OFFICE OF THE CHIEF ENGINEER /TRANSMISSION SYSTEM,
COMMUNICATION DESIGN,
SHAKTI SADAN, PSTCL, THE MALL, PATIALA

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SPECIFICATION NO: STQ – 8025

SPECIFICATION FOR PROCUREMENT OF DIGITAL LEVEL METER CUM OSCILLATORS.

DUE DATES & TIME:

I)	LAST DATE & TIME FOR DOWNLOADING OF TENDER SPECIFICATION	: 16.05.2017 Upto 17:00 Hrs.
II)	LAST DATE & TIME FOR RECEIPT OF TENDERS	: 19.05.2017 Upto 12:00 Hrs.
III)	DATE & TIME OF OPENING OF TENDERS	: 19.05.2017 Upto 12.30 Hrs

Cost of tender documents: ₹1000/- (₹ One Thousand only)

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

NOTE: 1) ONLY FIRM PRICES MAY BE QUOTED. BIDS WITH VARIABLE PRICES SHALL BE REJECTED.

2) Cost of specification i.e. Rs. 1000/- in the form of Demand draft in favour 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.

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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.
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 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	EMD, for 100% qty.
1	DIGITAL LEVEL METER CUM OSCILLATORS	₹90,000/-

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. <u>Offer of the firms who quote for less than 25% of the NIT quantity are liable to be rejected.</u>
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, The Mall, 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-___".**

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 separate 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**	Submit Copies
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 Qualifying 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 Charted 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**	Submit in separate sealed envelop
19	Annexure-J Performa for Order Preference		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 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 System 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 leviable 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.
1	DIGITAL LEVEL METER CUM OSCILLATORS	₹ 90,000/-

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. <u>INTIMATION TO ACCOUNTS OFFICER (CPC) AND CONSIGNEE</u>:

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, (Communication Design), Shakti Sadan, 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) <u>Central Excise duty</u>:

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 leviable/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/repaired 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/SPARE PARTS :

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 complete equipment shall be guaranteed by supplier/Contractor for trouble free operation for a period of 24 months from date of receipt and acceptance and supplier/Contractor shall be responsible for free replacement/ repair of defective parts during this period .Moreover availability of spare parts for a period of 10 years shall be guaranteed in the tender.

Such replacement/ repair of defective parts 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/repaired by the supplier/contractor under this clause in case the same is again found to be defective within 24 months of its replacement/ repair of defective parts.

In case replacement/repair of defective parts 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. <u>CIVIL SUIT/JURISDICTION</u>:

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. <u>ARBITRATION</u>:

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, 1996 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. <u>FAKE INSPECTION CALL</u>:

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. <u>QUALIFYING CRITERIA</u>:

To be technically suitable the bidders should have:-

1)- Supplied/ delivered atleast 5 no. Level meter cum oscillator in last five years to an Electricity Board/ Power Utility.

2)- The firm will submit Performance certificates issued by atleast two Govt. sector Utilities /Public sector Utilities or firms of credible repute are to be submitted along with the tender documents.

In case in-built Psophometer is not available in Level meter cum Level Oscillators then it can also be provided /supplied externally by the qualified firm without any extra cost. Such Psophometer will meet technical requirements by working satisfactorily between frequency range from 20Hz to 620 KHz. In addition to it, in case Spectrum Analyzer is not available in Level meter cum oscillator then it can be substituted by Frequency Response Analyzer meeting with the similar requirement as that of Spectrum analyzer.

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. SUBMISSION OF DOCUMENTS FOR EXPEDITIOUS PAYMENTS

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

I) 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.

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PSTCL, Patiala.

PART- 2

TECHNICAL SPECIFICATION FOR DIGITAL LEVEL METER CUM OSCILLATORS

1. SCOPE:

Digital Level Meter cum Oscillators are used for measurement of PLCC signal. The instrument is capable to receive / generate all frequencies / levels within a reasonable accuracy and resolution. In addition to above to selective level measurement also wide band measurement, return loss measurement, Bridge impedance measurement shall be provided by this instrument. This specification covers the design, manufacture, testing, supply and delivery on F.O.R. destination of these instruments as per technical requirements specified, assistance/guidance during testing and commissioning at site (if required) & rectification/replacement during warranty period.

2. REQUIREMENT:

The estimated quantities are as as per Annexure-A (Schedule of Requirement and Delivery).

3. REFERENCE TO STANDARDS:The equipment shall comply with the British Standard BS EN 55022, BS EN 550082-1, BS EN 60950, EN-61326197, EN-61010-1, CE and International Telecommunication Union Standards ITU-T Recommendation 0.9, ITU-T Recommendation 0.41 or latest standar issued.

4. CONDITIONS FOR TRANSPORTATION, STORAGE AND OPERATION

i) The following tropical climatic conditions encountered in Punjab should not have any adverse effect on the performance of the equipment over short and long period.

a)	Max temperature of Air in shade	+55 °C
b)	Min temperature of Air in shade	-5 °C
c)	Max temperature of air in sun	60 °C
d)	Max variation between day & night temperature	
	winter	20 °C
	summer	25 °C
e)	Max relative humidity	100%
f)	Altitude above mean sea level up to	1000 Mtrs.
g)	Max wind pressure	195 Kg/Sq Mtr
h)	Earthquake incidence sites susceptible to earthquake	
i)	Average no of thunderstorm day/annum	20
j)	Average no of dust storm day/annum	40
k)	No of months during which tropical monsoon Conditions prevail	3
l)	Max wind velocity	150 Km/Hr
m)	Atmospheric pollution	Heavy
n)	Seismic level	Highly susceptible to earthquakes

5) TECHNICAL DETAILS:

The equipment should be suitable for measurements in H.F. range and shall be utilized for selective and wide band measurement including impedance and return loss measuring attachment. The equipment shall be hand held battery operated, multifunction measuring instrument, intended for the test of Carrier Frequency Systems up to 600 channel capacity, Power Line Carrier, Audio Tone and FSK Communications Systems. The equipment should be compatible with level generator. The major requirements of the equipment shall have following:

a. 100Hz to 2400 kHz Level Generator - For the generation of measuring voltage for the test of FDM transmission systems up to 600 channels**.**

b. 100Hz to 2400 kHz Level Meter - For selective and wideband level measurements with auto ranging.

The combined unit of Selective Level Meter and Level oscillator should have following features:

1. Level Meter & Level Oscillator in one instrument.

2. Storage facility for 100 sets of testing.

3. Rechargeable battery for 3 Hrs.

4. Psophometer either in-built or to be provided externally without any extra cost

5. Transmitter

6. Selective Receiver

7. Transmitter & Receiver

8. Wideband Receiver

9. Return Loss Measurement

10. Impedance Measurement

11. Wideband Noise Measurement

12. Spectrum Analyser /Frequency Response Analyser

13. Next/Loss Measurement

14. Digital Level Display with 0.1 dB resolution

15. PC data transfer etc.

16. Inputs / outputs for coaxial / balance measurements

17. Self calibration

18. Weight approx. 5 kg

Each Digital Level Meter Cum Level Oscillator shall consist of following:

a. Level Meter and Level Oscillator

b. 2 Nos. Balanced Measuring Cables

c. 2 Nos. Coaxial Measuring Cables

d. 1 No. USB cable

e. 1 No. Mains adapter

f. Carrying case

g. Operating Manual

j. Calibration Certificate

k. Software CDs

The Complete Technical detail of Level Meter follows:-

Description	**Specification**
Name of Manufacturer	
Place of Manufacturer	
Type, Model No.	
Weather Suitable to measuring level, return losses and Impedance.	
Availability of Psophometer feature internally or external psophometer.	
Availability of Spectrum analyser/ Frequency response Analyser feature.	
Transmitter	
Transmitting Modes	
1 FREQ (Transmitting one single frequency)	
MTTS (Transmitting Multi Tone Test Signal)	
Frequency Range	100 Hz to 2 MHz in 1 Hz steps
Frequency Accuracy	2x10-6 ±1 Hz
Balanced / coaxial Outputs	
10 to 2 MHz	~0, 75, 120/125, 150 Ω
100 Hz to 10 kHz	~0, 600 Ω
Level Range of Balanced Output	
For all impedances	+10 to –40 dBm, dB, mv
Level Range of Coaxial Output	
75, 120/125, 150 Ω	+10 to –40 dBm
600 Ω	+4 to –40 dBm
Level Resolution	0.1 dB
Level Accuracy at 0 dBm Freq.>200Hz	±0.3 dB

Selective receiver	
Receiving Modes	
1 FREQ (Receiving one single frequency)	
MTTS (Receiving Multi Tone Test Signal)	
Frequency Range	100 Hz to 2 MHz
Frequency Accuracy	$2x10^{-6}$ ±1 Hz
Direct Frequency Setting	in 1 Hz steps
Frequency Setting in Carrier ± Tone Format	
Carrier Frequency	4 to 2396 kHz in 1 kHz steps
Tone Frequency	100 Hz to 3,9 kHz in 1 Hz steps
Band width	
200 Hz to 10 kHz.	20 Hz
10 to 2400 kHz	20, 200 Hz, 1.74, 1.95, 3.1 kHz
Balanced/ Coaxial Inputs	
10Hz to 2 MHz	75, 120/125, 150 Ω or high
100 Hz to 10 kHz	600 Ω or high
Measuring Range	
With 20 Hz band width	-120 to +10 dB
Level Resolution	0.1 dB
Level Accuracy at 0 dBm, Freq.>200Hz	±0,3 dB

Wideband Receiver	
Balanced / Coaxial Inputs	
10 to 2400 kHz	75, 120/125, 150 Ω or high
100 Hz to 10 kHz	600 Ω or high
Selectable 3 dB Band Filters	Measuring Ranges
Level Resolution	0.1 dB
Level Accuracy at 0 dBm, Freq.>200Hz	±0.3 dB
Receiver - Transmitter Tracking Mode	
The receiver is controlled by the transmitter	

Synchronic Frequency tuning	
Receiver Frequency =Transmitter Frequency	
Special Tracking Mode Of FDM Channel Test	
Tx Frequency	100 Hz to 3,9 KHz in 1 Hz steps
Carrying Frequency	
Receiver Frequency = Carrier ± Tx Frequency	
Wideband Noise Measurements	
Frequency Range	100 Hz to 2400 kHz
Filters	Psophometer, 3.1, 4, 10 kHz
	120, 300, 600, 1200, 2000 kHz
Evaluation	
For 1 sec to 1 min	Quasi analog

Description	Specification
Frequency response analyzer	
Frequency Range	10 Hz to 2 MHz
Spectrum Analyzer	
Frequency Range	10 Hz to 2 MHz
Line impedances	
20 Hz to 2 MHz	75, 120/125, 150, 600 Ω or High
Return Loss Measurement	
Nominal Impedance (Z)	
20 Hz to 2 MHz	75, 120/125, 150, 600 Ω or High
Display Range	0 To 40 dB
Accuracy at 20 dB	±1 dB
Next/ Loss Measurements	
Frequency	
Frequency Range	100 Hz to 2 MHz
Resolution	Automatically changed with range
Impedances	
20 Hz to 2 MHz	75, 120/125, 150, 600 Ω or High
Impedance Measurements	
Measuring Range	
20 Hz to 2 MHz	75, 120/125, 150, 600 Ω or High

GENERAL SPECIFICATIONS	
Power supply	
Internal rechargeable NIMH battery pack	
Operating time	Approx. 3 hours.
Charging	
From 230V mains	With mains adapter
From 12V car battery	With car adapter
Fast charging time	less than 3 hours
Display	320 x 240 LCD with backlight
Connectors	
For mains or 12V car adapter	2.1/ 5.5 mm coaxial
Balanced connectors	4 mm banana sockets
Coaxial connectors	BNC sockets
Ground connector	4 mm banana socket
USB A	USB 1.1 host port for USB stick
USB B	USB 1.1 device port to connect PC
Ambient temperature ranges	
References	23±5°C
	Rel. humidity 45% to 75%
Normal operation	0 to +40°C
	Rel. humidity 30% to 75% *(<25 g/m^3)
Limits of operation	-5 to +45°C
	Rel. humidity 5% to 95% *(<29g/m^3)
Storage & transport	-40 to + 70°C
	Rel. humidity 95% at +45°C*(<35 g/m^3)
*Without condensation	

6.0 TESTS:

The Digital Level Meter Cum Level Oscillator should meet all test requirements and other standard specifications mentioned above:-

6.1 TYPE TEST:

The offered Digital Level Meter Cum Level Oscillator must be type tested recently. Complete set of test certificates for the following type tests should be submitted along with the tenders. Type test reports submitted along with the tender should be in respect of Digital Level Meter Cum Level Oscillator of a design

1) Electrostatic discharge immunity test as per EN 61000-4-2.

2) Radiated radio frequency immunity test as per EN 61000-4-2.

3) Electrical fast transient immunity test as per EN 61000-4-4.

4) High Energy surge immunity test as per EN 61000-4-5.

5) Conduted RF immunity test as per EN 61000-4-6.

6.2 CALIBRATION & TRACEABILITY :

UNIT shall be duly calibrated (Calibration certificates shall be traceable to national/ international labouratories standards) before supply and the date of calibration shall not be older than two month from the date of supply of Kit.

7. GUARANTEED TECHNICAL PARTICULARS:-

The tenderer should submit complete technical and guaranteed particulars of equipment offered in a similar Performa along with any additional or special information. The particulars given in Annexure-H may not merely be copied.

Any variation from the specification or relevant BS/ITU-T 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.

8. INSTRUCTIONS 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 equipment detailed instructions for transportation, handling, storage, testing commissioning, maintenance, complete circuit diagrams showing component values and clear drawings.

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.

10. CONSIGNEE:

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

11. 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 tenderers agree 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.

12. 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.

PART-3

ANNEXURE-A

SCHEDULE OF REQUIREMENT& DELIVERY

1) REQUIREMENT:

The estimated requirement of Digital Level Meter cum Oscillators is as under:-

DIGITAL LEVEL METER CUM OSCILLATORS = 6 Nos.

2) DELIVERY:

"Ordered quantity shall be supplied within two months of date of issue of PO as under":-

Description	**Within 4 months of date of issue of PO**
DIGITAL LEVEL METER CUM OSCILLATORS	100%

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.

ANNEXURE – B

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 Authorised 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.

ANNEXURE- C

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).	_____

SIGNATURE OF BIDDER
NAME
DESIGNATION
SEAL OF FIRM/COMPANY.

Dated:

ANNEXURE-D

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.

SIGNATURE OF BIDDER
NAME
DESIGNATION
Dated: SEAL OF FIRM/COMPANY.

ANNEXURE-E

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	*Any other information to be mentioned by the bidders*	

ANNEXURE-F

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/ supply of Digital Level Meter Cum Oscillators 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.

ANNEXURE- G

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. Excise duty @.....% of Col. 2 above.
4. Total price including ED i.e.(2+4).
5. CST/VAT @.....% on Col. 5 above.
6. Total Quoted price (5+6).
7. Freight & Insurance
8. FOR Destination price (7+8).

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:

ANNEXURE-H

GUARANTEED TECHNICAL PARTICULARS OF DIGITAL LEVEL METER CUM OSCILLATORS.

Description	**Specification**
Name of Manufacturer	
Place of Manufacturer	
Type, Model No.	
Weather Suitable to measuring level, return losses and Impedance.	
Availability of Psophometer feature internally or external psophometer.	
Availability of Spectrum analyser/ Frequency response Analyser feature.	
Transmitter	
Transmitting Modes	
1 FREQ (Transmitting one single frequency)	
MTTS (Transmitting Multi Tone Test Signal)	
Frequency Range	
Frequency Accuracy	
Balanced & coaxial Outputs	
Level Range of Balanced Output	
For all impedances	
Level Range of Coaxial Output	
75, 135(125), 150 Ω	
600 Ω	
Level Resolution	
Level Accuracy at 0 dBm Freq.>200Hz	
Selective receiver	
Receiving Modes	

1 FREQ (Receiving one single frequency)	
MTTS (Receiving Multi Tone Test Signal)	
Frequency Range	
Frequency Accuracy	
Direct Frequency Setting	
Frequency Setting in Carrier ± Tone Format	
Carrier Frequency	
Tone Frequency	
Band width	
Balanced / Coaxial Inputs	
Measuring Range	
Level Resolution	
Level Accuracy at 0 dBm, Freq.>200Hz	

<u>Wideband Receiver</u>	
Balanced / Coaxial Inputs	
Level Resolution	
Level Accuracy at 0 dBm, Freq.>200Hz	
Receiver - Transmitter Tracking Mode	
The receiver is controlled by the transmitter	
Synchronic Frequency tuning	
Receiver Frequency =Transmitter Frequency	
Special Tracking Mode Of FDM Channel Test	
Tx Frequency	
Carrying Frequency	
Receiver Frequency = Carrier ± Tx Frequency	
Wideband Noise Measurements	
Frequency Range	
Filters	

Description	Specification
Frequency response analyzer	
Frequency Range	
Spectrum Analyzer	
Frequency Range	
Line impedances	
Return Loss Measurement	
Nominal Impedance (Z)	
Display Range	
Accuracy at 20 dB	
Next/ Loss Measurements	
Frequency	
Frequency Range	
Resolution	
Impedances	
Impedance Measurements	
Measuring Range	

GENERAL SPECIFICATIONS

Power supply	
Internal rechargeable NIMH battery pack	
Operating time	
Charging	
From 230V mains	
From 12V car battery	
Fast charging time	
Display	
Connectors	
For mains or 12V car adapter	
Balanced connectors	
Coaxial connectors	
Ground connector	
USB A	
USB B	
Ambient temperature ranges	
References	
Normal operation	
Limits of operation	
Storage & transport	
*Without condensation	

ANNEXURE-I

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

ANNEXURE-J

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.

ANNEXURE -K

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 from 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

ANNEXURE -L

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. _____