considered in quoted prices	@
ii)	In case Nil / Concessional rate of CST/ VAT is applicable then maximum rate of CST/ VAT applicable at the time of tendering will be absorbed by the bidder (Yes/No/NA)	
3	Entry Tax/Advance Tax (if applicable)	@
4	Validity of offer (min. 120 days)	
5	Whether Schedule of delivery as per specification (Yes/No)	
6	Whether Terms of Payment as per specification (Yes/No)	
7	Nature of Price	Firm
8	<i>Any other information to be mentioned by the bidders</i>	

SCHEDULE OF FINANCIAL & TECHNICAL RESOURCES OF THE TENDERER

1. Financial status and experience.
 - (a) Annual business turnover for the last 3 years.
 - (b) A list of purchase orders for the manufacture of Line Traps executed/obtained during the period giving purchase order no. Qty. & name of authorities any may be attached.
 - (c) A list of orders in hand with quantity and their delivery schedule.
 - (d) Last year's production month wise.

2. Technical.
 - (a) Location of plant.
 - (b) Brief details of Plant and machinery available.
 - (c) List of testing instruments.
 - (d) ISO/others certifications, if any

Signature of tenderer.

PRICE SCHEDULE PROFORMA

Please quote the prices after clearly reading the clause of specification on the following format

1. Quantity offered (Item wise).
2. Unit Ex-Works price (including packing & forwarding charges)
3. Split up of EX-works:-
 - a) Cost of Raw material
 - b) Labour component
 - c) Over head expenses
4. Excise duty @.....% of Col. 2 above.
5. Total price including ED i.e.(2+4).
6. CST/VAT @.....% on Col. 5 above.
7. Total Quoted price (5+6).
8. Freight & Insurance
9. FOR Destination price (7+8).
10. Delivery
11. Terms of payment
12. Validity
13. Whether acceptable to pay security in the form of DD within 30 days of receipt of order.
14. Deviations from Punjab State Transmission Corporation Limited standard terms & Conditions, if any may be clearly mentioned.

NOTE:

- a) The prices quoted should be FIRM.
- b) The proforma for price schedule should be duly typed and hand written prices shall not be accepted.
- c) The bidders should not indicate discount on the quoted price for which split up has been given. However, quantity/payment discount can be given by the tenderer in the main tender (i.e. part relating to general terms & conditions).
- d) Any firm offering discount on the quoted price or after the opening of Tender will be out rightly rejected.

Signature of Tenderer
with stamp of the firm Date:

Place:

GUARANTEED TECHNICAL PARTICULARS OF LINE TRAPS		
1.	Rated continuous current	
2.	Rated inductance	
3.	Qty required	
4.	Nominal System voltage on which line traps are to be used	
5.	Highest system voltage	
6.	Power frequency voltage	
7.	Whether tuning device required	
8.	Type of line traps	
9.	Band width to which line traps to be used	
10.	Line Characteristic impedance	
11.	Minimum resistive component of blocking impedance within band width.	
12.	Maximum tapping loss & rated tapping loss within rated band width of line traps (for 400 Ω P-G impedance of single conductor line).	
13.	Designed ambient temp. range	
4.	Rated short time current (1 Sec)	
15.	Dynamic current limit (Peak)	
16.	Rated discharge current of protective device	
17.	Type of mounting	
18.	Bird barrier to be provided or not.	
19.	Corona rings to be provided	
20.	Thickness of the fibre glass	
21.	Conductor Size	
22.	Type of insulation	
23.	Visual corona extinction	
24.	Radio interference voltage	
25.	Ultimate tensile strength	
26.	Protective device: a) Mention the type of Protective device b) Rated voltage c) Rated discharge The bidder shall also indicate continuous current rating of the Line Trap at 65 °C.	
27.	Any other information.	

SCHEDULE OF DEVIATIONS:

A) All the technical deviations from PSTCL specification must be given hereunder; if no technical deviations are given in this schedule then it will be presumed that there are no technical deviations from PSTCL's specification.

Sr.No.	Details of deviations from Technical Specification	Remarks

Signature of tenderer

B) All the deviations from PSTCL's general Terms and Conditions must be mentioned hereunder otherwise it will be presumed that there are no such deviations and the material shall be supplied as per PSTCL specification and General Terms and Conditions.

Sr.No.	Details of deviations from General Terms & Conditions of specification.	Remarks

Signature of tenderer

UNDERTAKING FORM FOR ORDER PREFERENCE

(TO BE ENTERED ON A NON-JUDICIAL STAMPED PAPER OF APPROPRIATE VALUE).

We _____ state that our works are situated in the state of Punjab and we claim “Order Preference” as stipulated in the PSTCL tender specification No. _____ due on _____ against which we have submitted our tender No. _____ dated _____. We undertake to execute the order/contract if placed/awarded on to us even by counter offer at the rates worked out by Punjab State Transmission Corporation Ltd. in accordance with its Purchase Regulations. It is further understood that in the event of refusal by us or failure on our part to execute the order/contract (full or part) placed/awarded on to us under “Order Preference” on any account what-so-ever, the Punjab State Transmission Corporation Ltd. shall have the right to forfeit the earnest money deposited by us and we shall have no claim for the refund thereof. The Punjab State Transmission Corporation Ltd. shall also have the right to suspend business dealing with us and to black-list our firm, without prejudice to other rights accruing to the Punjab State Transmission Corporation Ltd. under the purchase Order/Contract, if placed/awarded on us.

Signature of
Constituted attorney.

CONTRACT AGREEMENT FORM

(TO BE ENTERED ON NON-JUDICIAL STAMP PAPER WORTH Rs. 15 ONLY)

This contract agreement made this _____ day of _____ in the year _____ between the Punjab State Transmission Corporation Ltd., herein after called 'Purchaser' and M/s. _____ having their Regd. office at _____ herein after called Contractor, for the supply and delivery/construction of in accordance with Purchaser's Enquiry No. _____ dated. _____ and Contractor's Proposal No. _____ dated. _____.

This is in confirmation of the advance acceptance notified in the Purchaser's letter No. _____ wherein, the Purchaser has accepted the proposal of the contractor for supply and delivery/construction of _____ as per purchase/work order No. _____ dated. _____.

In view of the foregoing, the Purchaser and the Contractor have agreed to the scope of work and the terms and conditions of the order settled between them.

The NIT/ tender specification, the Contractor's proposal and related correspondence and the P.O. acknowledged/accepted by the Contractor form part of this agreement.

This agreement contains _____ pages. In witness where of the parties here to have affixed their signatures on the day, month and the year written as above.

CONTRACTOR.

PURCHASER

PERFORMA FOR BANK GUARANTEE

(TO BE EXECUTED ON NON-JUDICIAL STAMP PAPER OF THE APPROPRIATE VALUE)

BANK GUARANTEE NO. _____ DATED _____.

1. The bank of _____ hereby agrees un-equivocally and unconditionally to pay, within 48 hours, on demand in writing from the Chief Engineer/TS, PSTCL or any officer authorized by him in this behalf, of any amount upto and not exceeding Rs. _____ (in words Rupees _____) to the PSTCL on behalf of M/s. _____ who have entered into a contract or have unconditionally accepted for the Purchase Order No. _____ dated _____ for the supply of material _____ for order value of Rs. _____.
2. This guarantee shall be and binding on this bank upto and including _____ and shall not be terminable by notice or on account of any change in the constitution of the Bank or the firm of contractor/suppliers or by any other reasons what-so-ever and our liability hereunder shall not be impaired or discharged by any extension of time or variation of alternation made, given, conceded or agreed with or without our knowledge or consent by or between the parties to the said contract/purchase order.
3. Our liability under this Guarantee is restricted to Rs. _____ (in word Rs. _____). Our guarantee shall remain valid until _____.
4. We hereby agree that any claim or dispute arising under this deed shall fall with the jurisdiction of competent courts at Patiala.

We hereby further declared that this Deed has been executed by our lawfully constituted attorney legally competent to sign and execute such deeds.

Signature _____

For Prop. _____

Bank. _____