

WEST BENGAL STATE RURAL DEVELOPMENT AGENCY
(AN AGENCY UNDER PANCHYAT & RURAL DEVELOPMENT DEPARTMENT, GOVT. OF WEST BENGAL)
 Joint Administrative Building, (6th Floor)
 Block-HC/7, Sector-III, Salt Lake City, Kolkata-700 106

**Detailed Notice Inviting Tender for Procurement of Different Lab Equipment for
 construction of Rural Roads in Different Districts of West Bengal
 (TWO COVER SYSTEM)**

e-NIT No.: 02/SRDA/N-1/2024-25/HQ

Memo No. 1890/WBSRDA/2E-77/2024

Date: 30.07.2024

1. For and on behalf of Governor of West Bengal, the Superintending Engineer, Department of Panchayats and Rural Development, Govt. of West Bengal (herein after referred to as “Purchaser”), invites- **online Item Rates Tender** for the following work of **Supply, Delivery and Installation of Equipment** under State Fund in **two cover systems**. Resourceful and Bona-fide contractors of Government/Semi Government/Undertaking/Autonomous Bodies/Statuary 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) 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, value of which is not less than Rs. 10.10 lakh.** 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

Sl. No.	Name of Work	Place of Supply	Earnest Money	Time allowed for Completion of work	Defect Liability Period
1	Supply, Delivery and Installation of Equipments at Office of Kalimpong Division WBSRDA	Office of the Executive Engineer, WBSRDA, Kalimpong Division, Central Laboratory, Branch Secretariat Building, Rinkingpong Road, Kalimpong, Pin - 734301	Rs. 50,500/-	3 months	12 months
2	Supply, Delivery and Installation of Equipments at Office of Jangipur Division WBSRDA	Office of the Executive Engineer, WBSRDA, Jangipur Division, Murshidabad, Zilla Parishad, Panchanantala, Berhampore, Murshidabad	Rs. 50,500/-	3 months	12 months

- Bidders may bid for one or more works. The bid evaluation and contract award shall be done on the basis of each work. The list of equipment to be supplied for each work is as per Annexure -F
- Intending bidders may download tender documents from e-procurement portal of our website: www.wbtenders.gov.in **from- 01/08/2024 17:00 Hours to 20/08/2024 (up to 16:00 Hours).** The pre-qualification bid documents duly filled and digitally signed in all respect may be submitted online before **17:00 hrs (as per server clock) on -20/08/2024**
- 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.**
- 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:

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://wb-tenders.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.

iv. If the L1 bidder 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 L1 bidder is uploaded to the e-Procurement portal by the tender inviting authority.

v. As soon as the L1 bidder is awarded the contract (AOC) and the same is processed electronically in the e-Procurement portal –

a) EMD of the L1 bidder 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 o. generated on successful entry in GRIPS with the E-Procurement portal for update.

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 **22/08/2024 at 17:00** 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.

13. L1 bidder to submit Rs. 5000 only (for Two Sets) for formal agreement cost at Executive Engineer office to execute the formal agreement.

15. Performance Security

- A. Within Fourteen (14) days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the Performance Security of 10 (Ten) percent of the Contract Price in Indian Rupees in two parts of 5% each. The Performance Security one part, 5% of Contract Price shall be valid until 28 days beyond the date of final delivery date of the equipment. The Performance Security another part, 5% of Contract Price shall be valid until 28 days beyond the date of the Supplier's warranty obligations (Defect Liability Period). The Performance Security shall be in the form of unconditional bank guarantee issued by any reputable local Bank of India, acceptable to the purchaser using Performance Security Form included in Annexure – E
- 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).

16. 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. 15.16 lakh** .
- B. The applicant in the same name and style as prime supplier should have successfully completed at least one contract of same type of work **value of which is not less than Rs. 10.10 lakh** within the last 5 years from the date of Publication of this NIT.
- C. Financial statements for the last 05 (Five) years (Audited if applicable).
- D. Income Tax return should be submitted for last 5 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 sub-contracting 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.

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.

To keep the Laboratory Testing Equipments in good condition during the next 12(Twelve) months after the satisfactory certificate issued by the Executive Engineer of concerned division 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	01/08/2024	17:00 Hrs.
2	Documents Download / Sale Start Date	From	01/08/2024	17:00 Hrs. (as per Server Clock)
3	Documents Download / Sale End Date	To	20/08/2024	16:00 Hrs. (as per Server Clock)
4	Bid Submission Start Date	From	01/08/2024	17:00Hrs. (as per Server Clock)
5	Bid Submission End Date	To	20/08/2024	17:00Hrs. (as per Server Clock)
6	Pre-Bid Meeting	On	09/08/2024	12.00 Hrs.
	Place of Pre-Bid Meeting	Office of the Superintending Engineer, MGNREGA Cell, Panchayats and Rural Development Department Government of West Bengal, Joint Administrative Building, Sector III, Salt Lake, Kolkata 700106		
7	Bid Opening Date (Technical)	On	22/08/2024	17:00 Hrs. (as per Server Clock)
8	Bid Opening Date (Financial)	After Evaluation of technical Bid		
9	Place of Opening Bid	Office of the Superintending Engineer, MGNREGA Cell, Panchayats and Rural Development Department Government of West Bengal, Joint Administrative Building, Sector III, Salt Lake, Kolkata 700106		
10	Officer Inviting Bid	Office of the Superintending Engineer, MGNREGA Cell, Panchayats and Rural Development Department Government of West Bengal, Joint Administrative Building, Sector III, Salt Lake, Kolkata 700106		
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.

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 **value of which is not less than Rs. 10.10 lakh** 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. 17.50 lac for each work should be provided as per format. (Format Attached as **annexure D**).
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.

- 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.
 - (iii) Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to the Employer.
- 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 labour 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) Upon Delivery to the Destination – Seventy Five (75) percent of the contract price of the equipment delivered to the destination as specified :-
Details of Documents to be furnished by the Supplier are:
 - (a) Three copies of the Suppliers invoice including original giving details of quantities supplied, unit price and total price;
 - (b) Supplier's delivery note duly signed by the Purchaser;
 - (c) Manufacturer's warranty certificate; and
 - (d) Certificate of Origin.
 - (iii) On Final Acceptance : Twenty Five (25) percent of the contract price of the equipments upon final acceptance of the equipments by the purchaser, upon presentation of supplier's invoice for payment, evidence of delivery and satisfactory performance of the equipments. The purchaser will issue to the supplier a certificate of Final Acceptance, after the delivery and installation of the Equipments.
- The period of validity of the warranty (Defect Liability Period) shall be twelve (12) months after the equipment have been delivered, installed (as the case may be) and accepted by purchaser. The

Supplier shall correct any defects covered by the Warranty within 30 days of being notified by the Purchaser of the occurrence of such defects

- **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. Drawings;
 - g. Bill of Quantities; and
 - h. Any other document listed in the Contract Data as forming part of the Contract.

Sd/-

**Superintending Engineer,
West Bengal State Rural Development Agency,
West Bengal**

Memo No. 1890/1(10)/WBSRDA/2E-77/2024

Date: 30.07.2024

Copy forwarded for kind information to: -

1. The Additional 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 Financial Advisor, Govt. of West Bengal, P&RD Dept
4. The Superintending Engineer, RRNMU North Bengal Circle / RRNMU Malda Circle
5. The Financial Controller, WBSRDA (HQ).
6. The Executive Engineer (HQ), P&RD Dept.
7. The PS to HMIC, P&RD Department
8. The Sr. PS to the Secretary, P&RD Department
9. MIS Cell of this Deptt. They are requested to upload this NIT in the Department's website
10. Office Notice Board.

Sd/-

**Superintending Engineer,
West Bengal State Rural Development Agency,
West Bengal**

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 with Construction of road from 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. The undersigned agrees to invest 30% of the contract price of works by cash during the implementation of the works.
6. The undersigned agrees to authorize the authority to seek references from the bankers of the undersigned.
7. We would deploy at site all necessary technical personnel for efficient contract management and supervision of works with a view to achieving best quality of works at site.
8. Any departure whatsoever in any form will be considered as breach of contract. In such situation the department at his liberty may withhold our payment till we rectify the defects or fulfill our contractual obligation. In this connection, Departmental decision will be final and binding.
9. The undersigned also certifies that neither we have abandoned any work awarded to us, nor any penal action was taken against us by any department. The undersigned also declares that we do not have any running litigation with any department.
10. 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.

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

(Code Number)

(Address)

NOTES:

- (i) The bank guarantee should contain the name, designation and code number of the officer (s) signing the guarantee.

The address, telephone number and other details of the Head Office of the Bank as well as of issuing Branch should be mentioned on the covering letter of issuing Branch.

Annexure - D**List of Equipments to be supplied for each work:-**

Sl No	Name of Equipments required for each Division	Specification	Quantity
1	IS Sieve set	Equipment for Grain Size Analysis 1) Sieves of Brass frame 20cm. dia. With sizes 5.6mm, 4.75, 4, 3.35, 2.8, 2.36, 2, 1.7, 1.6, 1.4, 1.18, 0.85, 0.71, 0.6, 0.5, 0.425, 0.355, 0.3, 0.25, 0.212, 0.18, 0.16, 0.15, 0.125, 0.106, 0.09, 0.08, 0.075, 0.63, 0.53, 0.45, 0.38 mm	1 set
		Equipment for Sieve Analysis of Aggregate 2) Sieve G.I. Frame 45cm dia. with sieve sizes of 25mm, 106, 100, 90, 80, 75, 63, 53, 50, 45, 40, 37.5, 31.5, 26.5, 25, 22.4, 20, 19, 16, 14, 13.2, 12.5, 11.2, 10, 9.5, 8.6, 8, 6.7, 6.3, 6, 5.0, 4.75mm.	1 set
		Equipment for Sieve Analysis of Aggregate 3) Sieve G.I. Frame 30 cm dia. with sieve sizes of 80, 75, 63, 53, 50, 45, 40, 37.5, 31.5, 26.5, 25, 22.4, 20, 19, 16, 14, 13.2, 12.5, 11.2, 10, 9.5, 8.6, 8, 6.7, 6.3, 6, 5.0, 4.75	1 set
2	Cube Mould (6 nos.)	1) Mould, Cast Iron, for 150mm Cube with ISI Certification Mark Detailed specification as per IS :14858/IS: 516	6 nos
		2) Mould, Cast Iron, for 100mm Cube with ISI Certification Mark, Detailed specification as per IS :14858 / IS: 516	6 nos
		3) Mould, Cast Iron, for 100mm Beam with ISI Certification Mark Detailed specification as per IS :14858 / IS: 516	6 nos
3	Penetrometer	Soil Cone Penetrometer, Digital Type :- Comprises stainless steel penetration cone 35mm long with smooth polished surface with an angle of 30°C and penetration test cup of 55 mm dia. x 40 mm deep and it is suitable for operation on 220V, 50 Hz, single phase AC Supply Detailed Specifications as per IS : 2720 Part-V	1 set
4	Casagrande Apparatus	Liquid Limit Device set :- Casagrande Liquid limit device Motorized suitable for operation on 220V, 50 Hz, single phase AC Supply, with Casagrande grooving tools Detailed Specifications as per IS : 2720 Part-V	1 set
5	Rapid Moisture Meter Box	Speedy moisture meter :- Speed moisture meter , range 0-25% (Gauge Div.: 0.5%) with digital weighing balances Detailed specification as per IS:2720 (part II)	1 set
6	Weight Machine		
	i) 500g capacity	Capacity 500g x 50g	1no.
	ii) 30kg Capacity	Capacity 30kg x 50g	1no.
7	Electric Oven	Laboratory Electric Oven, Digital Indicator Cum Controller with Safety Alarm, Range 50°C to 300°C. +/- 1°C with Air Circulating Fan, S.S. Inside, Size 600 X 600 X 600mm	1 no.
8	Thermometer	Digital Thermometer Digital Thermometer – range 50°C-280°C	1no.
9	Slump Cone Apparatus	Slump Cone Test Apparatus :- The mould having 20mm bottom dia. 10 mm top dia. and 30mm height, rod and base plate. Detailed specification as per IS : 7320	1 no.

Sl No	Name of Equipments required for each Division	Specification	Quantity
10	Compressive Testing Machine	Equipment for Compressive Strength of Cement determination :- 1)2000kN Compression Testing Machine, Electrically operated with three load gauges 2000kN, 1000kN, 500kN 2)Balances up to 1000g, Gauging trowel conforming to IS:10086 3)Vibration Machine specified speed of 1000 KN vibrations per min	1 set 1 no 1 no
11	A.I.V Apparatus	Aggregate Impact Value Test Apparatus :- Impact Testing Machine, Measuring Cylinder, 75mm ID x 50 mm H Detailed Specifications as per IS : 2386 Part-IV	1 set
12	Flakiness Index Test Apparatus	Flakiness Test of Aggregate :- 1)Thickness Gauge Constructed from heavy gauge sheet steel with ISI certification mark. Detailed Specifications as per IS : 2386 Part-I	1 no
13	Dynamic cone Penetrometer	DCP test Kit :- 8 kg weight dropping mass trough a height of 575 mm, Anvil with driving rod, Penetration rod with 60°, 20mm dia. Cone, Spanners, Tommy bar, bottle of adhesive Detailed specification as per ASTM D 6951-03	1 set
14	Rebound hammer	Rebound hammer :- Capable of measuring elastic properties of hardened concrete. Should be able to applying impact energy up to 2.027Nm.	1 no
15	Concrete Core Cutter Machine	Motorized Core Cutting/Core Drilling Machine with 101.6mm+/-0.5 diameter and 150mm diameter and arrangement for water supply.	1 no
16	Benkelman Beam	Benkelman beam :- Benkelman beam with analogue dial gauge 0.01X25mm travel Detailed specification as per IRC- 81	1 no
17	Measuring Tape	Fibreglass Measuring Tape - 30m/100ft	1 no
18	Leveling staff	4-metre, Leveling Staff, Folding Type Detailed specification as per IS 1779 (1961)	1no
19	Spirit level	Spirit level Detailed specification as per IS 5706 (1993)	1 no
20	CBR Testing Machine	Laboratory CBR Test Apparatus :- 1)Load frame of 50 kN capacity Detailed Specifications as per IS : 2720 Part-XVI 2)Mild Steel, Zinc Plated Mould, 150mm ID x 175mm height Detailed Specifications as per IS : 2720 Part-XVI 3) Mild Steel, Zinc Plated Perforated Base Plate Detailed Specifications as per IS : 2720 Part-XVI 4) Mild Steel Zinc Plated Extension Collar 150mm ID x 50mm high Detailed Specifications as per IS : 2720 Part-XVI 5)Space disc of 148mm dia. and 47.7 mm thickness Detailed Specifications as per IS : 2720 Part-XVI 6)Metal weight 2.5 kg., 147 mm dia. with 53.3mm dia. central hole Detailed Specifications as per IS : 2720 Part-XVI 7) Perforated Plate, 148mm dia. with adjustable stem and lock nut. Detailed Specifications as per IS : 2720 Part-XVI	1 no 6 nos 6 nos 6 nos 2 nos 4 nos 2 nos
21	Ductility testing Machine	Ductility Testing Machine :- Ductility Testing Machine with Digital Temp Indicator and Rate of travel 5cm/min&1 cm /min Detailed specification as per IS : 1208	1 set

Sl No	Name of Equipments required for each Division	Specification	Quantity
22	Softening point testing device	Ring and Ball Apparatus Two steel balls , two brass ring depth 6.4 ± 0.1 mm Inside dia. @ bottom 15.9 ± 0.1 mm Inside dia. @top 17.5 ± 0.1 mm Outside diameter 20.6 ± 0.1 mm and thermometer. Detailed specification as per IS:1205	1 set
23	Atterberg Device	Porcelain Evaporating Dish, Shrinkage Bath, Glass Cup, Min. Three Metal Prongs, Perspex Plain Plate Spatula, Glass Cylinder, 25 ml x 0.5 ml, Mercury Detailed specification As per IS : 2720 (Part 6)	1 set
24	Bump Indicator	Bump integrator (Automatic Road Unevenness Record) :- Towed 5th wheel device capable of indicate road roughness on cumulative basis in mm/km. Detailed specification as per C.R.R.I	1no
25	Vicats Apparatus	Equipment for Consistency of Cement determination :- Vicat mould split type with clamping ring, Glass base plate, initial and final needle, consistency plunger, Mild steel base plate and vicat mould split type with clamping ring Detailed specifications as per IS:2542 (part II)	1 set
26	Roadometer	Small wheel of known circumference to indicate distance travelled i) Through a digital meter	1 no
27	Bitumen extractor	Centrifuge Extractor :- Capacity 1.5kg - Electrically Operated ,Speed 0 rpm to 3600 rpm Detailed specification as per IS:2172	1 no
28	Sand Replacement Apparatus	Sand Pouring cylinder apparatus :- Sand Pouring Cylinder fitted with Conical Funnel and Shutter, capacity 3 litres, cylindrical calibration container 100 mm ID x 150 mm height and metal tray size 30 x 30 x 4 cm with 10 cm central hole Detailed specification as per IS : 2720 (part XXVIII)	1 set
29	Proctor Test (Standard)	Heavy Compaction Proctor Test Apparatus :- 1)Compaction mould made of mild steel having 150mm dia.127.3 mm height 2305 ml volume Detailed Specifications as per IS : 2720 Part-VIII	1 no
		2)Rammer 4.9 kg x 450 mm fall Detailed Specifications as per IS : 2720 Part-VIII	1 no.
30	Bitumen Flash Point test	Flash Point (Open) and Fire Point Test Apparatus :- Hot plate, 160 mm dia. Detailed specification as per IS:1209	1 set
31	Elongation Index Apparatus	Elongation Test of Aggregate :- 1) Length Gauge Constructed from steel, mounted on a hardwood base with ISI certification mark. Detailed Specifications as per IS : 2386 Part-I	1 no
32	Compaction Factor Apparatus	Compaction factor Test apparatus :- Compaction factor apparatus like Tamping rod of 16mm diameter and 60 cm long Hooper. Detailed specification as per IS:5515	1 set
33	3 m straight Edge and Metric wedge	Straight Edge and Metric Wedge 3 meter Straight Edge and Metric Wedge	1 no

Sl No	Name of Equipements required for each Division	Specification	Quantity
34	Electric balance	Electronic Balance Capacity 600gX 0.01g	1 no
		Capacity 300kg x 50g	1 no
		Capacity 10kg x 0.5g	1 no
		Capacity 5kg x 0.5g	1 no
		Capacity 3kg x 0.1g	1 no
		Capacity 220 g X 0.001 g	1 no
35	Auto level Machine	Auto level machine magnification 24X	1 no
36	Aluminum Container set	Sample Container 0.5ltr, 1 ltr, 2 ltr, 5ltr	1 set
37	Le Chatelier Flash	Used for the determination of specific gravity of hydraulic cement. Detailed specification as per IS:4031 (Part-11) : 1988	1 set
38	Pan and Cover for sieves	Pan and Cover for 20cm, 30 cm and 45cm dia. Sieves	1set
39	Sieve Shaker	Motorized Sieve shaker with Built-in Digital timer Power: 250/300 W (250 W at 220V, 60 Hz) and Dimensions (approx.): 548x787x850 mm Detailed specifications as per IS : 2720 Part-IV	1 no

Annexure - E**Manufacturer's Authorization**

Date: _____

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 _____

.....**END**.....