MAHARSHI DAYANAND UNIVERSITY, ROHTAK



(A State University established under Haryana Act No. XXV of 1975)

NAACAccredited (A⁺) Grade

University Institute of Engineering and Technology

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BIDDING DOCUMENT FOR PURCHASE OF LAB EQUIPMENTS FOR CIVIL ENGINEERING DEPARTMENT, UIET

PART-1: COMPLETE BIDDING DOCUMENT

NAME OF WORK: PURCHASE OF EQUIPMENTS FOR HIGHWAY ENGINEERING LAB, SOIL MECHANICS LAB, SURVEY LAB AND CONCRETE LAB FOR CIVIL ENGINEERING DEPARTMENT, UIET, M.D.UNIVERSITY, ROHTAK.

PRESS NOTICE

| | MAHARSHI DAYANAND UNIVERSITY, ROHTAK |
|--|--|
| | Notice Inviting Short Term E-Tender |
| Name of Work: | PURCHASE OF EQUIPMENTS FOR HIGHWAY ENGINEERING LAB, SOIL MECHANICS LAB, SURVEY LAB AND CONCRETE LAB FOR CIVIL ENGINEERING DEPARTMENT, UIET, M.D.UNIVERSITY, ROHTAK. |
| Estimated Cost: | Rs. 7.2 lacs |
| Earnest Money: | i) 2% of the Quoted Amount |
| | e-Tenders to be uploaded upto24.03.2022_at 05:00 P.M. |
| https://www ii) Cost of Bid online mode iii) Earnest M (https://eten iv) Willing bid online mode v) The inter (https://www which may amendment in newspape vi) The Bidder exempted fr effect as per | will be received only through e-tendering. For further details visit website <u>v.etenders.hry.nic.in</u> document is Rs.2000/- (non-refundable) which will be deposited through e from https://etenders.hry.nic.in oney (as mentioned above) will be deposited through online mode ders.hry.nic.in) ders shall have to pay Rs.1180/- as the e-Service/ Processing Fee through e (https://etenders.hry.nic.in) rested parties/bidders should visit the University website w.mdu.ac.in) or <u>https://etenders.hry.nic.in</u> regularly for corrigendum(s) be issued regarding extension of date, modification of eligibility or s in other terms & conditions etc., as corrigendum(s) will not be published ers. who is registered as MSME of Haryana State only for the same work are com payment of EMD but Bidder will have to submit an affidavit to this er Annexure-I available on the website of Department of Industries & Govt. of Haryana. |

DETAILED NOTICE INVITING SHORT TERM E-TENDER

E-Tender is invited for purchase of below mentioned item in single stage two cover systemi.e. request for Pre-Qualification/Technical Bid (online Bid under PQQ/Technical Envelope) and request for Commercial Bid (comprising of price bid proposal under online available commercial Envelope):

| Sr. No. | Name of work | EMD to be deposited | Tender Document Fee & E-Service | of Bid | Last Date & time of Bid |
|------------|---|-------------------------------|---|-----------------------------|-----------------------------|
| | | by bidder | Processing fee (non Refundable) | Preparation & Submission | Preparation & submission |
| 1. | PURCHASEOFEQUIPMENTS FORHIGHWAYENGINEERINGLAB,SOILMECHANICSLAB,SURVEYLABANDCONCRETELABfor Civil EngineeringDepartment,UIET as mentioned | 2% of the quoted Amount | Rs.2000/- for Tender/Bid Document Fee and Rs.1180/-for e-Service/ Processing fee | 16.03.2022 (06:00 PM) | 24.03.2022 (05:00 PM) |
| | in Annexure-I | | | | |

- 1. Any clarification regarding the detailed notice inviting tender can be sought from the Director(UIET) during office hours at **8059385333** or E-Mail: **dir.uiet@mdurohtak.ac.in**
- 2. Tender document is available on website <u>http://etenders.hry.nic.in</u> and <u>https://www.mdu.ac.in</u>
- 3. The Bidders would submit bid through e-Tendering only on the website <u>http://etenders.hry.nic.in</u>

Under the process, the Pre-qualification / Technical online bid application as well as online Price Bid shall be invited at single stage under two covers i.e.PQQ/Technical & Commercial Envelope. Eligibility and qualification of the Applicant will be first examined based on the details submitted online under first cover (PQQ or Technical) and with respect to eligibility and qualification criteria prescribed in this Tender document. The Price Bid under the second cover shall be opened for only those Applicants whose PQQ/Technical Applications are responsive to eligibility and qualifications requirements as per Tender documents. The tenderer should read the terms & conditions and specification in tender documents strictly before submission of e-tender. Tender documents can be downloaded/uploaded online on the Portal: http://etenders.hry.nic.in

- 1. The payment of Tender Document fee as well as EMD and e-Service/Processing Fee shall be made by eligible bidders through online mode only from <u>https://etenders.hry.nic.in</u>
- 2. The interested bidders will be mandatorily required to online sign-up (create user account) on the website https://www.etenders.hry.nic.in to be eligible to participate in the e-tender.
- 3. The Bidders can submit their tender documents (Online) as per the dates mentioned in the key dates: -

| | Key Dates | | | | | | | |
|-----|---------------|-------------------------------------|--------------------------|-------------------|--|--|--|--|
| Sr. | Department | Bidder's Stage | Start date & time of | Last date& | | | | |
| No. | Stage | | bid submission | time of bid | | | | |
| | | | | submission | | | | |
| 1 | | Tender Document Download and Bid | 16.03.2022 | 24.03.2022 | | | | |
| | | Preparation / Submission | (06:00 PM) | (05:00 PM) | | | | |
| 2 | Technical Bid | | | | | | | |
| | Opening | | 25.03.2022 at 11:00 A.M. | | | | | |
| 3 | Financial Bid | | | | | | | |
| | Opening | | After evaluation of th | ne Technical Bids | | | | |

Important Note:

- The Applicants/bidders have to complete 'Application / Bid Preparation & Submission' stage on scheduled time as mentioned above. If any Applicant / Bidder fails to complete his / her aforesaid stage in the stipulated online time schedule for this stage, his / her Application / Bid status will be considered as 'Application / Bid not submitted'.
- 2) Applicant / Bidder must confirm and check his/her bids even after completion of his/her all activities for e-bidding.
- 3) Applicant/Bidder can rework on his / her bids even after completion of 'Application/Bid Preparation & submission stage' (Application/Bidder Stage), subject to the condition that the rework must take place during the stipulated time frame of the Applicant/Bidder Stage.
- 4) In the first instance, the online payment details of tender document fee + e-Service Fee and EMD and PQQ/Technical Envelope shall be opened. After that the financial bid quoted against each of the item by the shortlisted bidder/agency wherever required shall be opened online and if the bidders want to participate, they are welcomed to participate during the process. The bidder has to submit onlineBids as per the dates mentioned in the scheduled/Key dates above.
- 5) The bids shall be submitted online in two separate envelopes: -

Envelope 1: Technical Bid

The bidders shall upload the required Eligibility & Technical Documents online in the Technical Bid.

Envelope 2: Commercial/Financial Bid

The bidders shall quote the prices in Price Bid format under Commercial/Financial Bid.

Conditions:-

- 1- The tenderer will keep in touch with the University Website for any change in the DNIT till the last date/revised last date of online invited tender and incorporate such changes in DNIT and the tender bids.
- 4. DNIT and prequalification criteria can be seen on the Haryana Govt. portal (<u>https://www.etenders.hry.nic.in</u>) or on the University website (<u>www.mdu.ac.in</u>) and for any clarification regarding the detailed notice inviting tender can be sought from the Director(UIET)) during office hours at **8059385333** or E-Mail: **dir.uiet@mdurohtak.ac.in**
- 2- Conditional tenders will not be entertained & are liable to be rejected.
- 3- In case the day of opening of tenders happens to be holiday, the tenders will be opened on the next working day. The time and place of opening of tenders and other conditions will remain unchanged.

- 4- The University reserve the right to reject any tender or all the tenders without assigning any reasons.
- 5- The societies shall produce an attested copy of the resolution of the Executive/Governing body for the issuance of tenders.
- 6- The Jurisdiction of court will be at Rohtak.
- 7- The tender of the bidder who does not satisfy the eligibility/qualification criteria in the bid documents are liable to be rejected summarily without assigning any reason and no claim whatsoever on this account will be considered.
- 8- The bid for the contract shall remain open for acceptance during the bid validity period to be reckoned from the last date of submission of the tender. If any bidder/tenders withdraws his bid/tender before the said period or makes any modification in the Terms and Conditions of the bid, during the fix validity period, the Earnest Money shall stand forfeited. Bids shall be valid for three months from the date of bid closing i.e. from last date of submission of EMD. In case the last day to accept the tender happens to be holiday, validity to accept tender will be the next working day.
- 9- Any work/order, here tendered, may be withdrawn from further processing at any stage at the discretion of the competent authority without assigning any reason.
- 10-The **Committee constituted by the CPC / VC** is competent to increase/decrease the quantity of items without any prior intimation. In case of decrease of quantity of items, the bidder shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of the work/order in full.
- 11-The University reserves the right to accept or reject or negotiate any of the tender or conditions/items without assigning any reason.
- 12-The Earnest Money (EMD) of the successful agency / firm shall be returned on completion of all the Tender process.
- 13-In case of any dispute relating to this contract, the matter shall be referred to the Arbitrator to be appointed by the Vice-Chancellor whose decision shall be binding on both the parties.
- 14-Rates should be carefully filled-up both in words and figures without any cutting, erasing or overwriting.
- 15- In case the firm / agency quoting the lowest rates declines to accept the offer, the Earnest Money (EMD) of such firm shall be forfeited and firm shall be blacklisted by the University for any kind of dealing in future.
- 16-Any other conditions as may be deemed appropriate shall be announced at the time of Opening of Tenders in the presence of Bidders.
- 17-The agency / firm shall also append the following declaration with the tender:-

DECLARATION

I/We (Name) of the firm______ do hereby solemnly affirm and declare that the facts stated in the Technical Bid are correct and true to the best of my / our knowledge and belief and nothing has been concealed therein. In case of any concealment or misrepresentation detected at any stage, I/We will be liable for legal action under Section 182 and Section 415 read with Section 417 and 420 of the Indian Penal Code as the case may be.

Place: _____

Dated:_____

(Signature of the Tenderer)

with full name and Address with seal & stamp Director(UIET)M.D. University, Rohtak

TERMS AND CONDITIONS GOVERNING THE TENDERS FOR THE SUPPLY

- Every e-tender shall be accompanied by the Earnest Money 2% of the quoted amount and Rs.2000/- as tender fee and Rs.1180/- the e-service fee should be deposited <u>through online</u> <u>mode only</u>.
- 2. The e-tender received without earnest money or after the due date shall not be entertained except with the special approval of the competent authorities.
- 3. The e-tenders shall be opened in the office of Director (UIET), M.D. University, Rohtak on 25.03.2022 at 11:00A.M. by the Purchase Committee. The quotes or their authorized representatives are allowed to attend the meeting of the Tender Opening Committee at their own costs.
- 4. The goods shall be supplied by the Supplier within the time limit specified in the supply order. In case, the material is not supplied within the delivery period, the supplier shall be liable to pay the University the compensation amount equivalent to 1% (one percent) of the cost of material each day or such other amount as the CPC/Asstt. Registrar (P&S) may decide till the supply remains incomplete, provided that the total amount of compensation shall not exceed 10% (ten percent) of the total amount of the cost of material supplied. Appeal against these orders shall, however, lie with the Vice-Chancellor, M.D. University, Rohtak whose decision shall be final.
- 5. The following charges and terms may be spelt out in your offer clearly: -

i. F.O.R shall be University Main Store, M.D.University, Rohtak.

ii. Rates of VAT/Excise Duty (in per cent), if any. Please note that the University does not issue Form 'C' or 'D'

iii. Payment terms.

iv. Delivery period.

v. Guarantee/Warranty period.

vi. After-sales service.

vii. Installation charges, if any.

viii. Validity period of the tender.

ix. Bank Draft charges, if any.

x. Misc. charges such as Packing & Forwarding charges, Insurance charges, etc., if any.

- 7. Only the firm(s) which has possessed the GST No. can quote their rates for required items.
- 8. HSN Code if applicable must be entered in the hard copy while quoting the rates.
- 9. All the charges including packing, forwarding and installation, taxes and other levies should be specified in the tender. if any extra charges not specified in the tender shall not be paid.
- 10. The EMD, tender fee etc. exemption be allowed for those MSMEs registered with Govt. of India (Ministry of Micro Small and Medium Enterprises)who are having manufacturing unit located in State of Haryana(as per Haryana State Public Procurement Policy for MSMEs 2016 vide G.O. No. 02/02/2016-41B11(1) dated 20/10/2016).
- 11. The quantity of material/supplies shall be subject to increase or decrease on the tendered rates. This increase or decrease shall be communicated by the University within 180 days of acceptance of the tender.
- 12. Supplies shall be made as per the schedule and within such time as is indicated in the supply order.
- 13. The rates accepted by the University shall be applicable up to 180 days and the supplier shall have to make supply during the period as and when required.

- 14. The University is situated within the Municipal Limits. As such, Octroi, if any, shall be payable. In case, the material is supplied through a Transport Company by road, the Transport Company's charges, labour charges and octroi charges shall be borne by the supplier. It may be mentioned specifically as to whether the material will be sent by rail or by road through a Transport Company.
- 15. Guarantee/warrantee of items must be mentioned.
- 16. The University is registered with the Department of Scientific & Industrial Research, Ministry of Science & Technology, New Delhi in terms of Govt. Notification No. 10/97-Central Excise dated 1 March, 1997 and Notification No. 51/96-Customs dated 23.7.1996 vide Registration No. TU/V/RG-CDE(244)/2020 dated September, 18,2020upto 31-08-2025. Thus the University is exempted from payment of Custom Duty and Excise Duty. The consignee shall issue necessary certificates duly countersigned by the Registrar, M.D. University, Rohtak to avail of exemption.
- 17. No tender documents will be issued separately and rates are to be offered on company's letter pad.
- 18. If a holiday occurs on the opening day, the tenders will be opened on the next working day.
- 19. The packing, forwarding, freight, insurance charges etc. may be quantified in terms of amount. These charges will not be payable against such vague statement as "<u>packing, forwarding, freight</u> <u>and insurance charges etc. extra</u>".
- 20. In case, the supplier/contractor fails to execute the supply order/contract on the rates, and terms and conditions as contained in the supply order within the stipulated period, they shall be liable to such action as blacklisting, debarring from having any business with this University, forfeiture of earnest money/security, besides any other action as may be deemed proper by the University.
- 21. As a general policy, the University tries to make 100% payment as early as possible after the receipt of the material subject to proper installation, wherever applicable, and satisfaction of the Inspection Committee. No advance payment or payment against documents negotiated through Bank shall be made.
- 22. The acceptance of the material shall be subject to satisfactory report of this Office's Inspection Committee/Technical Committee/Experts Committee.
- 23. The samples of the material, if necessary and possible, shall be supplied with the tender. The unapproved samples shall be collected on receipt of information failing which the same shall be dispatched by Goods Carrier on your risk with the condition of **"Freight to Pay"**. Samples **costing less than** Rs. 100.00 shall not be returned to the **quotees**. However, if the **quotees**wish to take the same back, it can be collected at their own cost within a period of one month, failing which the samples will be disposed off.
- 24. The acceptance of the tender shall rest with the Registrar who does not bind himself to accept the lowest tender and reserves the right to reject any or all items of tender without assigning any reason thereof. The Registrar also reserves the right to accept tender in part i.e. any item or any quantity and to reject it for the rest.
- 25. It may be certified that you have not been debarred/blacklisted for any reason/period by DGS&D, DS&D (Haryana) or any other Central/State Govt. Dept./University/PSU etc. If so, particulars of the same may be furnished. Concealment of facts shall not only lead to cancellation

of the supply order, but may also warrant legal action.

- 26. In case, any other information/clarification is required, the undersigned may be contacted at Telephone No. **8059385333** on any working day (Monday to Friday) during office hours (9 a.m. to 5.00 p.m.).
- 27. The Sub Committee reserves the right for negotiation thereafter if considered necessary.
- 28. The items be purchased from the firm(s) on the basis of quality and not merely on the lowest rates.
- 29. The rates should be quoted for required specifications. The technical specifications equipment's required must accompany the tender. The decision of the University will be final with regard equipment's to be purchased.
- 30. The tender should be submitted only if the material is readily available in your stock or can be supplied within 15 days after the order is placed.
- 31. The bidder should possess minimum 3 years' experience in direct supply, installation, testing and commissioning of similar equipment's / software's and support to the Govt. / PSU / reputed institutions. Proof of the direct dealership details i.e OEM Authorization letter / dealership certificate for supply along with prime customers contact details and photocopies of purchase orders and / or installation report, to whom the similar products have been supplied by the tender, is required to be submitted along with the technical bid.
- 32. Terms and conditions printed on tender/Invoice of the firm, if any, shall not be binding on the University, except those mentioned specifically on the supply order of MDU, Rohtak, and your acceptance of the order shall be construed as your agreement to all the terms and conditions contained in the order.
- 33. The acceptance of the tender shall rest with the undersigned who does not bind himself to accept the lowest tender and reserve the right to reject any or all items of tender without assigning any reason therefore. The undersigned also reserves the right to accept tender in part i.e any item or any quantity and to reject it for the rest.
- 34. EMD of unsuccessful bidders will be returned subsequently. No interest shall be paid on EMD.
- 35. The dispute, if any, shall be subject to the jurisdiction of Courts at Rohtak. Any other jurisdiction mentioned in the tender or invoices of the manufacturers/distributors/ dealers/suppliers etc. shall be invalid and shall have no legal sanctity.

Director(UIET)

TECHNICAL DOCUMENT

| Sr. No. | Description | Bidders | Response | Remarks |
|---------|---|----------|----------|---------|
| | | (Yes/No) | | |
| 1. | Copy of PAN Card / GST No. | | | |
| 2. | Copy of latest Income Tax Return along with last two years ITR certified by the Charted Accountant. (Total Three years ITR certified by Charted Accountant) | | | |
| 3. | List of institutions where the LAB EQUIPMENTS IN as mentioned in Annexure-I has been supplied, if any | | | |
| 4. | Name and address of the agency / bidder /manufacturer / supplier, etc. | | | |
| 5. | Name of Contact person of the agency / bidder / manufacturer / supplier with phone number and e-mail id | | | |
| 6. | The bidder should submit a proof of having an average turn-over of Rs.30 lac or above for during the last three years relating to manufacturing/supply of supply of LAB EQUIPMENTS as mentioned in the annexure -I. Proof to be duly certified by a registered Chartered Account is required | | | |
| 7 | Affidavit on non-judicial stamp paper duly attested by 1 st Class Magistrate to the effect that they have not been debarred / blacklisted by any State Government / Central Government / PSU Department in India / Public or Private Institute / Organization as Annexed-II . | | | |

ANNEXURE-I

| Sr. No. | Equipment Name | Quantity | Specifications | | | | |
|------------|---|----------|--|--|--|--|--|
| 110 | SPECIFICATIONS FOR HIGHWAY ENGINEERING LAB. | | | | | | |
| 1 | Riffle Sample Divider | 1 set | As Per IS: 1607-1960 | | | | |
| | | | Specification : | | | | |
| | | | The unit offered are supplied in a range of sizes from 7 mm to 75 mm | | | | |
| | | | Riffle sample divider is required for the rapid collection of true representative samples from aggregates, sand and fillers. Riffle Sample Divider consists of a metal box fitted with a series of chutes of equal width which discharge the material alternatively in opposite directions into separate pans. The chutes of the riffle are steep enough to allow rapid flow of the material. The sample divider is supplied with two containers and a sampling scoop. | | | | |
| 2 | STRIPPING | 1 | Specification: | | | | |
| | VALUE | | Material: Mild Steel and SS | | | | |
| | APPARATUS | | Automation Grade: Semi-Automatic | | | | |
| | | | Aggregate Size 1.0 mm to 75 micron | | | | |
| | | | Speed: 100 rpm | | | | |
| | | | Number of Bottle: 4 Bottle | | | | |
| | | | Voltage: 230 VAC | | | | |
| | | | Frequency: 50 Hz | | | | |
| | | | For determining stripping value of | | | | |
| | | | bituminous mixes having Aggregate size: 1.0 | | | | |
| | | | mm to 75 micron. | | | | |
| | | | A circular tray rotates in a vertical plane at a rate of approximately 100 R.P.M. by an electrical geared motor. 4 bottles of approximately 400 cc are mounted 0 on this circular tray at an angle of 90. To each other with their mouth towards center of the tray _P A time switch is provided. Suitable for operation on 230 V A.C. Single Phase. | | | | |

| 3 | CENTRIFUGE | 1 | ASTM D2172 AASHTO T-58, T-164 |
|---|------------|------------|---|
| | EXTRACTOR | | |
| | (MOTORISED | | Centrifuge Extractor, Electrical Operation, |
| |) | | Capacity 1500g, with a Dimmer stat for |
| | | | speed control from 2,400 to 3,600 rpm. |
| | | | Suitable for operation on 230 V, 50 Hz, |
| | | | Single Phase, A.C. supply. |
| | | | Used for the determination of bitumen |
| | | | percentage in bituminous mixtures. It |
| | | | consists of a removable, precision machined |
| | | | aluminum rotor bowl (accessory 1500 or |
| | | | 3000 g capacity), housed in a cylindrical |
| | | | aluminum box. The separate control panel |
| | | | incorporates an electronic card fitted with |
| | | | AC drive that automatically drives the |
| | | | bowl speed rotation ramp from 0 to 3600 |
| | | | R.P.M. as requested by Standards, with |
| | | | automatic fast stop bowl rotation at the |
| | | | end of the test. Supplied complete with |
| | | | speed regulator and digital display |
| | | | monitoring the frequency. Power supply: |
| | | | 230 V |
| 4 | BENKELMAN | 1 | AASHTO T 256 |
| | | 1 | Lightweight Aluminum construction, Ease of |
| | BEAM | | Transportation, Unique Telescopic Design |
| | | | Simplifying Field set up, Compact, Thereby reducing the amount of storagespace needed. |
| | | | Benkelman Beam utilizes the technique of using |
| | | | balanced beam in conjunction with a suitable vehicle |
| | | | to measure road flexure The improved Benkelman Beam is a convenient, accurate device for measuring |
| | | | the deflection of flexible pavements under moving |
| | | | wheel loads. Operating on a simple lever arm |
| | | | principle, the unit consists. Supplied with carrying case. |
| | SPEC | IFICATIONS | FOR GEOTECH ENGINEERING LAB. |
| | | | |

| 5 | HYDROMETER | 3 | Ac parts 2720 Part 4 |
|---|-----------------------------------|---|--|
| 5 | (SEDIMENTATION | 3 | As per IS 2720 Part 4 |
| | ANALYSIS) | | Andreasen Pipette Stand with andreasen pipette and sedimentation tube |
| | | | |
| | | | Plummet Balance-with graduated scale (0-100) and other standard assessming as par IS and |
| | | | standard accessories as per IS code |
| | | | Hydrometer Range: 0.995 to 1 |
| | | | High Speed Stirrer with baffle and dispersion cup with algorithm and a spectrum at 2201/ 50 Up. Single Phase |
| | | | electric motor, operation at 220V, 50 Hz, Single Phase. |
| | | | Glass stirring rod (6-8 mm dia.) – 2 Nos. Glass measuring rulinders (no. 04) – 1000 ml |
| | | | Glass measuring cylinders (no. 04) - 1000 ml The sum as a star as a 50 to - 200 °C (Division) |
| | | | Thermometer: range -50 to – 280 °C (Digital) Weighting Balance, to wrigh up to 0.001 g. |
| | | | • Weighing Balance -to weigh up to 0.001 g. |
| 6 | CONSOLIDATION | 1 | Loading Unit |
| | APPARATUS - | | Maximum capacity 20 kg/cm² |
| | THREE GANG - | | Consisting of a loading yoke connected to a lever |
| | ELECTRONIC | | arm with a counter balancing adjustment and |
| | _ | | having a lever ratio of 1:10. |
| | | | The whole assembly being mounted on a steel |
| | | | frame stand. |
| | | | Consolidation cell assembly |
| | | | Fixed ring type for testing 60 mm dia x 20 mm thick |
| | | | specimens |
| | | | Fixed ring for specimens 60 mm dia x 20 mm thick with a guide ring |
| | | | |
| | | | |
| | | | Bottom porous stone for 60 mm dia specimen Pressure pad - Perforated |
| | | | Channeled base with water inlet • Gasket • Flanged |
| | | | water jacket |
| | | | Set of weights to give a pressure of 10 kg/cm² on 60 mm |
| | | | specimen. |
| | | | Comprising as per following |
| | | | 7 off 0.05 kg/cm2, • 5 off 0.1 kg/cm2, • 6 off |
| | | | 0.2 kg/cm2, • 6 off 0.5 kg/cm2, • 5 off 1.0 |
| | | | kg/cm2. |
| | | | Water reservoir with plastic tube, T-connection and pinch |
| | | | cock |
| | | | Electronic System Comprises of LVDT Transducers, 3 - |
| | | | Channels live displacement indicator with data logging |
| | | | facility to PC of all three LVDTS readings with desired |
| 7 | | 1 | time interval. LVDT Stroke : $\pm 12 \text{ mm} \cdot$ |
| 7 | RELATIVE DENSITY | 1 | Suitable for operation on 220 V, 50 Hz, single phase, AC |
| | REF STANDARD IS: 2720 (PT XIV) | | supply. The equipment should be supply with the |
| | | | following |
| | | | Vibrating Table - 1 No |
| | | | Cylindrical Metal Unit Weight Mould, 3000ml |
| | | | capacity 1 No. |
| | | | Guide Sleeve with clamp assembly, 1 No. |
| | | | Surcharge base plate 1No |
| | | | Handle 2 Nos |
| | | | Surcharge Weight 1 No |
| | | | Cylindrical Metal Unit Weight Mould 15000 ml |
| | | | |

| | | | capacity 1 No. Guide Sleeve with clamp Assembly 1 No. Surcharge base plate, 1 No | | | |
|----|--|----------|--|--|--|--|
| | | | | | | |
| 8 | Weighing Balance | 1 | (Capacity 50 KG) | | | |
| 9 | Tray | 5 | | | | |
| | | SPECIFIC | ATIONS FOR SURYEY LAB. | | | |
| 10 | Ranging Rod | 10 Nos. | 2 mt. | | | |
| 11 | Ranging Rod | 10 Nos. | 3 mt. | | | |
| 12 | Wooden Pegs | 40 Nos. | | | | |
| 13 | Arrows | 40 Nos. | | | | |
| 14 | Plane Table Accessories | 8 Nos. | Alidade Box with all instruments | | | |
| 15 | Digital Theodolite | 3 Nos. | | | | |
| 16 | Signal & Station | 6 Nos. | | | | |
| | SPECIFICATIONS FOR CONCRETE LAB. | | | | | |
| 17 | Digital Weighing balance with platform scale | 1 | Capacity 500 kg | | | |
| 18 | Sieve Set | 1 | A set of IS Sieves of sizes – Set of coarse sieves 100mm, 80mm, 63mm, 50mm, 40mm,31.5mm, 25mm, 20mm, 16mm, 12.5mm, 10mm, 6.3mm,4.75mm, 3.35mm with lid and pan. | | | |
| | | | Set of fine sieves- 2.36mm, 1.75mm, 1.18mm, 600μm, 300μm, 150μm and 75μm with lid and pan | | | |

ANNEXURE-II

Undertaking (on Non Judicial stamp paper)

| This is to certify that M/s | _, address |
|---|--------------------|
| has not ever been debarred / black | listed from |
| any by any School / Board / University / Organization / Government Agency, et | c . for any |
| reason at any point of time and no legal case / proceedings is pending against th | e Agency |
| as on date. | |
| | |

Place: _____

Dated:_____

Signature of the Tenderer with full name and Address with seal & stamp