



TENDER

FOR

**SUPPLY, INSTALLATION, TESTING/CALIBRATION &
COMMISSIONING
OF
MATERIAL TESTING MACHINES
AND MEASURING EQUIPMENTS
FOR SOIL TESTING**

Tender No. – OK/TESTING/34/01

NSIC- Technical Services Centre
The national Small Industries Corporation Limited
(A Government of India Enterprise)
Okhla Industrial Estate, Phase III
New Delhi-110020

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**NSIC-Technical Services Centre,
Okhla Industrial Estate,
New Delhi**

NOTICE INVITING TENDER

NSIC-Technical Services Centre (NTSC), Okhla, New Delhi invites sealed tender in Two bid system (Technical & Commercial bid in two separate envelopes) from reputed Prime Equipment Manufacturers/ Authorized Distributors/ Dealers for the Supply, Installation, Testing/Calibration, & Commissioning of Material Testing Machines and Measuring equipment's in the office at Okhla Industrial Estate, New Delhi.

The details are summarized below:-

a)	Name of the Project:	Supply, Installation, Testing/ Calibration, & Commissioning at site of Material Testing Machines and Measuring equipment's for soil testing with required specifications as mentioned in Annexure-A
b)	Technical Bid	The details for submission of Technical Bid is placed at Annexure-A
c)	Commercial Bid	The details for submission of Commercial Bid is placed at Annexure-B
d)	Cost of Tender Documents	The tender document can be collected from the office of General Manager of the centre as addressed on first page, w.e.f. 19th October, 2016 to 09th November, 2016 (except Saturday & Sunday) between 10:30 hours to 16:30 hours against payment of Rs. 500/- (Rupees Five Hundred only) (Non refundable) by way of cash/ demand draft, in favour of ' NSIC Ltd.-NTSC A/c ' payable at New Delhi. Alternatively tender form can be downloaded from our website www.nsic.co.in from 19th October, 2016 to 09th November, 2016 . The tender fee of Rs. 500/- in form of demand draft in favour of ' NSIC Ltd.-NTSC A/c ' payable at New Delhi shall be enclosed with Technical Bid of the tender while submitting the tender by Tenderers.
e)	Earnest Money Deposit (EMD) along with Tender	The EMD as prescribed in Annexure-A shall be submitted in the form of D.D. in favour of ' NSIC Ltd.-NTSC A/c ' payable at New Delhi along-with the Technical Bid envelope while submitting the tender. The Tenderer can participate for any one and/ or all Machines and/ or Measuring Equipment's. The evaluation of tender shall be made on individual machine/ measuring equipment basis. The details of EMD payable against individual machine/ measuring equipment is placed at Annexure - "A" .

f)	Last date of submission of tender	The complete and duly filled in tender in a sealed bigger envelope super-scribed as "Tender for the purchase of Material Testing Machines and Measuring Equipments" with tender inquiry no. - OK/TESTING/34/01 & its due date, shall be received by 09th November, 2016 up to 13:00 hours (sharp) at the office of General Manager, NSIC-Technical Services Centre, Okhla Industrial Estate, New Delhi
g)	Date of opening of Technical Bid (Envelope-1)	The first envelope containing Technical Bid will be opened on 09th November, 2016 at 16:00 hours , at the office of General Manager, NSIC-Technical Services Centre, Okhla Industrial Estate, New Delhi.
h)	Date of opening of Commercial Bid (Envelope-2)	The date for opening second envelope containing Commercial Bid will be intimated to the qualified bidders separately.

Note: In case of any further details required, the same can be collected from the office of General Manager, NSIC-Technical Services Centre, Okhla Industrial Estate, New Delhi from **19th October, 2016 to 08th November, 2016** (except Saturday & Sunday) between 10:30 hours to 16:30 hours.

General Manager
NSIC- Technical Services Centre
New Delhi

NSIC-Technical Services Centre
Okhla Industrial Estate, New Delhi

INSTRUCTIONS TO THE TENDERERS

The Tender shall be submitted in accordance with these instructions and any tender not confirming the instructions as under is liable to be rejected. These instructions shall form the part of the tender and contract.

1. The intending Tenderer, in case of Prime Equipment manufacturers shall submit **a self declaration on their letter-head**, along with the Technical Bid, confirming that they are regular in manufacturing & supplying the similar machines, from last Five (5) years.
2. The intending Tenderer, in case of Authorized Distributor / Dealer shall possess **valid authorized Distributorship / Dealership license from Prime Equipment manufacturers**. The tenderer shall enclose the copy of the same in Technical bid while submitting the tender.
3. The Tenderer can participate for any one and/ or all Machines and/ or Measuring Equipment's. It shall be noted that evaluation of individual machine and/ or measuring equipment shall be made for the received tender and not for all the machines and/ or measuring equipment's collectively. The EMD shall be deposited to the amount reflected against individual machine/ measuring equipment as detailed at **Annexure – "A"**

The EMD shall be submitted in the first envelop super-scribed as "Technical Bid", of prescribed amount by way Demand Draft drawn in favour of "NSIC Ltd.-NTSC A/c", only for the Machine(s) and/ or Measuring Equipment(s) quoted by the Tenderer. No cash towards EMD shall be accepted. The offers without EMD will be rejected.

4. The person **signing** the tender form or any other documents forming part of the contract on behalf of the Tenderer shall be deemed to warranty that he has **authority to bind the Tenderer**. If subsequently comes to light that the person so signed had no authority to do so, the General Manager, NSIC - Technical Services Center (NTSC) may without prejudice to any other civil & criminal remedies cancel the tender and hold the Tenderer liable for all costs, charges and damages.
5. The tender must be placed in a properly sealed bigger envelope addressed to General Manager, NSIC-Technical Services Centre, Okhla Industrial Estate, Phase III, New Delhi and the said **bigger envelope shall contain two sealed envelopes containing Technical & Commercial bids**.
6. The bigger envelope must be super-scribed "*Tender for the purchase of Material Testing Machines and/ or Measuring Equipment's*" with tender inquiry number and its due date. The two sealed envelopes inside the bigger envelope must be super-scribed as:

Envelope No-1: The said envelope is for technical bid & shall be super-scribed as "Tender for the Supply, Installation, Testing/Calibration, Commissioning of Material Testing Machines and/ or Measuring Equipment's- Technical Bid"

Envelope No-2: The said envelope is for commercial bid & shall be super scribed as "Tender for the Supply, Installation, Testing/Calibration,

Commissioning of Material Testing Machines and Measuring Equipment's – Commercial Bid".

7. The tender should reach the office of General Manager, NSIC-Technical Services Centre, Okhla Industrial Estate, New Delhi by 09th November, 2016 up to 13:00 hours.
8. The technical bid of tenders will be opened at NTSC-Okhla on 09th November, 2016 at 16:00 Hours. The Tenderer or their authorized representative (One person only) may be present at the time of opening of the tender.
9. Tender inquiry documents, if downloaded from website, Rs. 500/- as cost of tender shall be submitted by way of D.D. drawn in favour of 'NSIC Ltd.-NTSC A/c' along with the tender. D.D. shall be enclosed with the Technical Bid.
10. The material shall be in compliance to the specifications mentioned in Annexure-A of the tender and shall be of the latest technology, best quality and high standards. The specifications of the machine as mentioned in the Annexure- A are the minimum requirement, however higher specifications of machine may be considered subject to cost economics.
11. All the columns of the tender shall be duly, properly and exhaustively filled in. Any cutting/over writing etc. in the tender must be signed by the person who is signing the tender. The rates and units shall not be overwritten. **The financial part in commercial bid shall always be both in figures and words. In case of any discrepancy, amount mentioned in words will be considered as final.**
12. A pre-dispatch inspection by 3rd party/ technical team of NTSC may be carried out at supplier's site. This pre-dispatch inspection will not absolve manufacturer's responsibility towards quality of equipment.
13. No extra payment shall be paid on account of any discrepancy in nomenclature of items. The Tenderer shall seek clarifications if any before submitting the tender.
14. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any Tenderer stipulates any condition of his own, such conditional tender is liable to be rejected.
15. General Manager, NSIC-Technical Services Centre reserves the right to reject any tender/ bid wholly or partly without assigning any reason and to restrict the list of qualified Tenderer for opening of commercial bid to any number deemed suitable by him from out of bids received
16. NSIC-Technical Services Centre (NTSC) have right to verify the particulars furnished by the bidder independently.
17. The Tenderer shall be agreed that the rates submitted shall remain valid for acceptance for a period of 90 days from the date of opening of Technical Bid of tender.
18. Tenderer shall take into account all costs including loading, cartage etc. for giving delivery of material at site i.e. NSIC-Technical Services centre, Okhla Industrial Estate, New Delhi before quoting the rates. In this regard no claim what so ever shall be entertained.

19. The material shall be inspected on receipt at site and, the machines which are required to be installed shall be calibrated at site after complete installation i.e. NSIC Technical Services Centre, Okhla Industrial Estate, New Delhi and supplier shall be responsible for any damage during the transit of machine/ equipment. No extra cost will be paid for onsite calibration of machines.
20. All the communication with respect to the tender shall be addressed to:
- General Manager,
NSIC- Technical Services Centre,
Okhla Industrial Estate,
New Delhi-110020**
21. In the event of any dispute the legal matter shall be subjected to the jurisdiction of Delhi Court only.

We confirm with our acceptance to the instructions (S.No-1 to 21 above) as given above.

TENDERER'S NAME & SIGNATURE WITH SEAL

NSIC-Technical Services Centre

Okhla Industrial Estate, New Delhi

COMMERCIAL AND GENERAL TERMS & CONDITIONS

Nature of Machine/ equipment:

For Supply, Installation, Testing & Commissioning of Material Testing Machines and Measuring Equipment's with specifications mentioned in **Annexure –A**

1. Scope of Supply:

- a) The tenders shall be submitted as per the technical specifications enclosed in **Annexure-A**.
- b) Sealed tenders in the two cover system should be submitted in the prescribed form and should be addressed to the General Manager, NSIC-Technical Services Centre, Okhla Industrial Estate, Phase III, New Delhi. The envelope should be super-scribed as "*Tender for the purchase of Material Testing Machines and Measuring Equipment's*" with inquiry no. and its due date. In the said envelope, the two separate sealed envelopes shall be placed in which one envelope shall have "Technical Bid and second envelope shall have "Commercial Bid". The authorized person of the Tenderer should sign the tender documents.
- c) The Tenderer are free to inspect the installation location in the premises of NSIC-Technical Services Centre, Okhla Industrial Estate, New Delhi before submitting the quotes.

2. Submission of tender:

- a) The tender received within the stipulated date and time will be opened at the office of General Manager, NSIC-Technical Services Centre, Okhla Industrial Estate, New Delhi, in the presence of available tenders, on the date and time mentioned in the Notice Inviting Tender.
- b) Tenders received in open covers/ letters/ fax/ telegram/ email will not be considered.
- c) The tenders received after the stipulated date and time or tender received with conditions will not be accepted. Tenders not submitted in the prescribed form will be rejected. Tenders which propose any alternations in the conditions specified will be rejected.

3. Opening of Commercial Bid:

The Commercial Bid of only technically qualified tenderers will be opened in presence of tenderer's authorized representative on the stipulated due date. The date & time for opening of Commercial Bid shall be intimated to the selected tenderers after opening & evaluation of Technical Bid.

4. Validity of tender:

- a) The tender shall be valid for a period of 90 days from the date of opening of the Technical Bid of tender. If any Tenderer withdraws his tender before the said period or makes any modifications in the terms and the conditions of the tender which are not acceptable to the NTSC, then the NTSC shall, without prejudice to any other rights or remedy, be at liberty to forfeit the EMD. The rates quoted in the tenders shall be treated as firm during this period of contract.

- b) Should the Tenderer for any reason whatever, withdraws the tender after it is accepted or become unable or fails to execute the orders within stipulated delivery period as declared in Technical Bid Annexure A para 8, NTSC shall be at liberty to cancel the order forthwith and the EMD of the tender in such a case will be forfeited by the NTSC.
- c) No representation for the enhancement of the prices of the accepted tender or alteration of the terms and conditions will be entertained till supplies are completed.

5. Offers ready stock/ Subject to prior sale:

- a) Offers from ready stock are preferred. In case the offers are subject to prior orders, the Tenderer shall indicate the period within which the ordered quantity will be supplied. The Tenderer shall note that in case tenderer fails to supply within the period of delivery indicated by the tenderer in **Annexure A**, penalty @ 5% of value of the order per week of delay subject to maximum 3 weeks. It means, the tenderer shall have the liability of delayed supply to the maximum of 3 weeks after expiry of supply condition. After that the supply order shall be cancelled and EMD will be forfeited and tenderer will be debarred from participation in any future tender of NSIC.
- b) The successful Tenderer shall, within a week from the date of receipt of communication of acceptance of quotes from NTSC shall intimate his acceptance of the order. The successful Tenderer shall complete supplies strictly as per the accepted delivery period.

6. Warranty of machine/ equipment supplied :

- a) The machine/equipment offered shall conform to the specifications as given in tender/order and shall have the warranty, shall be specify in Technical Bid, against defective design, defective quality material supplied, manufacturing defects etc., applicable from the date of Installation of Material Testing Machines and Measuring Equipment's. The warranty of machine/ equipment would certainly be taken into consideration.
- b) The warranty of machine/ equipment would be minimum 02 (Two) years.
- c) Any part or parts fail or proved defective within the warranty period specified above, owing to defect in design, material or workmanship, the company will have to replace them at the place of installation free of all the charges.
- d) During the warranty period, expert(s) shall be deputed at site by the Company, whenever found essential to rectify and fixing the defects of machines at NSIC Technical Services Centre, Okhla Industrial Estate, New Delhi-110020.
- e) The cost of deputation of expert(s) and any other associated expenditure shall be borne by the Company.

7. Packing :

- a) The supplier shall provide packing of the machine/ equipment, as is required to prevent their damages or deterioration during the transit to their final destination to the address of delivery i.e. NSIC-Technical Services Centre (NTSC), Okhla Industrial Estate, New Delhi. The packing shall be sufficient to withstand, without limitation, rough handling during transit.
- b) The machine & equipment shall be securely boxed, crated and protected from mechanical damage, moisture etc. suitable for both storage and transit according to the nature of the material and mode of transport.

- c) In case the consignment received with damaged packaging, the delivery shall not be taken.
- d) The supplier shall be responsible for any loss/ damage to material during transportation to our office from your company because of mode of transportation or defective packaging and/ or wrong making of goods.
- e) The package delivered under our order shall at the expense of the supplier be distinctly marked with description and quantity or contents with the consignee name, address and supply-order with the distinctive number and mark, which is also to be shown for the purpose of identification.

8. Price:

- a) The price shall be firm and shall include all applicable taxes. Any variation in the taxes duties, levies etc. till the complete delivery of machines to the address of delivery i.e. NSIC-Technical Services Centre (NTSC), Okhla Industrial Estate, New Delhi shall be to the Tenderer account.
- b) The Tenderers shall submit the copy of PAN Number, VAT/CST/TIN Number registration details along with the Technical Bid of the tender document.

9. Delivery:

- a) The successful tenderer shall complete supplies strictly within 60 days. Material ordered by the NTSC shall be delivered FOR destination securely packed as may be necessary.
- b) The Machine & Equipment shall have to be delivered at and installed at NSIC-Technical Services Centre, Okhla Industrial Estate, Phase III, New Delhi and to be operationalized to the satisfaction of the Chief Manager (Material Testing Laboratory) of NTSC.
- c) The machine(s) and/or measuring equipment(s) shall be supplied with duly Calibrated. Care should be taken for delivered machine(s), which are required to installation at site, the **Calibration of the assembled/ adjusted machine(s) and/ or equipment(s) shall be carried out at our site** after satisfactory installation and commissioning of machine and/or equipment. The calibration of machine(s) and/ or measuring equipment(s) shall be as per **NABL criteria duly bearing the NABL logo** on each calibration certificate(s).
- d) Installation & Commissioning of Material Testing Machine and/ or Measuring Equipment shall have to be carried out free of charge at NSIC-Technical Services Centre, Okhla Industrial Estate, New Delhi.
- e) The comprehensive training which includes Operations, Maintenance, Trouble shooting & all other areas which are necessary for smooth functioning of machine, shall be provided to at least two persons at site i.e. NSIC Technical Services Centre by Tenderer.
- f) Part delivery shall not be permitted.
- g) The Manual related to Operation, Maintenance, Safety measures including Do's and Don'ts instructions shall be submitted to our office along with the supply of Machine/ Equipment.

10. Payment:

- a) The 70% payment of total bill will be made by the Corporation by crossed account payee cheque for which the tenderer shall send bills in duplicate

(original + copy) after supply of machine, giving the reference number of the purchase order along with copies of delivery note.

- b) The 20% payment of total will be released to supplier after one month of successful installation, commissioning & testing and/ or calibration of machines and/ or equipment's at our site; and on submission of indemnity bond for the guaranty or warranty (or both) period. The tenderer shall submit the documents which shall clearly indicate that the Proper Installation, Commissioning & successful Testing and/ or Calibration of Machine(s) & Equipment(s) are done and the said document shall be duly acknowledged by the Chief Manager (Material Testing Laboratory) of NTSC.
- c) The remaining 10% payment will be retained as performance security deposit, will be released without interest on completion of warranty period of machine, if warranty would be taken care satisfactorily during the warranty period. The 10% payment will be forfeited, if the machine would not be serviced/ repaired/ replaced satisfactory during the warranty period.

11. Earnest Money Deposit :

- a) An EMD shall be paid along with the tender (in Technical Bid) either by way of DD drawn in favour of '**NSIC Ltd.-NTSC A/c**' payable at Delhi. Tender is liable to be rejected in case EMD at prescribed rate is not furnished along with the tender. NSIC Technical Services Centre shall not be liable for payment of any interest on EMD.
- b) Any request by the bidders to consider their EMD furnished by them to NTSC for any other contract/ tender cannot be considered as EMD for this tender.
- c) The EMD will be returned to the unsuccessful bidders soon after the orders are placed on the successful bidder. In case of successful bidder, the EMD will be returned one month of successful commissioning of the machines and/ or equipment's.
- d) The EMD will be forfeited in following cases:
 - I. If the bidder fails to accept the order based on his offer (bid) and within the prescribed time.
 - II. If the bidder fails to supply the Material Testing Machines and Measuring Equipment's with specifications in compliance to as mentioned in Annexure -A
 - III. If the bidder delays supplies beyond a reasonable time resulting in disruption of NTSC works
- e) In case tender documents downloaded from website, Tender Fee of Rs. 500/- shall be submitted by way of cash / D.D. drawn in favour of '**NSIC-Ltd.-NTSC A/c**' along with the Technical Bid of the tender documents.
- f) Exemption from payment of EMD and tender Fee will be applicable for the tenderer having valid registration under Single Point Registration Scheme of NSIC and all micro and small enterprises registered under Director of Industries from DIC.

12. Service Facility:

Tenderer shall have the facility to provide after sales service within a 7 days on written request. Corporation will consider the agency having the after sales-service office at Delhi NCR.

13. Claims:

- a) If the material supplied are found to be off size and shape different than those in the accepted offer and are of specifications lower than those stipulated in the accepted offer, NTSC shall have right to totally reject the machine/ equipment and/or to prefer a claim for compensation for the part of machine/ equipment, which are rejected. The supplier shall reimburse to NTSC, the actual expenditure incurred, on such machine/ equipment, within 15 (fifteen) days of its demand.
- b) The supplier shall be responsible for arranging the rejected machine/ equipment to be removed at his cost from NTSC premises.
- c) The supplier shall also compensate for losses, if any, sustained by NTSC due to defective packing and/or wrong marking of the machine/ equipment.

14. Arbitration:

All disputes or differences whatever arising between the supplier and NTSC, Okhla shall be settled by the sole arbitrator appointed by NTSC, Okhla. No objection shall be raised on the ground that the arbitrator so appointed is an employee of NSIC or is one of the parties to the tender himself or that the persons so appointed had to deal with the matter to which the tender relates in his official capacity.

We confirm with our acceptance to the Commercial & General Terms & Conditions (S.No-1 to 14) as given above.

Signature of the Tenderer with seal

NSIC-Technical Services Centre

Okhla Industrial Estate, New Delhi

(Undertaking from Tenderer)

To,
The General Manager
NSIC- Technical Services Centre,
Okhla Industrial Estate,
New Delhi-110020

Sir,

Nature of Machine/ equipment:	For Supply, Installation, Testing & Commissioning of Material Testing Machines and/ or Measuring Equipment's
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Dear Sir,

HAVING EXAMINED AND PERUSED THE FOLLOWING DOCUMENTS

1. Notice Inviting Tender
2. Instruction To The Tenderer
3. Commercial & General Terms & Conditions
4. Technical Specifications of item (Annexure-A) for which tender issued
5. Annexure – A (Technical Bid)
6. Annexure- B (Commercial Bid)

I/Wedo hereby submit tender in prescribed formats for Supply, Installation, Commissioning & Testing and/ or Calibration of Material Testing Machine(s) to NSIC- Technical Services Centre (NTSC), New Delhi, completed in all respects in accordance with the conditions applicable.

If this tender is accepted, I/We agree to abide by and fulfill all the terms and conditions in the tender documents

I/We hereby distinctly and expressly declare and acknowledge that before the submission of this tender, I/We have carefully followed the instructions and I/We have understood the existing system of supply in the NTSC, including the scope and nature of duties expected from the Tenderer.

I/We distinctly agree that I/We would hereafter make no claim or demand upon the NTSC based upon or arising out of any alleged misunderstanding or misconceptions or mistake on my/our part of the said stipulations, restrictions and conditions.

I/ We declare that our unit was never default for supplying the machine/ equipment to govt./ semi govt./ PSU in terms of quality and financial agreed supply conditions.

Any notice required to be served on me/us shall be sufficiently served on me/us by post (registered or ordinary) or courier or left at my/our address furnished herein.

I/We fully understand the terms and conditions in the tender documents.

Dated this.....day of.....2016

Name of the Tenderer/s:

Seal:

Authorized Signatory:
With complete address, phone/fax numbers

ANNEXURE-A

NSIC-Technical Services Centre
Okhla Industrial Estate, New Delhi

FORMAT & REQUIREMENTS FOR SUBMITTING TECHNICAL BID

1. Tender Ref. No:
2. Name of Tenderer:
3. Complete office address of Tenderer.....
4. Contact details of authorized person of tenderer who have signed the tender.
 - a. Name.....
 - b. Designation.....
 - c. Phone (office).....
 - d. Phone (Mobile).....
 - e. E mail.....
5. Tender fee (*if tender document uploaded from website*)
6. PAN Number of supplier (copy to be enclosed).....
7. VAT/ CST/ TIN registration number of supplier (copy to be enclosed).....
8. Delivery period after receipt of order from NTSC____ Days (number of days)
9. Documents - Details to be enclosed with the Technical bid are as under:
 - a. The Tenderer shall give **a self declaration on their letter-head**, confirming that they are regular in manufacturing & supplying the similar machines, accessories and tools from last 05 years, as mentioned in the tender no. OK/TESTING/34/01 and has capacity & capability to execute the tender independently, in compliance to the terms & conditions contained in Tender documents.

OR

In case the indenting tenderer is authorized Distributor / Dealer, they shall have to possess valid authorized Distributorship / Dealership license from manufacturers for supplying the similar machines, accessories and tools from last 05 years. **The copy of the same shall be enclosed along with the technical bid of tender.**

- b. Details of buyers to whom the similar supplies completed during the last five years i.e. Supply, Installation, Testing & Commissioning of Material Testing Machines and Measuring Equipment's. The detail shall be submitted as per the format placed under:

S. No.	Year	Name of machine and its details	Scope of work	Name/ Address / Telephone number of officer to whom reference, if required, may be made	Value (Rs.)

- c. Complete Address with Telephone numbers and email address of after-sales service centers and Support Centers as far as possible near to Okhla area in New Delhi shall be provided.
- d. The Tenderer shall clearly confirm that the tender shall remain valid for acceptance for 90 days from the date of opening the Technical Bid of the tender i.e. Valid for 90 days from the day i.e. 09th November, 2016.
- e. The Tenderers shall attach the duly signed on each page of these tender documents as detailed under and place along with the above Technical Bid;
1. Instructions to Tenderers,
 2. Commercial & General terms and conditions,
 3. Undertaking from tenderer,
 4. Declaration by Tenderers,
 5. Technical detail Specifications of the Machine(s) and/ or Equipment(s) to be supplied, supported with the technical documents of same.
- f. The Tenderers shall submit all supporting information with respect to the technical data, drawings or booklets of product. Any product brief, test certificates available may be enclosed.
- g. No price of any Machine/ Equipment/ Spares/ Accessories shall be given in Technical Bid.
- h. The Tenderers shall furnish complete Technical details of machine /equipment /material along with applicable mandatory accessories and tools in detail (use separate sheet to elaborate the details of technical specifications such as Measuring Range/ Size, Least Count/ Resolution, Accuracy, Materials used, Accessories, Tools, Spares etc.) which they are intending to supply through this tender.

i. The tenderer shall fill format as placed under for the intended supply the machines:

S. No.	Machine/ Equipment	Specifications	Quantity required	EMD of individual (Rs.)	Comply to Specification and ready to supply required Quantity (write YES/ NO only)	Machine name and model number (attach the technical literature of machine to be supplied)	Warranty Offered (in year)	EMD of individual (Rs.) <i>Fill for the machine to be supplied</i>
1	Universal Tri-axial tester with digital Reader, Volume Change and Pore Pressure Apparatus, Data Acquisition and Software for data processing with all related accessories & spares	<ul style="list-style-type: none"> • The equipment shall be in compliance with IS-2720 (Part-XII and Part XI) • Load Frame: - The equipment shall have a load frame which is Motorized, between 12-30 speeds (Rate of strain (speed) should be clearly specified while quoting), should be suitable for Triaxial and CBR both, two pillar type with sliding top load bracket allowing locking at any desired height, the loading part should be detachable from the main unit, lamp/indicator to indicate the direction of motion, vertical clear distance should be between 800-900 mm, Platen should not exceed \varnothing 200 mm, platen travel should not exceed 100 mm and the pillar should have clear distance of 300 mm minimum to occupy different make triaxial cells if required, operation at 220 volts, 50Hz, single phase supply • Specimen size: - 38mm, 50mm, 75mm & 100mm diameter. The equipment shall be able to test these specimen sizes • Triaxial Cell: - The equipment shall have a triaxial cell which is capable of testing specimens of 38, 50, 75 and 100mm diameter and should be supplied with all standard accessories- plain discs (\varnothing 38-100mm)-1 each, 	1 No	5000/-				

		<p>Perspex loading pads (ø 38-100mm)-1 each, porous stones (ø 38-100mm)-1 each, Pedestal (ø 38-100mm preferably brass made)-1 each, sheath stretcher (ø 38-100mm)-1 each, rubber sheath (ø 38-100mm)-12 each, sand former (ø 38-100mm)-1 each, top loading pads-plain (38-100mm), O-rings (ø 38-100mm)-8 each, drainage tubes both short and long (38-100mm)-4 each</p> <ul style="list-style-type: none"> • Pressure control System: -The equipment shall have a Constant Pressure System-Oil water Type-with oil pump to maintain the desired pressure, 8 to 10 kg/ cm² pressure range with accuracy between ±1% to ±2% and preferable resolution of at least 0.1 kg/ cm², Should allow increasing or decreasing the pressure within the specified range, Operation on 220V, 50 Hz, Single Phase AC Supply • System for automatic measurement of volume change: - The equipment should have a volume chamber-100ml capacity and bottom chamber-100ml capacity, with change over valve to allow the internal pistons to move in opposite direction in case the volume exceeds 100cc. Accuracy between 1-2 ml. should be supplied with push fittings (4 mm). should be usable with LVDT. • Digital Indicator/ Display: - Alpha numeric display for all simultaneous channel, operation on 220V, 50Hz, Single Phase • Load cell Capacity: - 10kN (with resolution : 0.01kN) • Displacement Transducer: -LVDT 0 to 20mm range • Pore Pressure Transducer: - 20 Kg/cm² 						
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		<p>capacity, (maximum overload capacity up to 150% (of rated)- should be specified while quoting), resolution – 0.01 Kg/cm²</p> <p>Data Acquiring/ Acquisition System along with software: - Should be windows compatible. Software should also be supplied along with the whole setup for analyzing the standard three types of Triaxial tests, shall have a robust standalone Data Logger with 16 bit resolution and inbuilt LCD display, keypad for Data logger configuration, inbuilt real time clock, maximum of 4 analog channels, accuracy of 0.1%, internal storage and provision for RS 232 communication(all compliance to be clearly mentioned)</p>						
2	<p>Sample Extractor: Hand Operated with all related accessories & spares</p>	<ul style="list-style-type: none"> • The sample extractor shall be hand operated type for extracting soil samples of ø 38 mm from sampling tube directly at field. • The frame of the equipment shall be Screw Type with a wire sample trimmer • The equipment shall have Jarring Link for driving sampling tube. • Split Moulds should be easily fitted to the equipment. • The equipment shall be supplied with required sampling tubes. <p>The equipment shall have Adapter with locking screw for fitting sampling tubes to Jarring Link</p>	1 No	2000/-				
3	<p>Moisture Meter with all related accessories & spares</p>	<ul style="list-style-type: none"> • The equipment shall be in compliance with IS 2720(Part II) and IS 12175. • The equipment shall be able to measure moisture content of soil, sand and other fine grained material. 	1 No	1000/-				

		<ul style="list-style-type: none"> The equipment shall follow test technique based on water reacting with calcium carbide to form acetylene gas where the quantity of gas formed is directly proportional to the water present. <p>The equipment shall be supplied with Calcium Carbide Reagent, Moisture Gauge, 0-25% with least count 0.5%, digital balance capacity 50 grams, steel balls, scoop, cleaning brush and aluminum dish</p>						
4	Device for Index Properties of Soil (a) Liquid Limit Device	<ul style="list-style-type: none"> The equipment shall comply with IS:2720 Part-V & IS:9259 The equipment shall have Casagrande Grooving tool, Motorized, with hard rubber base, with gauge block (it should be of Type A as per IS: 9259), suitable for operation on 220 V, 50 Hz, single phase AC Supply. 	1 No	3000/-				
	(b) Plastic Limit Device	<ul style="list-style-type: none"> The equipment shall comply with IS:2720 Part-V. <p>The apparatus should be consisting of all standard accessories such as-Rod (brass), Porcelain Dish, Glass Plate, Moisture Tin and Spatula</p>						
	(c) Shrinkage Limit Device	<ul style="list-style-type: none"> The equipment should comply with IS:2720 (Part-VI) & IS 10077 <p>The equipment should be supplied with Mercury: 2kg, Straight Edge, Evaporating dish, Glass Cylinder-graduated-with 0.5 ml x 25 ml and other standard items (should be included in the whole setup and mentioned clearly in the quoted price)</p>						

5	Specific gravity Pycnometer with all related accessories & spares	<ul style="list-style-type: none"> The Pycnometer shall be in compliance with IS 2386 (part 3) <p>The equipment shall include Glass Jar of 1 Kg with brass cone, locking ring and rubber seal</p>	1 No	500/-				
6	Particle Size Analyser of Soil (a) Sieve Set with all related accessories & spares	<ul style="list-style-type: none"> Comply to IS 460 Brass Frame size of 200 mm (i) Aperture Size: 10, 6.5, 4.75, 2.36, 2, 1.18 mm, 600 µm, 425 µm, 300 µm, 150 µm, 75 µm, 63 µm, 45 µm <p>Pan Cover and Lid</p>	1 No	2000/-				
	(b) Grain Size Distribution Apparatus (Pipette Method) with all related accessories & spares	<ul style="list-style-type: none"> Comply to IS 2720-Part 4 Apparatus with necessary Pipette Stand, moving carriage assembly fitted with scale and holder for holding the pipette in position, Glass Pipette of 10 ml. capacity fitted with a 3 way stop cock Glass Pipette of 25 ml. capacity fitted with a 3 way stop cock Sedimentation tube of 500 ml volume Sedimentation tube of 1000 ml volume Hydrometer: 0.995 to 1.03 (g/ml) <p>Hydrometer Glass Jar of 1000 ml with rubber bung</p>						
7	Vibratory Sieve Shaker with all related accessories & spares	<ul style="list-style-type: none"> Capable to carry 8 sieves at a time <p>Machine with adaptor to accommodate the 200 mm diameter framed, their applicable Accessories, Tools, Spares</p>	1 No	2000/-				
8	Direct Shear Apparatus with all related accessories & spares	<ul style="list-style-type: none"> The equipment shall be in compliance with IS: 2720 (Part XIII), IS: 11229 The equipment shall have 12 different rate of strains ranging between 0.0002 mm/min to 1.25mm/min (rate of strains should be clearly 	1 No	3000/-				

		<p>specified while quoting) and other parts should be as per IS standard- with surcharge weights (weight details as per IS and should be specified while quoting), shear box housing and assembly, cutter for specimen.</p> <ul style="list-style-type: none"> • Size of specimen to be tested - 6cm x 6cm x 2.5cm, the equipment shall be able to test specimen of specified size. • Digital Display/Indicator: The equipment shall have 1 No. Alpha numeric display, for all simultaneous channels • Load Cell - The equipment shall have a load cell which is Universal Type with 2kN capacity with up to 110% max overload capacity (it should be mentioned while quoting)-1 No. • Sensor for Displacement: LVDT (\pm 20mm)- 2 Nos. <p>The apparatus should be pre-calibrated before dispatch and should allow direct reading in engineering units</p>						
9	Compactor with all related accessories & spares	<ul style="list-style-type: none"> • The equipment shall be in compliance with IS 2720(Part 7 and 8) • The equipment shall be electrically operated mechanical compaction with two rammers adjustable to 2.6 Kg and 4.9 Kg. • The drop of rammer should be adjustable to 310mm and 450 mm. <p>MS Mould as per IS to be supplied along with the equipment</p>	1 No	1000/-				

10	California Bearing Ratio test apparatus (Motorised) with mould and all accessories & spares	<ul style="list-style-type: none"> • Comply to IS 2720 Part 16 and IS 9669 • Load frame capacity: 5000 kg (50 kN) • Motor having three speed of 1.5, 1.25 & 2.5 mm/min • suitable for a power supply of 220v, 50 Hz, single phase 	1 No	5000/-				
11	Laboratory Permeability Apparatus with all related accessories & spares	<ul style="list-style-type: none"> • The equipment shall be in accordance with IS : 2720 and IS : 11209 • The equipment should be for testing soil with coefficient of permeability in the range of 0.001 cm/sec to 0.0000001 cm/sec and maximum particle size of 10 mm. • The equipment should be supplied with a stand of three glass tubes with \varnothing 6mm, \varnothing 10mm and \varnothing 20 mm. • The equipment should shall be supplied with Metallic Mould \varnothing 100mm X 127.3 mm height. • The equipment shall be supplied with an Extension Collar \varnothing 100 mm X 60 mm height. • The equipment shall have a drainage base plate with recess and an Outlet valve. • The equipment shall have Drainage Cap with recess and fitted with Inlet Valve and Air Release Valve. • The equipment shall be supplied with Rubber Connection Tube 3m long with Pinch Cock. <p>The equipment shall be supplied with 2 Nos Porous Stone for Drainage Base Plate and Drainage Cap</p>	1 No	1000/-				
12	Field CBR Test Apparatus with all related	<ul style="list-style-type: none"> • The equipment shall be in compliance with IS 2720 (Part 31). 	1 No	2000/-				

	<p>accessories & spares</p>	<ul style="list-style-type: none"> • The equipment shall be mounted on a rolled steel joist cantilevered from the back of a mobile frame to determine bearing ratio of soils in situ. • The equipment shall have a loading jack with U-bracket, capacity 50 KN, consisting of hand operated two speed screw jack fitted with U-bracket. • The equipment shall have a swivel head for the loading jack. • The equipment shall have a penetration piston \varnothing 50 mm threaded at the upper end to connect various lengths of extension sleeves through a connector. • The equipment shall be supplied with Extension set consisting of 1 length of 5 cm, 2 lengths of 10 cm, 1 length of 30 cm, 1 length of 50 cm and 1 length of 100 cm used as spacers between penetration piston and proving ring. • The equipment shall have a connector set consisting of eight connectors for coupling the penetration piston and proving ring assembly either directly or through extension pieces. • The equipment shall have a datum bar assembly consisting of two stands and 1 m long bar. <p>The equipment shall be supplied with Annular weight 5 Kg, \varnothing 250 mm, Slotted Metal weight 5 Kg, \varnothing 215 mm to 250 mm 2 nos and slotted metal weight 10 Kg, \varnothing 215 mm to 50 mm 2 nos.</p>						
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<p>13</p>	<p>Plate Bearing Test Apparatus with all related accessories & spares</p>	<ul style="list-style-type: none"> • The equipment shall be in compliance with IS:1888. • The equipment shall be capable to find the load deformation characteristics for determining the ultimate bearing capacity of foundations. • The equipment shall have a Hand Operated Hydraulic Jack,Capacity 500 kN (50,000 kgf) 1 No., Hydraulic Hand Operated Pump with \varnothing 200 mm Load Gauge capacity 500 kN (50,000 kgf) 1 No. • The equipment shall be supplied with High Pressure Flexible Metallic Pipe 5 m long. 1 No., Ball and Socket Arrangement consisting of two steel plates, with one steel ball in-between the plates. 1 No., Extension Rod long, \varnothing 12 mm x 25 cm for taking Dial Gauge readings. 16 Nos. • The equipment shall have a Magnetic base with female thread on top, for holding extension rod. 4 Nos. along with Top End Plate \varnothing 50 mm with male thread, for fitting on to the Extension Rods and positioning the Dial Gauge Plunger. 4 Nos. • The equipment shall have a Column \varnothing 15 cm x 25 cm long, with flanges, complete with four bolts and nuts-2 Nos and Column \varnothing 15 cm x 50 cm long, with flanges, complete with four bolts and nuts. 1 No. with Datum Bar • The equipment shall be supplied with Anchor Spikes 10 Nos, Quick Release Clamp for positioning dial gauge bracket, Dial Gauge 25 mm travel, 0.01 mm least count-4 Nos. 	<p>No.1</p>	<p>5000/-</p>				
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		<ul style="list-style-type: none"> The equipment shall be supplied with Grooved MS Plate of following sizes: (a) 30cmX30cm square, 25 mm thick (b) 45cmX45cm square, 25 mm thick (c) 60cmX60cm square, 25 mm thick (d) 75cmX75cm square, 25 mm thick And Plain MS plate of following sizes: (e) 30cmX30cm square, 25 mm thick (f) 45cmX45cm square, 25 mm thick (g) 60cmX60cm square, 25 mm thick (h) 75cmX75cm square, 25 mm thick The equipment shall be supplied with Load truss of Capacity 500 KN. 						
	From 1 to 13	Total EMD (Rs.)						
		EMD of Rs. _____ by DD No. _____ Dated _____ drawn on scheduled/ nationalized bank _____ in favour of 'NSIC Ltd.-NTSC A/c' payable at New Delhi.						

Note:

- (1) All above machines should be provided with safety features/ curtains etc. wherever applicable.**
- (2) All consumables, electrical, electronic units should be certifies that the product conforms to national/ international standard(s).**
- (3) The Tenderer can participate for any one and/ or all Machines and/ or Measuring Equipment's. It shall be noted that evaluation of individual machine and/ or measuring equipment shall be made for the received tender and not for all the machines and/ or measuring equipment's collectively.**

Signature of the Tenderer with stamp

ANNEXURE-B**NSIC-Technical Services Centre**
Okhla Industrial Estate, New Delhi**FORMAT & REQUIREMENTS FOR SUBMITTING COMMERCIAL BID**

1. Tender Ref. No.:
2. Name of the Tenderer:
3. The offer with rates for the schedule of requirements of items, as elaborated under, to be submitted. Adhering to the format given below is a Pre-requisite for considering your quotations:

Item No.	Description of machine/equipment as per Annexure-A	Qty	Unit Price (Rs.)	Taxes/duties/Octrai etc. (Rs.)	Total Unit cost inclusion of all Taxes/Duties (Rs.)	Total cost for the require quantity (Rs.)	Total Cost in Words
A	B	C	D	$E = \sum E1..En$	$F = D + E$	$G = C \times F$	H
Total:							

4. The Total Cost quoted above should be inclusive of basic price, statutory levies and taxes, duties, packing, forwarding, transportations & insurance etc. up to the site i.e. NSIC-Technical Services Centre, Okhla, New Delhi basis. **The NTSC will not issue 'C' and 'D' forms.**
5. Rates should only be quoted in the accounting units (A/U) mentioned in above format. Rates must be quoted clearly on free delivery basis at NSIC-Technical Services Centre, Okhla, New Delhi
6. Any exemption of duties/taxes required should be indicated. Also the special prices or discounts applicable to Government Undertaking or Educational Institute may be specified.

We hereby confirm that we have clearly understood the terms & conditions as specified in the tender documents and agreed for the payment terms as specified in Para 10 of "Commercial and General Terms & Conditions" of this tender.

Further confirm that we will abide all the terms & conditions as specified in the tender and agreed for the penalty to be imposed, in case of delayed supplies from our end as specified in Para 5 of "Commercial and General Terms & Conditions" of this tender.

Signature of the Tenderer with stamp

DOCUMENT CHECK LIST

(To be submitted with Technical Bid)

1. Instructions to Tenderers
2. Commercial & General terms and conditions
3. Undertaking from tenderer
4. Declaration by Tenderers/ Valid authorized distribution ship/ dealership license
5. Details of buyers during last five years
6. Complete address with telephone number and email address of after sales service centre and support centre on letter head
7. Technical Literature of machine(s) to be supplied
8. EMD or NSIC registration certificate, MSE Registration Certificate.
9. Tender fee or NSIC registration certificate, MSE registration certificate.
10. TIN registration self-attested copy
11. Self-attested copy of PAN

******END OF TENDER DOCUMENT******