

# RURAL CONNECTIVITY TRAINING AND RESEARCH CENTRE

PANCHAYATS & RURAL DEVELOPMENT DEPARTMENT

GOVT. OF WEST BENGAL

PLOT No. B/4, SCHOOL AREA (PT.), KALYANI, NADIA

e-mail: [wbrctrc.kalyani@gmail.com](mailto:wbrctrc.kalyani@gmail.com), [rctrc.kalyani@gmail.com](mailto:rctrc.kalyani@gmail.com)

Website: [www.rctrcwestbengal.com](http://www.rctrcwestbengal.com)

## Detailed Notice Inviting Tender for Installation of Micro Controller Based Compression Testing Machine-Servo Controller in Compression testing machine installed in the Civil Engineering laboratories at RCTRC, Kalyani, Nadia (TWO COVER SYSTEM) e-NIT No.: -06/RCTRC/2025-26

No. 2629/RCTRC/2026

Date: 24.02.2026

For and on behalf of Governor of West Bengal, the Manager (Training), RCTRC, Kalyani & Executive Engineer, Department of Panchayat and Rural Development, Govt. of West Bengal, invites- online Item Rates Tender for the following work of “*Installation of Micro Controller Based Compression Testing Machine-Servo Controller in Compression testing machine installed in the Civil Engineering laboratories at RCTRC, Kalyani, Nadia*” in two cover systems. Resourceful and Bona-fide contractors/ agencies of Government/Semi Government/Undertaking/Autonomous Bodies/Statutory Bodies and Local Bodies who satisfy the terms and conditions set out in pre-qualification document and having registration in e-procurement portal ([www.wbtenders.gov.in](http://www.wbtenders.gov.in)) under Govt. of West Bengal may submit their bids. The intending bidders must have completed at least one work of similar nature in a single contract as a prime contractor within last five years from the date of issue of this NIT. The pre-qualification documents are to be uploaded in two separate folders. One of the folders shall contain technical documents. Financial Bids are to be uploaded in another folder. The Tenders shall be available for viewing in our website [www.wbtenders.gov.in](http://www.wbtenders.gov.in)

Sl. No.	Name of Work	Place of work	Earnest Money (Rs.)	Time allowed for Completion of work	Defect Liability Period
1.	<i>Installation of Micro Controller Based Compression Testing Machine-Servo Controller in Compression testing machine installed in the Civil Engineering laboratories at RCTRC, Kalyani, Nadia</i>	RCTRC, Kalyani, Nadia	30,000.00 (Earnest Money shall be 2% of the quoted rate. If 2% of the quoted rate is more than Rs. 30,000 then the difference amount shall be deposited before awarding of supply order)	30 Days	12 Months

1. The list of equipment to be calibrated is as per Annexure- D.
2. Intending bidders may download tender documents from e-procurement portal of our website: [www.wbtenders.gov.in](http://www.wbtenders.gov.in) from- 27/02/2026 11:00 Hours to 17/03/2026 (up to 15:00 Hours). The pre qualification bid documents duly filled and digitally signed in all respect may be submitted online before 16:00 hrs (as per server clock) on - 17/03/2026
3. Tender Inviting Authority will not take any responsibility for the delay caused due to non-availability of internet connection or traffic jam etc. for on-line bidding. Bidders shall quote online their prices and submit online Technical and Financial Bids in prescribed formats through the above mentioned portal only. **Manual submission of Bids is not allowed.**
4. **Earnest Money /Bid Security: Earnest Money Deposit (EMD) shall be deposited by online mode only** following memorandum of the Finance Department Audit Branch Memo No. 3975-F(Y) dated. 28.07.2016(GRIPS) as reproduced below:

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## **I. Login by bidder:**

- a) A bidder desirous of taking part in a tender invited by a State Government Office/PSU/Autonomous Body/Local Body/ PRIs, etc. shall login to the e-Procurement portal of the Government of West Bengal <https://wbenders.gov.in> using his login ID and password.
- b) He will select the tender to bid and initiate payment of pre-defined EMD / Tender Fees for that tender Fees for that tender by selecting from either of the following payments modes:
  - i) Net banking (any of the banks listed in the ICICI Bank Payment gateway) in case of payment through ICICI Bank Payment Gateway;
  - ii) RTGS/NEFT in case of offline payment through bank account in any Bank.

## **II. Payment procedure:**

### **a) Payment by Net Banking (any listed bank) through ICICI Bank Payment Gateway:**

- i. On selection of net banking as the payment mode, the bidder will be directed to ICICI Bank Payment Gateway webpage (along with a string containing a Unique ID) where he will select the Bank through which he wants to do the transaction.
- ii. Bidder will make the payment after entering his Unique ID and password of the bank to process the transaction.
- iii. Bidder will receive a confirmation message regarding success/failure of the transaction.
- iv. If the transaction is successful, the amount paid by the bidder will get credited in the respective Pooling account of the State Government /PSU/Autonomous Body/local Body/PRIs, etc. maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road, Kolkata for collection of EMD/Tender Fees.
- v. If the transaction is failure, the bidder will again try for payment by going back to the first step.

### **b) Payment through RTGS/NEFT:**

- i. On selection of RTGS/NEFT as the payment mode, the e-Procurement portal will show a pre-filled challan having the details to process RTGS/NEFT transaction.
- ii. The bidder will print the challan and use the pre-filled information to make RTGS/NEFT payment using his Bank account.
- iii. Once payment is made, the bidder will come back to the e-Procurement portal after expiry of a reasonable time to enable the NEFT/RTGS process to complete, in order to verify the payment made and continue the bidding process.
- iv. If verification is successful, the fund will get credited to the respective Pooling account of the State Government /PSU/ Autonomous Body/Local Body/PRIs, etc. maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road, Kolkata for collection of EMD/Tender Fees.
- v. Hereafter, the bidder will go to e-Procurement portal for submission of his bid.
- vi. But if the payment verification is unsuccessful, the amount will be returned to the bidder's account.

## **III. Refund/Settlement Process:**

- i. After opening of the bids and technical evaluation of the same by the tender inviting authority through electronic processing in the e-Procurement portal of the State Government, the tender inviting authority will declare the status of the bids as successful or unsuccessful which will be made available, along with the details of the unsuccessful bidders, to ICICI Bank by the e-Procurement portal through web services.
- ii. On receipt of the information from the e-Procurement portal, the Bank will refund, through an automated process, the EMD of the bidders disqualified at the technical evaluation to the respective Bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of bid is uploaded to the e-Procurement portal by the tender inviting authority.
- iii. Once the financial bid evaluation is electronically processed in the e-Procurement portal, EMD of the technically qualified bidders other than that of the L1 and L2 bidders will be refunded, through an automated process, to the respective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of financial bid is uploaded to the e-Procurement portal by the tender inviting authority. However, the L2 bidder should not be rejected till the LOI process is successful.

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iv. If the L1bidder accepts the LOI and the same is processed electronically in the e-Procurement portal, EMD of the L2 bidder will be refunded through an automated process, to his bank account from which he made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on Award of Contract (AOC) to the L1bidder is uploaded to the e-Procurement portal by the tender inviting authority.

v. As soon as the L1bidder is awarded the contract (AOC) and the same is processed electronically in the e-Procurement portal –

a) EMD of the L1bidder for tender of State Government offices will automatically get transferred from the pooling account to the State Government deposit head 1/8443-0 -103-001-07" through GRIPS along with the bank particulars of the L1 bidder.

b) EMD of the L1 bidder for tenders of the State PSUs/Autonomous Bodies/Local Bodies/PRIs, etc. will automatically get transferred from the pooling account to their respective inked bank accounts along with the bank particulars of the L1 bidder.

In both the above cases, such transfer will take place within T+1 Bank Working Days where T will mean the date on which the Award of Contract (AOC) is issued.

vi. The Bank will share the details of the GRN No. generated on successful entry in GRIPS with the E-Procurement portal for updation.

vii. Once the EMD of the L1 bidder is transferred in the manner mentioned above, Tender fees, if any, deposited by the bidders will be transferred electronically from the pooling account to the Government revenue receipt head 1/0070-60- 800-013-27" through GRIPS for Government tenders and to the respective linked bank accounts for State PSU/Autonomous Body/Local Body/PRIs, etc.tenders.

viii. All refunds will be made mandatorily to the Bank A/c from which the payments of EMD & Tender Fees (if any) were initiated.

**Earnest Money deposited through any other mode shall render the bid invalid as per Government of West Bengal, Finance (Audit) Department Memo No. 2365-F(Y) dated 12/04/2018.**

6. The pre-qualification (Technical Bids) documents will be opened on 16/03/2026 at 11:00 hours by the authorized officers.

7. Tender Inviting authority reserves the right to call for original document for verification from successful bidder(s) only in case of exceptional circumstances.

8. The results of the technical evaluation shall be made public on e-procurement systems following which there will be a period of **02 (TWO)** days during which any bidder may submit **complaint** which shall be considered for resolution before opening the financial bid.

9. The Financial bid of the technically qualified bidders will be opened for evaluation and the financial bid of non-qualified bidders will remain unopened. No separate intimation will be given for this, unless the above date is changed. In case of change of date, due intimation will be given on-line only.

10. Tender Inviting authority reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids, at any point of time prior to the issuance of work order, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the authority's action.

11. Acceptance of Tender (AOT) will be issued after approval of competent authority.

12. GST, Cess, Taxes and Duties if any at applicable rates will be deducted from the bill of the supplier.

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## 14. Performance Security

- A. 8% of the final amount shall be deducted as Performance Security. This amount in addition to the E.M.D. (2%) will be refunded after Defect Liability Period provided the instrument is in the best condition.
- B. Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the Earnest Money or execution of the Bid-Securing Declaration.
- C. The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- D. The Performance Security shall be denominated in the currencies of the Contract, or in a freely convertible currency acceptable to the Purchaser, and shall be in one of the forms stipulated by the Purchaser.
- E. The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations (Defect Liability Period).

## 15. The eligibility criteria are given below:

- A. The applicant in the same name and style should have achieved annual turnover of value not less than Rs. 50.00 lakhs.
- B. The applicant in the same name and style as prime contractor/agency should have successfully completed at least one contract of same type of work in central government organization/ PSU/government undertaking organization/state government organization/state government undertakings within the last 5 years from the date of Publication of this NIT.
- C. Financial statements for the last 05 (Five) years (Audited).
- D. Income Tax return should be submitted for last 3 years.
- E. GST registration Certificate, Professional Tax registration certificate, Pan Card (Income Tax), Trade license should be furnished.
- F. Joint venture will not be allowed
- G. Proposal for subcontracting is not allowed.
- H. No CONDITIONAL/INCOMPLETE TENDER will be accepted under any circumstances.
- I. The bid of any Black listed agency will not be accepted.
- J. Arbitration will not be allowed in any case.
- K. Prospective applicants are advised to note carefully the **documents to be uploaded** for qualification as mentioned in the "Instruction to Bidder" before bidding.
- L. The bidder must have valid NABL certification in the field of calibration. Document to be uploaded during submission of bid.
- M. The bidder must have sophisticated master calibration equipment and trained skill manpower.
- N. Calibration certificates without NABL certification will not be accepted.
- O. The bidder must submit NABL Accredited scope of calibration available with the bidder at the time of bid submission.

All duties, GST, taxes, royalties, cess, toll, taxes and other levies payable by the Contractor under the Contract to the State / Central Government for any other cause, shall be included in the rates, prices and total Bid price submitted by the bidder.

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To keep the Laboratory Testing Equipment in good condition during the next 12 (Twelve) months after the satisfactory certificate issued by the Manager Training, RCTRC regarding installation & calibration, if required the same will be treated as defect liability and the Contractor has to do the maintenance work at his own cost. If the defect will not be rectifiable then the same should be replaced with new one.

## B) List of Important Dates of Bids: -

Sl No.	Particulars		Date	Time
1	Published Date	On	26/02/2026	18:00 hrs
2	Documents Download / Sale Start Date	From	27/02/2026	11:00 hrs
3	Documents Download / Sale End Date	To	17/03/2026	15:00 hrs
4	Bid Submission Start Date	From	27/02/2026	11:00 hrs
5	Bid Submission End Date	To	17/03/2026	16:00 hrs
6	Pre-Bid Meeting	On	02/03/2026	13:00 hrs
	Place of Pre-Bid Meeting	Office of Manager (Training), RCTRC, Kalyani, Nadia		
7	Bid Opening Date (Technical)	On	19/03/2026	17:00 hrs
8	Bid Opening Date (Financial)	After Evaluation of technical Bid		
9	Place of Opening Bid	Office of Manager (Training), RCTRC, Kalyani, Nadia		
10	Officer Inviting Bid	Office of Manager (Training), RCTRC, Kalyani, Nadia		
11	Last Date of Bid Validity	120 days from the date of opening of Financial Bid		

No separate intimation will be given for this, unless the above date is changed. In case of change of date, due intimation will be given on-line. No individual intimation will be given.

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## Instructions to Bidders (ITB)

### A. Scanned copies of the following documents to be up-loaded in PDF format in e-portal website

<https://www.wbtenders.gov.in>

1. Copy of Earnest money deposit challan with clearly written UTR/ Txn number
2. GST registration certificate (GSTIN)
3. Pan card (IT)
4. Trade license (latest valid)
5. Income tax return for last 5 years
6. Professional Tax registration certificate
7. Valid Registration Certificate with EPF Organization under EPF and Misc. Provision Act 1952
8. Financial statement and Balance sheet of last 5 years (Audited if applicable). UDIN should be mentioned if applicable (**UDIN to be mentioned at least for the FY which will be considered for qualification in turnover**) reports submitted beyond 1st July 2019.
9. Payment certificates (Signed by Competent Authority) to be uploaded in support of Turnover. Form 26AS will also be considered for determination of Turnover and Bid Capacity Calculations subject to verification by Department in presence of the bidder/his representative. The turnover will be indexed at the rate of 8 percent simple interest for a year.
10. The applicant in the same name and style as prime supplier should have successfully completed at least one contract of same type of work within the last 5 years from the date of Publication of this NIT
11. Tender form and NIT with all addendum and corrigendum to be uploaded will be (download and digitally signed. Quoting rate will only be encrypted in the B.O.Q under financial bid. In case quoting any rate in printed tender form, the tender will be summarily rejected)
12. Partnership firm shall furnish **partnership deed** and company shall furnish the Article of Association and Memorandum.
13. The registered cooperative societies should submit the registration certificate.
14. Power of attorney (in case of Partnership firm /Registered Co-Operative Society/Company) to be uploaded.
15. Bank Credit Certificate of Rs.            lac for each work should be provided as per format. (Format Attached as **annexure B**).
16. Affidavit regarding non-employment of any Government official under him, deployment of machineries, technical personnel, correctness of certificates, and investment of minimum cash up to 30% of the contract price as per **annexure-A**.
17. Letter head of the agency/contractor containing Name addresses and contact details. During the currency of the project and after completion if the address of the agency/contractor changes, it will be the responsibility of the contractor to intimate the authority regarding such changes.

### B. Other instructions

- Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.
- The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees up to **two decimal places**.
- No Mobilization Advance and Advance against purchase of equipment will be paid for the work
- No Advance of any kind will be paid for the work under any circumstances
- Under no circumstances Escalation in prices in materials, labour charges, cost of P.O.L. & arbitration will be entertained.
- The Employer requires the bidders/Contractors to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.
- There will be no price preference to any bidder.
- Bid of any Black listed bidder will be rejected.
- No interest claim will be admissible during refund of earnest money and security deposit.

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- Uploaded documents of valid successful bidders may be verified with the original in due course. The valid
- Successful bidders have to show the originals to the concerned authority as and when required.
- Any bill (running account/final) payment of proposed executed work may be made to Agency as per availability of State fund.
- Time allowed for completion of work will be measured from the date of issue of work order.
- Bidding documents (NIT and SBD) is to be uploaded by the bidder. The bidder has to only agree/disagree on the conditions in the bidding document. The bidders who disagree on the conditions of bidding document cannot participate in the tender and his /their bid will be treated as informal.
- **Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:**
  - (i) Made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and / or record of submission of any false / fake document(s).
  - (ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.
- Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for the work is equal to or more than the total bid value. The available bid capacity will be calculated as per **annexure -B:**
- The successful bidder shall have to abide by all the labor related and other rules, regulations and laws of the land and the Tender Inviting Authority in no way shall be held responsible for financial or any other consequences arising out of non his noncompliance of the same.
- **Tax Invoice needs to be issued by the agency**/contractor for raising claim showing separately the tax charged in accordance with the provisions of GST Act, 2017.
- The Contractor at his cost shall provide, in the joint names of the Employer (Executive Engineer) and the Contractor, insurance cover (**Contractor All Risk Insurance, CAR**) of the Work from the start date of work to the end date of successful completion of the work.
- The method and condition of payment to be made to the supplier under this contract shall be as follows:-

(i) Advance Payment : No advance payment will be made

(ii) On Completion of work: Hundred (100) percent of the contract price upon completion of work, upon presentation of invoice for payment, evidence of satisfactory performance of the equipment.

- **Priority of Documents:** The documents forming the contract are to be taken as mutually explanatory of one another. For purpose of interpretation, the priority of the documents shall be in accordance with the following sequence.
  - a. Notice to Proceed with the works;
  - b. Letter of acceptance;
  - c. Notice Inviting Tender
  - d. Special Conditions of Contract and General Conditions of Contract
  - e. Specifications
  - f. Bill of Quantities; and
  - g. Any other document listed in the Contract Data as forming part of the Contract.

  
Manager (Training), RCTRC, Kalyani  
&  
Executive Engineer, P&RD Dept.  
Govt. of West Bengal

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**Memo No: 2629/RCTRC/2026**

**Date: 24.02.2026**

Copy forwarded for kind information to: -

1. The Spl.Secretary to the Govt. of West Bengal, P&RD Dept. & ACEO, WBSRDA
2. The Chief Engineer, P&RD Dept., Govt. of West Bengal
3. The Superintending Engineer (All)
4. The Financial Controller, WBSRDA (HQ).
5. The Sr.PS to the Secretary, P&RD Department
6. MIS Cell of this Deptt. They are requested to upload this NIT in the Department's website
7. Office Notice Board.



**Manager (Training), RCTRC, Kalyani  
&  
Executive Engineer, P&RD Dept.  
Govt. of West Bengal**

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## **ANNEXURE-A**

### **SAMPLE FORMAT OF AFFIDAVIT**

I, Sri.....,S/o Sri.....aged.....years, Residing  
at.....Proprietor/Partner/Director of.....,do hereby solemnly affirm and declare in  
connection of Supply of..... is as follows :

1. That I, the undersigned do certify that all the information furnished & statements made in the bid documents are true and correct to the best of my knowledge and belief.
2. That the undersigned also hereby verifies that neither any near relations of SE/EE/DE/AE/JE of the department nor any retired gazetted officers are in our employment.
3. The undersigned would authorize and request any bank, person, firm or corporation to furnish pertinent information as deemed necessary and or as requested by the department to verify this statement.
4. The undersigned understands and agrees that the bid shall remain open for Acceptance 120 days from the date of opening of financial bid.
5. I further declare solemnly that at any stage of tender process or during the currency of the project work if the above parameters are found to be false or forged or not genuine then my EMD/Security Deposit/Performance Security Deposit, if any, will be forfeited to Government Account. I further declare that I am aware of initiation of any proceedings as per provisions in Law.

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## **ANNEXURE-B**

### **SAMPLE FORMAT FOR BANK CREDIT CERTIFICATE (BANK LETTER HEAD WITH ADDRESS)**

#### **BANK CERTIFICATE**

This is to certify that ----- is a reputed company with a good financial standing.  
If the contract for the work, namely, \_\_\_\_\_ (Tender No. &Name of work) is  
awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs.  
\_\_\_\_\_ to meet their working capital requirements for executing the above contract.

Signature of Senior Bank Manager \_\_\_\_\_  
Name of the senior Bank Manager \_\_\_\_\_  
Address of the Bank -----

Stamp of the Bank

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Website: [www.rctrcwestbengal.com](http://www.rctrcwestbengal.com)

## ANNEXURE-C

### BANK GUARANTEE FOR ADDITIONAL PERFORMANCE SECURITY DEPOSIT

To  
The Manager Training (RCTRC) &  
Executive Engineer, P&RD Dept.  
Govt. of west Bengal.

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Account Details	
Account Name	
Beneficiary Bank Account No	
IFSC Code	
MICR Code	
Branch Address	

WHEREAS ..... [NAME AND ADDRESS OF COMPANY] (here after called "The Contractor") has undertaken , in pursuance of to execute..... (hereinafter called "The Contract"). AND WHEREAS it has been stipulated by you in the said contract that the contractor shall furnish you with a Bank Guarantee by a scheduled commercial bank for the sum specified therein for 'ADDITIONAL PERFORMANCE SECURITY DEPOSIT' for compliance with his obligation in accordance with the Contract.

AND WHEREAS we ..... (indicate the name of the bank branch ) have agreed to give the contractor such a Bank Guarantee. NOW THEREFORE we ..... (indicate the name of the bank & branch) hereby affirm that we are the Guarantor and responsible to you on behalf of the contractor , up-to a total of Rs..... [amount of guarantee].....(in words). We undertaken to pay you, upon your first written demand and without cavil or argument, a sum within the limits of ..... [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein to the above beneficiary bank account. We.....(indicate the name of the bank & branch) hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.

We .....(indicate the name of the bank & branch) further agree to pay to you any money so demanded not withstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto. Our liability under this present guarantee is absolute and unequivocal.

The payment / so make by us under this bond shall be a valid discharge of our liability for payment thereunder and the contractor (s) shall have no claim against us for making such payment.

We ..... (indicate the name of the bank & branch) further agree that no change or addition to or other modification of the terms of the contract or of the works to be performed thereunder or of any of the contract documents, which may be made between you and the contractor, shall, in anyway, release us from any liability under this guarantee and we hereby waive notice of any such change , addition or modification.

We, ..... (indicate the name of the bank & branch) also undertake not to revoke this guarantee except with your prior written consent.

The Guarantee shall be valid up to ..... It comes into force with immediate effect and shall remain in force and valid for a period of One year and Six months (Construction period claim period of six months). Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.

.....(Rs.....) and unless a claim in writing is lodged with us within the validity period of this Guarantee, i.e. up to ..... , all our liabilities under this Guarantee shall cease to exist.

Signed and Sealed this day of 20.....at

SIGNED, SEALD AND DELIVERED

For and on behalf of the BANK by

(Signature)

(Name)

(Designation)

(Code Number)

(Address)

# RURAL CONNECTIVITY TRAINING AND RESEARCH CENTRE

PANCHAYATS & RURAL DEVELOPMENT DEPARTMENT

GOVT. OF WEST BENGAL

PLOT No. B/4, SCHOOL AREA (PT.), KALYANI, NADIA

e-mail: [wbrctrc.kalyani@gmail.com](mailto:wbrctrc.kalyani@gmail.com), [rctrc.kalyani@gmail.com](mailto:rctrc.kalyani@gmail.com)

Website: [www.rctrcwestbengal.com](http://www.rctrcwestbengal.com)

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## Annexure – D

### Scope of work:

#### ***Compliance with Following International Standards:***

IS: 560, ASTM C39, IS: 14858 (2000)

***Controller:*** The intelligent Controller enables automatic pace rate control, data logging, data printing, and load hold functionalities, ensuring consistent and reliable testing parameters.

***PID Feedback Control:*** With full three-term PID feedback control using servo motors and driver sets, the machine maintains precise pace rates for accurate and repeatable testing.

***Silent Hydraulic Pump:*** Our machine features a silent hydraulic pump, providing a quieter work environment without compromising performance.

#### Key Features:

***Advanced Control Features:*** The machine automatically controls the pump, adjusts pace rates, and initiates shutdown under predetermined conditions, optimizing workflow and minimizing manual intervention.

***Servo Motor Operated Hydraulic Pump:*** A servo motor-controlled hydraulic pump integrated into a compression testing machine provides precise and dynamic force control during testing operations. By combining the accuracy of servo motor technology with the power of hydraulic systems, this feature ensures consistent and reliable compression testing across various materials and sample types. The servo motor allows for real-time adjustments to the hydraulic pressure, enabling precise control over the compression force applied to specimens. This capability ensures repeatable results and accommodates complex testing requirements. Moreover, the servo motor-controlled hydraulic pump enhances safety by offering overload protection and emergency stop functionalities, thereby safeguarding both the equipment and operators during testing procedures. Overall, this feature optimizes the performance, accuracy, and safety of compression testing machines.

#### System Description:

***Loading Unit:*** The Loading Unit of a compression testing machine, featuring an oil-filled ball socket, piston, and cylinder assembly, embodies precision and reliability in concrete testing. The integration of an oil-filled ball socket ensures frictionless movement, guaranteeing accurate force transmission essential for dependable compression testing results. This combination of components facilitates uniform force distribution across test specimens, minimizing stress concentrations and ensuring consistent material characterization. Operators benefit from adjustable compression parameters, enabling customization according to specific testing standards or protocols. Safety mechanisms, including over travel protection prioritize operator safety and prevent equipment damage during testing procedures.

***Electronic controller with Touch display:*** This is the touch screen EDI & features the integral load pacing bar display, live pace rate display, maximum load & stress result display, USB output & also Wi-Fi enabled. Results from approximately 2000 completed tests can be stored in the memory & these results can be in Imperial/English, Metric of SI units. These results can further be downloaded to PC through USB.

***Precision Platens:*** Hardened, ground, and polished platens ensure accurate and reliable testing, with a self-aligning action and suitably sized spacers to accommodate various specimen sizes.

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## **Additional Features:**

Exceeds specifications of IS: 516 & IS: 14858 (2000)  
Heavier frame for increased stiffness and improved aesthetics  
Servo motor powered pump for daylight closure  
Noiseless operation  
Oil-filled ball seating with heavy-duty upper platen for stability  
High degree of control throughout the testing process  
Door closed safety feature  
Over piston travel protection  
10.1 inch TFT LED backlit display, Resolution: 800x480 (RGB)  
Unique storage options: internal memory, USB, and Wi-Fi-based cloud storage  
Real-time display of load vs. time graph  
Wi-Fi enabled for data transfer and standalone operation (optional)  
Automatic pace rate control and stress determination  
Overload safety protection  
Configurable engineering unit selection

## **Flexural Strength Measurement with Micro Controller Compression Testing Machine - Servo Controlled:**

In addition to compressive strength an attachment for measuring Flexural strength of beam can also be supplied at an extra cost. This is accomplished by providing a frame for testing flexural strength along with the dedicated software which can be used as an attachment to the existing system.

## **Split Tensile Strength Measurement for Cylindrical & Cubical samples:**

In addition to compression strength attachments for Split Tensile Strength Test of Cylindrical & Cubical samples can be supplied at extra cost. This is accomplished by providing attachments which can be mounted on the Compression Testing Frame for Split Tensile Strength Test.

# RURAL CONNECTIVITY TRAINING AND RESEARCH CENTRE

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Website: [www.rctrcwestbengal.com](http://www.rctrcwestbengal.com)

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## Annexure - E

### Manufacturer's Authorization

#### Invitation for Bid No.:

To:.....

WHEREAS \_\_\_\_\_ who are official manufacturers of \_\_\_\_\_ having factories at \_\_\_\_\_ do hereby authorize \_\_\_\_\_ to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by us \_\_\_\_\_ and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm in reply to this Invitation for Bids.

Name \_\_\_\_\_

In the capacity of: \_\_\_\_\_

Signed \_\_\_\_\_

Duly authorized to sign the Authorization for and on behalf of \_\_\_\_\_

Date \_\_\_\_\_