

TENDER

FOR

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

Tender No. - OK/TESTING/34

NSIC- Technical Services Centre

The national Small Industries Corporation Limited

(A Government of India Enterprise)
Okhla Industrial Estate, Phase III
New Delhi-110020

Tel No. 011-26826801, 26826847, 26382007 Fax: - 011-26826783

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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 with required specifications as mentioned in Annexure-A
b)	Technical Bid	The details for submission of Technical Bid is placed at Annexure-B
c)	Commercial Bid	The details for submission of Commercial Bid is placed at Annexure-C
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. 20th May, 2016 to 17th June, 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 LtdNTSC A/c' payable at New Delhi. Alternatively tender form can be downloaded from our website www.nsic.co.in from 20th May, 2016 to 17th June, 2016. The tender fee of Rs. 500/- in form of demand draft in favour of 'NSIC LtdNTSC 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 Cheque/D.D. in favour of 'NSIC LtdNTSC A/c' payable at New Delhi alongwith 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 & its due date, shall be received by 17th June , 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 17th June, 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 20th May, 2016 to 16th June, 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 Itd.-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 superscriBED 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 17th June, 2016 up to 13:00 hours.
- 8. The tenders will be opened at NTSC-Okhla on 17th June, 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 goods. 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 Goods/ Equipment's:

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/ Price 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 B 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 in the said tender, penalty at the rate of 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 goods supplied :

- a) The equipments offered shall confirm to the specifications as given in tender/order and shall have the warranty, shall be specify in Commercial 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 goods would certainly be taken into consideration.
- b) The warranty of goods would be at least 2 years.

7. Packing:

- a) The supplier shall provide packing of the goods, 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.

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 the accepted delivery period. Material ordered by the NTSC shall be delivered FOR destination securely packed as may be necessary.
- b) The Machine & Equipments 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 Machines and/ or Measuring Equipment's shall have to be carried out free of charge at NSIC-Technical Services Centre, Okhla Industrial Estate, New Delhi. 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.

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 Cheque/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 goods and/or to prefer a claim for compensation for the part of goods, which are rejected. The supplier shall reimburse to NTSC, the actual expenditure incurred, on such goods, within 15 (fifteen) days of its demand.
- b) The supplier shall be responsible for arranging the rejected goods 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 goods.

We confirm with our acceptance to the Commercial & General Terms & Conditions (S.No-1 to 13) 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 Goods/ Equipments:	For Supply, Installation, Testing &
	Commissioning of Material Testing Machines and
	and Measuring Equipment's

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 B (Technical Bid)
- 6. Annexure- C (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 goods to govt./ semi govt./ PSU in terms of quality and financial agreed supply conditions.

TENDER NO. OK/TESTING/34

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	I the terms and conditions i	in the tender documents.
Dated this	day of	2016
		Name of the Tenderer/s:
		Seal:
	With complete	Authorized Signatory: address, phone/fax numbers

ANNEXURE-A

Technical Specifications for the Supply, Installation, Testing and/ or Calibration, Commissioning of Material Testing Machines and Measuring Equipment's

S.	Machine/	Specification	Accuracy	Qty	EMD of
No.	Equipment			required	individual
					(Rs.)
1		Capacity: 500 kN	Class 1 /	1 No	15000/-
		•Least count: 0.02 kN	within±1% of the		
	•	•Comply to IS:14858-	-		
	with Automatic		compliance to the		
	-	Digital (with Peak Hold	IS: 1828 (Part 1)		
	facility,	Facility)	<u>Calibration</u> of		
	Accessories, Tools		Machine after		
	and Spares along	capable of applying	<u>satisfactorily</u>		
	with CVT (constant		<u>installation</u>		
	voltage	specified rate,	(i) Manufacturer		
	transformer)	uniformly, without	shall carry out		
		shock, using automatic	the calibration		
		control	of machine as		
		Rate of loading for	per clause 10 of		
		hydraulically operated	is 14858-2000,		
		machine, the load	and shall		
		shall be applied at a	comply the		
		rate of movement	accuracy		
		corresponding to a	required of IS		
		loading rate on the	14858-2000		
		specimen within the	(ii) The supplier		
		range of 0.14 or 0.24	shall also		
		MPa/s	provide		
		 Motorized, manual in 	calibration		
		emergency, auto	certificate as		
		shutdown facility	per ISO/ IEC		
		•Self-aligning platen	17025-2005		
		with fast accessory	(NABL)		
		changing capability	accredited		
		Machine must	duly bear the		
		determine stress	logo of		
		automatically	accreditation		
		Machine shall have	body on		
		data storage capacity	calibration		
		of 2000 records with	certificate,		
		download option	certifies the		
		through USB in ASCII	class of		
		format	machine.		
		Machine shall have	macinite.		
		option to define break			
		point by user			
		•Loading frame of the			
		machine must be fully			
		_			
		•			
		crossed head, base			
		and solid side walls			
		with the precision of			
		hydraulic piston fixed			
		to base			
		•Machine shall be]	

		equipped with two			
		steel bearing blocks			
		with hardened faces			
		9Vickers hardness not			
		less than 550)			
		Must have operator's			
		safety features like			
		metal door with a			
		Perspex window,			
		-			
		overload protection •Machine must have 2%			
		overload facility to			
		calibrate machine upto			
		full capacity			
		•Calibrated operating			
		range of machine shall			
		be from 10% to 100%			
<u></u>		of capacity			
2	Micro controller	•Capacity: 3000 kN	Class 1 /	1 No	25000/-
	based	•Least count: 0.1 kN	within±1% of the		
	Compression	•Comply to IS:14858-	indicated load,		
	Testing Machine	1	compliance to the		
		Digital (with Peak Hold	IS: 1828 (Part 1)		
	pace rate	Facility)			
	controller facility,		Calibration of		
	Accessories, Tools	capable of applying	Machine after		
	and Spares along		satisfactorily		
	with CVT	specified rate,			
			·		
	(constant voltage	J .	(i)Manufacturer		
	transformer)	shock, using automatic	shall carry out		
		control	the calibration		
		•Rate of loading for			
		hydraulically operated	per clause 10 of		
		machine, the load	IS 14858-2000,		
		shall be applied at a	and shall		
		rate of movement	comply the		
		corresponding to a	accuracy		
		loading rate on the	required of IS		
		specimen within the	14858-2000		
		range of 0.14 or 0.24	(ii) The supplier		
		MPa/s	shall also		
		Motorized, manual in	provide		
		emergency, auto	calibration		
		shutdown facility	certificate as		
		•Self-aligning platen	per ISO/ IEC		
		with fast accessory	17025-2005		
		changing capability	(NABL)		
		•Machine must	accredited		
		determine stress	duly bear the		
		automatically	logo of		
		Machine shall have	accreditation		
		data storage capacity	body on calibration		
		of 2000 records with			
		download option	certificate,		
		through USB in ASCII	certifies the		
		format	class of		
		LANGO CHOLL BOYO	machina		
		Machine shall have	machine.		
		option to define break point by user	macmine.		

	Г.		T		
	l l	ading frame of the achine must be fully			
	l l	elded with a top			
		ossed head, base			
		•			
		nd solid side walls			
		th the precision of			
	-	draulic piston fixed			
		base			
	•Ma	chine shall be			
	ec	uipped with two			
	st	eel bearing blocks			
	wi	th hardened faces			
	9\	lickers hardness not			
	le	ss than 550)			
		st have operator's			
	l l	fety features like			
		etal door with a			
		•			
		verload protection			
	l l	chine must have 2%			
		verload facility to			
		llibrate machine upto			
		II capacity			
		librated operating			
	ra	nge of machine shall			
	be	from 10% to 100%			
	of	capacity			
3	Los Angeles • Ma	achine must comply	 Calibration of 	1 No	5000/-
	Abrasion Testing to	IS 10070-1982	30-330 rpm of		
	3	achine shall consist	-		
	machine with • Ma	achine shall consist a hollow steel	cylinder		
	machine with • Macomplete Abrasive of	a hollow steel	cylinder • Calibration of		
	machine with of Macomplete Abrasive of Charge	a hollow steel linder arranged for	cylinder • Calibration of Abrasive charge		
	machine with of Macomplete Abrasive of cy ro	a hollow steel linder arranged for tating about its axis	cylinder Calibration of Abrasive charge for its hardness,		
	machine with of Macomplete Abrasive of cy ro in	a hollow steel linder arranged for tating about its axis a horizontal position	cylinder Calibration of Abrasive charge for its hardness, size and		
	machine with complete Abrasive Charge cy	a hollow steel dinder arranged for tating about its axis a horizontal position the hollow cylinder	cylinder Calibration of Abrasive charge for its hardness, size and individual and		
	machine with complete Abrasive Charge cyro	a hollow steel linder arranged for tating about its axis a horizontal position he hollow cylinder hall be made of steel	cylinder Calibration of Abrasive charge for its hardness, size and individual and composite		
	machine with complete Abrasive Charge cyroin The sh	a hollow steel clinder arranged for tating about its axis a horizontal position he hollow cylinder hall be made of steel th its ends closed	cylinder Calibration of Abrasive charge for its hardness, size and individual and composite weights of 12		
	machine with complete Abrasive Charge cy ro in Tr	a hollow steel clinder arranged for tating about its axis a horizontal position he hollow cylinder hall be made of steel of the cylinder shall be	cylinder Calibration of Abrasive charge for its hardness, size and individual and composite weights of 12 hardened cast		
	machine with complete Abrasive Charge cyro in The short with the complete Abrasive cyro cyro in The short with the complete Abrasive cyro in the cyronic cyron	a hollow steel clinder arranged for tating about its axis a horizontal position he hollow cylinder hall be made of steel of the cylinder shall be ounted on stub	cylinder Calibration of Abrasive charge for its hardness, size and individual and composite weights of 12 hardened cast iron spheres		
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The position of shelf shall be such that the distance from the shelf to the opening measured along the circumference of the cylinder in the direction of rotation shall be not less than 1250 mm. removable cover shall be provided to close the opening on the cylinder dust-tight and this shall be bolted in place. The removable cover shall be made of steel and shall be formed to maintain the cylindrical contour of the interior surface. The shelf shall be of mild steel The frame shall be of welded structural steel construction. channel carrying the motor and gear box shall be fixed rigidly to the frame. The Drive should be by means of a chain running over sprocket on the stub shat and sprocket on the shaft of a gear box coupled to a motor (1 hp, 3 phase, 1440 rpm). A clutch shall be provided. A revolution counter shall he provided to indicate the number of revolutions. The rate of rotation of the cylinder shall be 30-33 rpm. A Tray with lifting handles shall provided. The Abrasive charge shall consist of 12 hardened cast iron spheres 48±2 mm in diameter and each weighing between 390 and 455 g and a total of 12 numbers of

		spheres weighing 5000			
4	Concrete Vibrating Table	 ± 25 g. Size: 1m x 1m x 0.75m, for 16 moulds of 150 mm cube Comply IS:2514-1963 The table shall be capable of being operated either through an eccentric rotor driven by a prime mover, such as electric motor, internal combustion engine, pneumatic power, or directly by electro-magnetic pulsators. The table top shall of steel plate of not less than 10 mm thickness 	Calibration of Frequency of vibration for the table operating at its maximum load capacity shall between 3000 to 6000 cycles per minute.	1 No	3000/-
		or equivalent material. The table top shall be suitable braced and stiffened to vibrate evenly so that there is no significant variation in the vibration characteristics as measured at different points at its surface. The table top shall have simple clamping arrangements for fixation of the moulds.			
		shall have suitable clamps with which the moulds can be fixed and detached easily and quickly without undue loss of time. The bearings as well as the driving motor shall be fully enclosed so as to be dust proof. If the vibrating unit is pulsated by electromagnetic action, the electromagnet shall be mounted below the table and shall be sufficiently powerful to vibrate the table under full load at the			

Where the driving unit is not directly connected with the eccentric rotor, the efficiency of the drive shall be such that there is no significant slippage under full operating loads. All exposed parts of the table shall be given protective anticorrosive treatment to prevent them from rusting deterioration. Greasing nipples or closed type of lubricant points shall provided and conspicuously marked. The Frequency vibration for the table its operating at maximum load capacity shall be 3000 between to 6000 cycles per minute. vibration The characteristics shall observed (by actual measurements or by calculations) at different points of the table top by operating table the at its maximum load and capacity, the least of the observed values shall be taken into account to decide whether the limits specified as above are satisfied. The measurement of frequency and amplitude shall be carried out after installation at lab by supplier, the certificate of the same shall be submitted by supplier. The vibration acceleration of the table operating at its maximum load

		 1	
	capacity shall not be less than four times the acceleration due to gravity. The reduction in amplitude of the table while operating from 'no load' to 'full load' condition shall not exceed 25%. Vibrating table shall have a plate firmly attached to some part not easily removable. The plate shall have clearly marked on it the following information: a) Size of table b) Vibration characteristics i) Minimum amplitude at full load ii) Minimum frequency at full load c) Characteristics of driving unit, that is, electric motor, internal combustion engine, pneumatic motor or electromagnetic pulsator regarding: i) Output power rating ii) Voltage, phase and cycle current, and iii) Revolutions or pulsations per minute d) Manufacturer's name e) Machine Reference number; and f) Year of manufacture		
	f) Year of		
	may also be marked with the ISI Certification Mark.		
5	Laboratory Stone Jaw Crusher Capable for stone, aggregate, concrete, minerals and marbles Vield: 200 kg/hour Size of finished product: Adjustable	1 No	2000/-
	product: Adjustable		

from 3.2 mm to 12.5 mm 3 hp single phase motor with starter 6 Stone cutting machine table top with Accessories, Clamping system for specimen holding/ attachments, pump for cooling fluid and necessary consumables 7 Table top type automatic with provision for manual overdrive The machine shall be mounted on rigid heavy steel table and vice fitted to hold the specimen Work with electricity 230 V single phase Ability to cut the specimen with their applicable Adaptors, clamps & screws for 8", 12", 18" sieves along with their applicable Accessories, Tools, Spares and two sets of 15 Marked square holes Sieves; 1 set of brass frame sieves of 200 mm diameter consists of 10, 4.75, 2.36, 1.18, 0.6, 0.3 and 0.15 mm aperture size; and 1 set of GI frame sieves of 300 mm diameter consists of 40, 20, 1.25, 10, 4.75 and 2.36 mm aperture size. 8 UV-Visible double beam Spectrophotometer with Accessories, Tools and Spares 9 Salt Spray Made up of Acrylic 1 No 5000/-					
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	9			1 No	5000/-
		Chamber with Sheet 8 m	m thick		

	1	0 1 0: 20" 10"		1
	compressor	• Outer Size 30" x 18" x		
		15"		
		 Fitted with heater 		
		Filter & regulator		
		• Fitted with		
		temperature controller		
		•Tray for keeping		
		samples		
		 Rods for hanging 		
		samples		
		 NSF valve to give 		
		turbulence in salt		
		solution		
		 Fog exhaust unit 		
		 Drain ports 		
10	Double Water	Double distillation with	1 No	5000/-
	Distillation Plant	quartz heater with		
		safety cut-off device		
		Output: 5 ltr/ hr		
11	Oven	• Inner Chamber:	1 No	1000/-
		Stainless Steel		
		 Inside Chamber Size: 		
		350 x 350 x350 mm		
		 With Air Circulation 		
		Fan		
		• PID microprocessor		
		controller dual display		
		with safety alarm		
12	Coating Thickness	• Range: 0 – 1000 µm	1 No	5000/-
1 -	•	• Accuracy: ±3%		
		• Resolution: 1 µm		
	and Spares	Applicable for Flat or		
		Curved, Smooth or		
		thin ferrous or non-		
		ferrous metals		
		. Sirous motals		

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.

ANNEXURE-B

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
	Tender fee (if tender document uploaded from website)
Ο.	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 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 aftersales 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. 17th June, 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 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, in the format as placed under:

S. No.	Machine/ Equipment	Specificati	ons	Accura	icy		Comply Specifica and rea supply required Quantity (write NO only)	ation dy to l y YES/		and the	
				0.			3,		supplied)		
1		Capacity:	500	Class		within					
	controller	kN		±1%	of	the					
	based	Least	count:	indicat	ed	load,					
	Compression	0.02 kN		compli	ance	to the					
	Testing	Comply	to	IS: 18	28 (P	art 1)					
	Machine with	IS:14858	-2000		•						
	Automatic	 Digital 	(with	<u>Calibr</u>	ation	ı of					
	pace rate	Peak	Hold	Machi	ne	after					

1	- ···· \			
controller	Facility)	satisfactorily		
J ,		installation		
Accessories,	be capable of			
Tools and	applying the	shall carry out		
Spares along	load at the	the calibration		
with CVT	specified rate,	of machine as		
(constant	uniformly,	per clause 10		
voltage	without shock,	of IS 14858-		
transformer)	using automatic	2000, and		
	control	shall comply		
	Rate of loading	the accuracy		
	for hydraulically	required of IS		
	operated	14858-2000		
	machine, the			
	load shall be	shall also		
	applied at a	provide		
	rate of	calibration		
	movement	certificate as		
	corresponding	per ISO/ IEC		
	to a loading	17025-2005		
	rate on the	(NABL)		
	specimen within	accredited		
	the range of	duly bear the		
	0.14 or 0.24	logo of		
	MPa/s	accreditation		
	 Motorized, 	body on		
	manual in	calibration		
	emergency,	certificate,		
	auto shutdown	certifies the		
	facility	class of		
	Self-aligning platen with fast	machine.		
	platen with fast			
	accessory			
	changing capability			
	Machine must			
	determine			
	stress			
	automatically			
	Machine shall			
	have data			
	storage			
	capacity of			
	2000 records			
	with download			
	option through			
	USB in ASCII			
	format			
	Machine shall			
	have option to			
	define break			
	point by user			
	 Loading frame 			
	of the machine			
	must be fully			
	welded with a			
	top crossed			
	head, base and			
	solid side walls			

		1	T		
		with the			
		precision of			
		hydraulic piston			
		fixed to base			
		 Machine shall 			
		be equipped			
		with two steel			
		bearing blocks			
		with hardened			
		faces 9Vickers			
		hardness not			
		less than 550)			
		 Must have 			
		operator's			
		safety features			
		like metal door			
		with a Perspex			
		window,			
		overload			
		protection			
		 Machine must 			
		have 2%			
		overload facility			
		to calibrate			
		machine upto			
		full capacity			
		 Calibrated 			
		operating range			
		of machine			
		shall be from			
		10% to 100%			
		of capacity			
2	Micro	of capacity 3000	Class 1/ within		
2		• Capacity: 3000			
2	controller	Capacity: 3000 kN	±1% of the		
2	controller based	Capacity: 3000 kNLeast count:	±1% of the indicated load,		
2	controller	Capacity: 3000 kN	±1% of the		
2	controller based Compression	Capacity: 3000 kNLeast count: 0.1 kN	±1% of the indicated load, compliance to the		
2	controller based Compression Testing	 Capacity: 3000 kN Least count: 0.1 kN Comply to 	±1% of the indicated load, compliance to the IS: 1828 (Part 1)		
2	controller based Compression Testing Machine with	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of		
2	controller based Compression Testing Machine with Automatic	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after		
2	controller based Compression Testing Machine with Automatic pace rate	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily		
2	controller based Compression Testing Machine with Automatic pace rate controller	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation		
2	controller based Compression Testing Machine with Automatic pace rate controller	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily		
2	controller based Compression Testing Machine with Automatic pace rate controller facility,	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories,	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	 Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control 	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading for hydraulically	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS 14858-2000		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading for hydraulically operated	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS 14858-2000 (ii) The supplier		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading for hydraulically operated machine, the	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS 14858-2000 (ii) The supplier shall also		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading for hydraulically operated machine, the load shall be	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS 14858-2000 (ii) The supplier shall also provide		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading for hydraulically operated machine, the load shall be applied at a	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS 14858-2000 (ii) The supplier shall also provide calibration		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading for hydraulically operated machine, the load shall be	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS 14858-2000 (ii) The supplier shall also provide calibration certificate as		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading for hydraulically operated machine, the load shall be applied at a	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS 14858-2000 (ii) The supplier shall also provide calibration		
2	controller based Compression Testing Machine with Automatic pace rate controller facility, Accessories, Tools and Spares along with CVT (constant voltage transformer)	Capacity: 3000 kN Least count: 0.1 kN Comply to IS:14858-2000 Digital (with Peak Hold Facility) Machine shall be capable of applying the load at the specified rate, uniformly, without shock, using automatic control Rate of loading for hydraulically operated machine, the load shall be applied at a rate of	±1% of the indicated load, compliance to the IS: 1828 (Part 1) Calibration of Machine after satisfactorily installation (i) Manufacturer shall carry out the calibration of machine as per clause 10 of IS 14858-2000, and shall comply the accuracy required of IS 14858-2000 (ii) The supplier shall also provide calibration certificate as		

	T	(BLACE)		
	to a loading	(NABL)		
	rate on the	accredited duly		
	specimen within	bear the logo		
	the range of	of accreditation		
	0.14 or 0.24	body on		
	MPa/s	calibration		
	Motorized,	certificate,		
	manual in	certifies the		
	emergency,	class of		
	auto shutdown	machine.		
		macmine.		
	facility			
	Self-aligning			
	platen with fast			
	accessory			
	changing			
	capability			
	Machine must			
	determine			
	stress			
	automatically			
	 Machine shall 			
	have data			
	storage			
	capacity of			
	2000 records			
	with download			
	option through			
	USB in ASCII			
	format			
	Machine shall			
	have option to			
	define break			
	point by user			
	Loading frame			
	of the machine			
	must be fully			
	welded with a			
	top crossed			
	head, base and			
	solid side walls			
	with the			
	precision of			
	hydraulic piston			
	fixed to base			
	Machine shall			
	be equipped			
	with two steel			
	bearing blocks			
	with hardened			
	faces 9Vickers			
	hardness not			
	less than 550)			
	Must have			
	operator's			
	safety features			
	like metal door			
	with a Perspex			
	window,			
	overload			
•	_ ·			

	T	T .			
		protection Machine must have 2% overload facility to calibrate machine upto full capacity Calibrated operating range of machine shall be from 10% to 100% of capacity	Onlikensking of		
3	Los Angeles Abrasion Testing machine with complete Abrasive Charge	 Machine must comply to IS 10070-1982 Machine shall consist of a hollow steel cylinder arranged for rotating about its axis in a horizontal position The hollow cylinder shall be made of steel with its ends closed The cylinder shall be mounted on stub shafts attached to both ends but not entering it. Ball bearing housed in brackets shall be mounted over the shafts and the brackets shall be fixed to the frame. A removable steel shelf projecting radially into the cylinder and extending its full length shall be mounted along one element of the interior surface of the cylinder. The shelf be so 	30-330 rpm of cylinder • Calibration of Abrasive charge		

mounted by		
bolts as to be		
firm and rigid.		
 The position of 		
the shelf shall		
be such that		
the distance		
from the shelf		
to the opening		
measured along		
_		
the		
circumference		
of the cylinder		
in the direction		
of rotation shall		
be not less than		
1250 mm.		
A removable		
cover shall be		
provided to		
close the		
opening on the		
cylinder dust-		
tight and this		
shall be bolted		
in place. The		
removable		
cover shall be		
made of steel		
and shall be		
formed to		
maintain the		
cylindrical		
_		
contour of the		
interior surface.		
 The shelf shall 		
be of mild steel		
• The frame shall		
be of welded		
structural steel		
construction. A		
channel		
carrying the		
motor and gear		
box shall be		
fixed rigidly to		
the frame.		
• The Drive		
J		
means of a		
chain running		
over a sprocket		
on the stub		
shat and		
sprocket on the		
shaft of a gear		
box coupled to		
a motor (1 hp,		
3 phase, 1440		

F	T			T	
		rpm). A clutch			
		shall be			
		provided. A			
		revolution			
		counter shall be			
		provided to			
		indicate the			
		number of			
		revolutions.			
		The rate of			
		rotation of the			
		cylinder shall			
		be 30-33 rpm.			
		• A Tray with			
		lifting handles			
		shall be			
		provided.			
		• The Abrasive			
		charge shall			
		consist of 12			
		hardened cast			
		iron spheres			
		48±2 mm in			
		diameter and			
		each weighing between 390			
		and 455 g and			
		a total of 12			
		numbers of			
		spheres			
		weighing 5000			
_	2	± 25 g.	0 111 11 6		
4	Concrete	• Size: 1m x 1m			
	Vibrating	x 0.75m, for	Frequency of		
	Table	16 moulds of			
		150 mm cube	table operating		
		• Comply	at its maximum		
		IS:2514-1963	load capacity		
		 The table shall 	shall between		
		be capable of	3000 to 6000		
		being operated	cycles per		
		either through	minute.		
		an eccentric			
		rotor driven by			
		a prime mover,			
		such as electric			
		motor, internal			
		combustion			
		engine,			
		pneumatic			
		power, or			
		directly by			
		electro-			
		magnetic			
		pulsators.			
		• The table top			
		shall of steel			
		plate of not			
		-		İ	
		less than 10			

T T	1		T	
	mm thickness			
	or equivalent			
	material.			
	 The table top 			
	shall be			
	suitable braced			
	and stiffened			
	to vibrate			
	evenly so that			
	there is no			
	significant			
	variation in the			
	vibration			
	characteristics			
	as measured at			
	different points			
	at its surface.			
	• The table top			
	shall have			
	simple			
	clamping			
	arrangements			
	for fixation of			
	the moulds.			
	 The sides of the 			
	table shall			
	have suitable			
	clamps with			
	which the			
	moulds can be			
	fixed and			
	detached easily			
	and quickly			
	without undue			
	loss of time.			
	• The bearings as			
	•			
	well as the			
	driving motor			
	shall be fully			
	enclosed so as			
	to be dust			
	proof.			
	 If the vibrating 			
	unit is pulsated			
	by			
	_			
	electromagneti			
	c action, the			
	electromagnet			
	shall be			
	mounted below			
	the table and			
	shall be			
	sufficiently			
	powerful to			
	vibrate the			
	table under full			
	load at the			
	required			
	vibration.			
	·			

Where the driving unit is not directly connected with the eccentric rotor, the efficiency of the drive shall be such that there is no significant slippage under full operating loads. All exposed parts of the table shall be given protective anticorrosive treatment to prevent them from rusting or deterioration. Greasing nipples or closed type of lubricant points shall be provided and conspicuously marked. The Frequency of vibration for the table operating at its maximum load capacity shall be between 3000 to 6000 cycles per minute. The vibration characteristics shall be observed (by actual measurements or by calculations) at different points of the table operating the measurements or by calculations) at different points of the table top by concentring the content of the content of the characteristics of the table top by content of the content			ı	1
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different points of the table top	or by			
different points of the table top	calculations) at			
of the table top	=			
I DV ODGESTIDO	-			
	by operating			
the table at its				
maximum load	maximum load			
capacity, and				
the least of the				
observed				
values shall be	values shall be			

		1
taken into		
account to		
decide whether		
the limits		
specified as		
above are		
satisfied.		
• The		
measurement		
of frequency		
and amplitude		
shall be carried		
out after		
installation at		
lab by supplier,		
the certificate		
of the same		
shall be		
supplier.		
The vibration		
acceleration of		
the table		
operating at its		
maximum load		
capacity shall		
not be less		
than four times		
the		
acceleration		
due to gravity.		
• The reduction		
in amplitude of		
the table while		
operating from		
`no load' to `full		
load' condition		
shall not		
exceed 25%.		
Vibrating table		
shall have a		
plate firmly		
attached to		
some part not		
easily		
removable. The		
plate shall		
have clearly		
marked on it		
the following		
information:		
a) Size of table		
b) Vibration		
characterist		
ics		
i) Minimum		
amplitude		
at full load		
ii) Minimum		

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		I		I	1
		frequency			
		at full load			
		c) Characteristi			
		cs of			
		driving unit,			
		that is,			
		electric			
		motor,			
		internal			
		combustion			
		engine,			
		pneumatic			
		motor or			
		electromag			
		netic			
		pulsator			
		regarding:			
		i) Output			
		power			
		rating			
		ii) Voltage,			
		phase and			
		cycle			
		current,			
		and			
		iii) Revolution			
		s or			
		pulsations			
		per minute			
		d) Manufacture			
		r's name			
		e) Machine			
		Reference			
		number;			
		and			
		f) Year of			
		-			
		manufactur			
		e The Wilese times			
		• The Vibrating			
		table may also			
		be marked with			
		the ISI			
		Certification			
		Mark.			
5		 Capable for 			
	Stone Jaw	stone,			
	Crusher	aggregate,			
		concrete,			
		minerals and			
		marbles			
		• Yield: 200			
		kg/hour			
		 Size of finished 			
		product:			
		Adjustable			
		from 3.2 mm			
		to 12.5 mm			
		• 3 hp single			
		phase motor			

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		with starter		
6		 Capable for Rock, Concrete cores, masonry, Stones, building materials and metallic specimens Table top type automatic with provision for manual overdrive The machine shall be mounted on rigid heavy steel table and vice fitted to hold the specimen Work with electricity 230 V single phase Ability to cut the specimen size of 200 mm deep 		
7	Sieve shaker for 8", 12"	IS:460° • Capable to carry 8 sieves at a time		
8	UV-Visible double beam Spectrophoto meter with Accessories, Tools and	 Optical System: Double Beam 1200L/mm Wavelength range: 190- 1100 nm Wavelength accuracy: ± 0.1 nm or better 		
9	Chamber	 Made up of Acrylic Sheet 8 mm thick Outer Size 30" x 18" x 15" Fitted with heater 		

		• Filter &				
		regulator				
		 Fitted with 				
		temperature				
		controller				
		Tray for keeping				
		samples				
		 Rods for 				
		hanging				
		samples				
		 NSF valve to 				
		give turbulence				
		in salt solution				
		Fog exhaust				
		_				
		unit				
	-	Drain ports				
10	Double Water					
	Distillation	distillation with				
	Plant	quartz heater				
		with safety				
		cut-off device				
		• Output: 5 ltr/ hr				
11	Oven	Inner Chamber:				
		Stainless Steel				
		 Inside Chamber 				
		Size: 350 x				
		350 x350 mm				
		• With Air				
		Circulation Fan				
		• PID				
		microprocessor				
		controller dual				
		display with				
		safety alarm				
12	Coating	• Range: 0 -				
12	Thickness	1000 µm				
		• Accuracy: ±3%				
		• Resolution:1 µm				
		Applicable for				
		Flat or Curved,				
	Spares	Smooth or thin				
		ferrous or non-				
		ferrous metals				
	From 1 to 12		Total EMD (Rs.)			
			DD No	Date	d	
	drawn on scheduled/ nationalized bank in					in
	favour of 'NSIC LtdNTSC A/c' payable at New Delhi.					

- g. 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.
- h. No price of any Machine/ Equipment/ Spares/ Accessories shall be given in Technical Bid.

Signature of the Tenderer with stamp

ANNEXURE-C

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		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	В	С	D	E=ΣE1En	F=D+E	G=CxF	Н
Tota	 al:						

- 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