

**BID IDENTIFICATION NO. - QADHKD-04/2024-25 OF O/o  
THE SUPERINTENDING ENGINEER, QUALITY ASSURANCE DIVISION, HIRAKUD**

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**GOVERNMENT OF ODISHA  
WATER RESOURCES DEPARTMENT**

## **Bid Identification No-QADHKD-04/2024-25**

**NAME OF THE WORK: "Procurement of Flow Table, GSB Sieve, WMM Sieve, Vernier Caliper, Outside micrometer-Digital/Screw Gauge and Demountable Mechanical Strain Gauge" for Quality Assurance Division, Hirakud for the FY 2024-25"**

**TENDER COST: - Rs.99,690/-**

**OFFICE OF SUPERINTENDING ENGINEER,  
QUALITY ASSURANCE DIVISION,  
HIRAKUD**

OFFICE OF THE SUPERINTENDING ENGINEER  
QUALITY ASSURANCE DIVISION, HIRAKUD

Email: cro\_hrs@rocketmail.com

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Tender Call Notice No. QADHKD-04/2024-25

No.-

Date:

TENDER FOR SUPPLY OF EQUIPMENTS

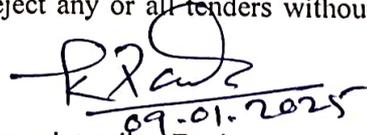
Sealed tenders are invited with 1 % EMD for supply as per following list from reputed equipment manufactures / authorized supplier / authorized Indian agents of foreign suppliers.

| Sl. No. | Brief Description of items                  | Quantity |
|---------|---|----------|
| 1       | Flow Table (Concrete)                       | 2Nos.    |
| 2       | GSB(26.5mm,19mm 13,2mm) Sieve               | 3Nos.    |
| 3       | WMM(53mm, 45mm, 22.4mm, 11.2mm) Sieve       | 4Nos.    |
| 4       | Vernier Caliper 200mm – Digital-Insize make | 2Nos.    |
| 5       | Outside Micrometer-Digital                  | 2Nos.    |
| 6       | Demountable Mechanical Strain Gauge         | 1No.     |

The tenders will be received by the Superintending Engineer, Quality Assurance Division, Hirakud, who is tender inviting authority from the manufactures / authorized supplier / authorized Indian agents of foreign suppliers up to 1 P.M. on dated 29.01.2025.

The details tender call notice along with tender documents is available in DOWR, Odisha website, [www.dowr.odisha.gov.in](http://www.dowr.odisha.gov.in) from 15.01.2025 to 29.01.2025 up to 1 P.M. Bidders who download the bidding documents from the web site will have to pay Rs.600/- (Rupees Six hundred) only towards the cost of tender paper in shape of demand draft issued from any scheduled / Nationalized Bank in favour of Superintending Engineer, Quality Assurance Division, Hirakud payable at SBI, Burla Branch, Burla and submit the draft in separate envelop marked as "Cost of Bidding Documents", failing which the tender shall be treated as non-responsive and shall be rejected. The authority will not be responsible, if any portion of the tender document is modified and in all cases this conditions stipulated in the original document kept in the office of the undersigned shall prevail. Bids must be delivered in the tender box having identification no. as QADHKD-04/2024-25.

The sealed tenders as mentioned in tender document will be accepted up to 1 P.M. on date 29.01.2025 and will be opened at 3 P.M. on date. 29.01.2025 at the office of the Superintending Engineer, Quality Assurance Division, Hirakud in presence of the tenderers or their authorized representatives. If the office happened to be closed on the date of receipt of bids as specified, the bids will be received and opened on the next working day at the same time and venue. Other details can be seen in the bidding documents. The authority reserves the right to reject any or all tenders without assigning any reason.

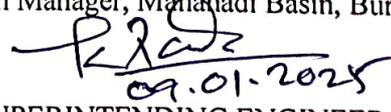
  
09.01.2025

Superintending Engineer  
Quality Assurance Division, Hirakud

Memo No.

/Date:

Copy submitted to the Engineer-in-Chief, Water Resources, Odisha, Bhubaneswar / Chief Engineer, Quality Assurance, Bhubaneswar/Chief Engineer & Basin Manager, Mahanadi Basin, Burla for favour of kind information and wide publication.

  
09.01.2025

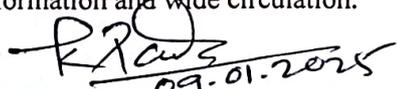
SUPERINTENDING ENGINEER

P.T.O

**Memo No.**

**/Date:**

Copy submitted to the Additional Chief Engineer, Quality Assurance Circle (West), Burla/  
Additional Chief Engineer, Canal Circle, Burla for favour of kind information and wide circulation.

  
09.01.2025  
SUPERINTENDING ENGINEER

**Memo No.**

**/Date:**

Copy submitted to the Deputy Director, MIS O/o. the E.I.C, W.R, Odisha, Bhubaneswar  
along with hard copy & soft copy (CD) of Tender/Quotation call Notice for information and necessary  
action. It is requested to hoist the Quotation Call Notice in DOWR Website  
([www.dowr.odisha.gov.in](http://www.dowr.odisha.gov.in)) on or before dt. 15.01.2025 & up to 29.01.2025(1 P.M.)

**Encl:** Soft copy & Hard copy of Tender Call Notice

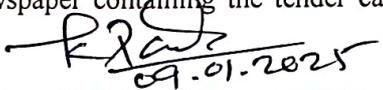
  
09.01.2025  
SUPERINTENDING ENGINEER

**Memo No.**

**/Date:**

Copy forwarded to the Deputy Director (Advertisement)-cum-Deputy Secretary to  
Government of Odisha, Information & Public Relation Department, Bhubaneswar with a request to  
get it published in two numbers of local odia newspapers on or before date 15.01.2025 for wide  
circulation of tender call notice. Complimentary copy of the newspaper containing the tender call  
notice may please be sent to this office for reference and record.

**Encl:** Soft copy & Hard copy of Tender Call Notice

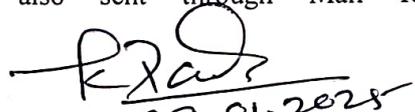
  
09.01.2025  
SUPERINTENDING ENGINEER

**Memo No.**

**/Date:**

Copy submitted to the Technical Head, State Portal Group, National Informatics Centre  
(N.I.C), Odisha Secretariat, Bhubaneswar with a request for posting of Tender Call Notice with  
Tender Document in Govt. website [www.tendersodisha.gov.in](http://www.tendersodisha.gov.in) by dt. 13.01.2025. The soft copy of the  
Tender Call Notice along with Tender Document also sent through Mail Id:  
[tendersorissa@gmail.com](mailto:tendersorissa@gmail.com).

**Encl:** Soft copy & Hard copy of Tender Call Notice

  
09.01.2025  
SUPERINTENDING ENGINEER

**Memo No:**

**Date:**

Copy submitted to the Technical Director & District Informatics Officer, Sambalpur for  
information and necessary action with a request to display the Tender Call Notice with Document in  
website <http://sambalpur.nic.in> by dt. 13.01.2025. The soft copy of the Tender Call Notice along with  
Tender Document also sent through Mail Id: [orisam@nic.in](mailto:orisam@nic.in).

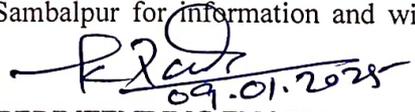
**Encl:** Soft copy & Hard copy of Tender Call Notice

  
09.01.2025  
SUPERINTENDING ENGINEER

**Memo No.**

**/Date:**

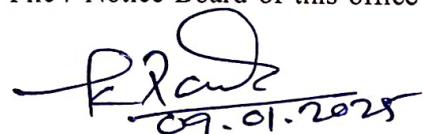
Copy forwarded to the Superintending Engineer, Main Dam Division, Burla / SE, Burla  
Irrigation Division, Burla/SE, Sambalpur Irrigation Division, Sambalpur for information and wide  
circulation.

  
09.01.2025  
SUPERINTENDING ENGINEER

**Memo No.**

**/Date:**

Copy to Divisional Accountant/AEEs/AE/JEs /Tender File / Notice Board of this office for  
information and wide Circulation.

  
09.01.2025  
SUPERINTENDING ENGINEER

**GOVT. OF ODISHA**  
**DEPARTMENT OF WATER RESOURCES**  
**O/O THE SUPERINTENDING ENGINEER, QUALITY ASSURANCE DIVISION,**  
**HIRAKUD.**

**BID IDENTIFICATION NO. QADHKD-04/2024-25**

|     |   |   |
|-----|---|---|
| 01. | Name of work  | Procurement of Flow Table, GSB Sieve, WMM Sieve, Vernier Caliper, Outside Micrometer-Digital/Screw Gauge and Demountable Mechanical Strain Gauge for Quality Assurance Division, Hirakud for the year 2024-25 |
| 02. | No. of works  | 1 No.   |
| 03. | Bid Identification No.  | QADHKD-04/2024-25   |
| 04. | Tender cost   | Rs 99,690.00 (Excluding GST)  |
| 05. | Bid security  | 1% of tender amount   |
| 06. | <b>Cost of Tender Paper</b>   | <b>Rs. 600/-</b>  |
| 07. | Period of procurement   | <b>15 Days</b>  |
| 08. | Date & time of availability of bid documents in the website <a href="http://www.dowrodisha.gov.in">http://www.dowrodisha.gov.in</a> | <b>From dt.15.01.2025 (10.00AM) to dt.29.01.2025 (1.00PM)</b>   |
| 09. | Time for receipt of bids in the specified Tender box in the o/o the Superintending Engineer, Quality Assurance Division, Hirakud.   | <b>Up to 1 P.M. of dt.29.01.2025</b>  |
| 10. | Date and time of Opening of Tender  | <b>Dt. 29.01.2025 at 3.00 PM</b>  |
| 11. | Name and Address of the Officer inviting Bid  | <b>Superintending Engineer, Quality Assurance Division, Hirakud, Odisha-768016</b>  |

Further details can be seen from the State Govt. website <http://www.dowr.odisha.gov.in>

  
09.01.2025

Superintending Engineer  
Quality Assurance Division, Hirakud

GOVERNMENT OF ODISHA  
DEPARTMENT OF WATER RESOURCES  
OFFICE OF THE SUPERINTENDING ENGINEER,  
QUALITY ASSURANCE DIVISION, HIRAKUD.

DETAIL TENDER CALL NOTICE  
BID IDENTIFICATION NO; QADHKD-04/24-25

The Superintending Engineer, Quality Assurance Division, Hirakud on behalf of the Governor of Odisha invites percentage rate bids / Quotations from the reputed manufacturers / authorized equipment suppliers/ Indian agents of foreign suppliers for the following items for the work "Procurement of Flow Table, GSB Sieve, WMM Sieve, Vernier Caliper, Outside Micrometer-Digital/Screw Gauge and Demountable Mechanical Strain Gauge for Quality Assurance Division, Hirakud for the year 2024-25" at a tender cost of Rs 99,690/- (Rupees Ninety-nine thousand six hundred ninety) only.

1. The Bid documents shall be available from official website of Department of Water Resources, Government of Odisha [http/ www.dowrodisha.gov.in](http://www.dowrodisha.gov.in) from 10 A.M. on dt.15.01.2025 to 1 P.M on dt.29.01.2025.
2. The Bid documents may be downloaded from the department as mentioned in sl No.1 web site against the payment of Rs. 600/- (Rupees Six hundred) only towards the non-refundable cost of tender document in shape of demand drafts, issued from any Scheduled Nationalized Bank drawn in favour of Superintending Engineer, Quality Assurance Division, Hirakud payable at SBI, Burla Branch, Burla having IFSC Code-SBIN0002034. The draft should be furnished in a separate cover mark as "Cost of Bid Document." failing which tender shall be treated as non-responsive and shall be rejected.
3. The Bid comprising of documents must be delivered in the tender box having identification no. as QADHKD-04/2024-25 in the specified tender box kept in the office of Superintending Engineer, Quality Assurance Division, Hirakud by the quotationers latest by 1 P.M on Dt. 29.01.2025

The bid is to be submitted with original demand drafts towards bid cost and pledged bid security, signed Detail Tender Call Notice(DTCN), self-attested copies of Registration Certificate of manufacturer/Authorized dealer(authorized dealership certificate should be attached) , PAN Card, GST No., ,GST any other relevant documents in lieu of equipment supplied in last 3 years to various organisations and other certificates as mentioned in DTCN duly filled in and any other documents required as per the relevant clauses of DTCN and special conditions if any and Bill of Quantities duly filled in and signed by the bidders/ quotationers. Bids can also be sent by Regd. Post along with relevant documents as mentioned above to reach this office on or before the stipulated time and date.

Signature of Quotationer

  
09.01.2025  
Superintending Engineer  
Quality Assurance Division, Hirakud

**OPENING OF BID DOCUMENTS-**

4. The tender will be opened by the tender inviting authority in his office chamber at 3 P.M. on dated 29.01.2025 in the presence of the bidders/quotationers or their duly authorized representatives if any who wish to attend. Original documents have to be produced during the opening of the bid for verification if required failing which bid shall be liable for rejection.
5. The bid security and bid cost will be retained in the Office of the tender inviting authority. And, the bid security of unsuccessful bidders will be refunded from the Office of the Superintending Engineer, Quality Assurance Division, Hirakud only after issuance of supply order for the said work.
6. Throughout these documents, the term 'Bid', 'Quotation' and 'Tender' and their derivatives (bidder / Tenderers /quotationers, bid / tender/quotation, bidding / tendering/ quotationing etc.) are synonymous.
7. If one quotationer submits more than one quotation for a particular bid in the DTCN, then all his / her bids for that work will be rejected.

**EARNEST MONEY DEPOSIT / BID SECURITY-**

8. The bid must be accompanied with the original copies of financial instruments towards bid security of 1% of the tender amount. This bid security should be in the shape of N.S.C. / Post Office Saving Bank account / Post Office Time Deposit account / Kisan Vikas Patra / Bank Guarantee of any Schedule Nationalized Bank only duly pledged in favour of Superintending Engineer, Quality Assurance Division, Hirakud payable at SBI, Burla Branch, Burla, as per the terms and condition laid down in O.G.F.R and in no other form. The bid security so deposited by the participating manufacturers / authorized dealers should exhibit evidence to the effect that the bid security amount belongs to the firm / company. Tenders received without bid security in original as specified above shall be summarily rejected. Request for transfer of bid security from any other work to the tendered work will not be entertained.

**The quotationer should furnish the followings for considering the quotation-**

9. a) Required Bid document cost, bid security(EMD), GST / PAN / Small Retailers Identification No.(SRIN) clearance etc. including related documents should be submitted with the quotation in appropriate form failing which bid will be summarily rejected.
- b) The participants have to submit the documentary evidence in support of their Manufacturing License /Import License / authorized dealership certificate from manufacturing company / Manufacturer status etc. along with the quotation.
- c) Experience in the similar and identical work may be submitted with supporting supply order copies and performance certificate.
10. The document submitted along with the quotation will be verified in originals on same day of opening of bid.
11. Bidder should provide details specification, international standard (BIS/International) categories, list of users and technical details, Technical Compliance sheet etc along with operating parameters, pre installation requirements, payment terms , warranty, document if any to establish the organization of the manufacturing unit in respect of ISO,ISI or equivalent.
12. The quotation should contain the price quotation clearly mentioning the rates per unit in figure and words in neat. In case of any variation between the rates in figure and the words, the rates in word will be taken into consideration.

Signature of Quotationer

  
09.01.2025  
Superintending Engineer  
Quality Assurance Division, Hirakud

13. Similarly, the price of annual maintenance charges for next five years after the expiry of warranty of each item shall be quoted separately in price bid by the supplier.
14. The rates of each item shall be quoted as per the prescribed rate schedule format with GST separately, including cost of packing and forwarding in inland transport towards insurance and incidental charges if any, with total cost as per the item at acquired destination.
15. The valid period of the quotation shall be 90 (Ninety) days from the date of opening of the bid.
16. The supplier shall have to furnish certificate along with the tender to the effect that he is not related to any officer in the rank of an Asst. Engineer and above in the Water Resources Department, Govt. of odisha if the fact subsequently proved to be false the supply order will be rescinded. The total bid security will be forfeited and shall be liable to make good and loss or damage resulting from such cancellation.
17. When in response to the notice calling for tenders, only a single tender is received in the first time, the tender shall be cancelled without opening of the Bid and fresh tender shall be invited with publicity. If single tender is received, even after retendering then the approval of the next higher authority should be obtained, if the tender is otherwise in order and applicable.
18. An affidavit shall be furnished by the agency at the time of submission of tender paper about the authentication of the tender documents.
19. The rate should be inclusive of charges of calibration of the equipment from NABL accredited calibration Laboratory.
20. Additional Performance Security shall be furnished by the bidder when the bid amount is less than the estimated cost put to tender. In such an event, only the successful bidder who has quoted less bid price/rate than the estimated cost put to tender shall have to furnish certain percentage of the amount of differential cost i.e. estimated cost put to tender minus the quoted amount (as per the table below) an Additional Performance Security in shape of Term Deposit Receipt pledged in favour of Superintending Engineer, Quality Assurance Division, Hirakud from any Nationalized/Scheduled Bank in India within seven days of issue of Letter of Acceptance(LoA) to the successful bidder otherwise the bid of successful bidder shall be cancelled and the EMD shall be forfeited.

The detailed of Additional Performance Security to be furnished by the successful bidder as per office Memorandum No.4559/WE dated-05.04.2021 of Works Department is as follows.

| Sl. No. | Range of Difference between the estimated cost put to tender and Bid amount | Additional Performance Security to be deposited by the successful bidder |
|---------|---|--|
| i.      | Below 5%  | No Additional Performance Security                                       |
| ii.     | From 5% and above and below 10%   | 50% of (Difference between estimated cost put to tender and Bid Amount)  |
| iii.    | From 10% and above  | 150% of (Difference between estimated cost put to tender and Bid Amount) |

Signature of Quotationer

  
09.01.2024  
Superintending Engineer  
Quality Assurance Division, Hirakud

**Terms & Conditions**

1. The supply of this assignment should be completed in all respect within 30 days from the issue of the supply order.
2. The materials should be delivered at the Laboratory in the office premises of the Superintending Engineer, Quality Assurance Division, Hirakud in full & good condition and should be commissioned and tested in said laboratory regarding satisfactory performance, imparting training to the lab- staff regarding operation and running of maintenance and should be handed over in complete shape under intimation to consignee.
3. Insurance coverage to the materials for transit and coverage of insurance to labour components etc. is at the risk, responsibility and cost to the effect will be borne by the agency assigned with the work. The material if found unsuitable or beyond specification should be replaced by the agency at his / their own cost within 7(seven) days from the date of intimation to that effect by the Engineer-in-charge.
4. **The firm assigned with the work shall give warranty for a period of minimum one year from the date of supply/installation of the equipments.**
5. The bid security of the unsuccessful participant shall be refunded within seven days from the finalization of the selection process and the bid security of the selected agency / firm will be retained and will be refunded immediately on receipt of the completion report from the Engineer-in-charge.
6. An amount @ 5% as security of the bill in gross will be deducted and retained as performance security till one year from the date of satisfactory completion (i.e. on completion of warranty period) and other taxes as per prevailing govt. order of Odisha will be deducted from the bill amount while making the payment.
7. The Equipments /Instrument shall be calibrated from NABL accredited Laboratory to maintain traceability after commissioning of the equipment in the Laboratory of Quality Assurance Division, Hirakud.
8. Bidders have to quote for all the items as per BOQ of the tender document, incomplete quotation shall be rejected.
9. The Bidder should be original Equipment's Manufacture/direct importer of original equipment manufacturer / Authorized Supplier. The Bidder should provide relevant supporting certificate of authorization of the manufacture in this regard. **(Annexure-I).**
10. The machine should be commissioned by the agency in the laboratory at Hirakud and the lab staff should be properly trained for operation of the equipments till satisfaction of the Engineer-in Charge.
11. Consignee:-Superintending Engineer, Quality Assurance Division, Hirakud, Dist. Sambalpur.
12. The Superintending Engineer, Quality Assurance Division, Hirakud or his authorized Assistant Executive Engineer or his Authorized Assistant Engineer in charge of the work is the consignee for all purpose and the payment will be made by the Superintending Engineer, Quality Assurance Division, Hirakud The Bills in triplicate along with the copies of the document in support of payment of all taxes, statutory dues of state government or central government etc. Completion Certificates, test certificates of materials, BIS certificates if any, in three sets should be submitted to the paying authority for release of the payment within seven days. No partial payment will be made for part supply.

Signature of Quotationer

  
09.01.2025  
Superintending Engineer  
Quality Assurance Division, Hirakud

13. Non-completion of the work within the stipulated period will carry penalty @0.5% of the value of the work not executed per day subject to maximum 10% of the value of the supply order towards delay. After completion of the stipulated period, the work order stands cancelled automatically and the bid security will be forfeited and taken into government account. If there is genuine reasons for delay, the same should be brought to notice of the Superintending Engineer immediately on occurrence for allowing reasonable time with or without fine by competent authority after due verification of the facts.
14. The payment will be made in full deducting security deposits and other taxes as applicable only after supplying, commissioning, calibration and testing.
15. The Purchaser will send notification to the successful bidder along with the contract form provided in the bidding document incorporating all terms and conditions of the agreement between the bidder and the purchaser. The bidder shall sign the contract with date and return to the purchaser within 30 days of such notification. **(Annexure-II)**
16. The contract shall be interpreted in accordance with the laws applicable on India and subject to the jurisdiction of district Sambalpur, Odisha.
17. All Manufacturer / Agents must furnished the compliance statement in the format as given below along with the bid document.

**FORMAT FOR COMPLIANCE STATEMENT**

| Specification of Quality Assurance Division, Hiarkud (Purchaser) | Specification of the equipment offered by the Manufacturer (Bidder) | Compliance to the Technical Specification to the Quality Assurance Division, (YES / NO ) | Details of deviation if any, as per specification of Quality Assurance Division |
|--|---|--|---|
| 1  | 2   | 3  | 4   |

The undersigned reserves the right to reject any or, all the quotation or, increase the scope of work without assigning any reason thereof.

Signature of Quotationer

  
09-01-2025  
Superintending Engineer  
Quality Assurance Division, Hirakud

MANUFACTURES' AUTHORISATION FORM

No. \_\_\_\_\_/

Date \_\_\_\_\_/

To

The Superintending Engineer,  
Quality Assurance Division, Hiarkud

Dear Sir,

Bid No. \_\_\_\_\_ We \_\_\_\_\_ who are  
established \_\_\_\_\_ and \_\_\_\_\_ reputable \_\_\_\_\_ manufacturers \_\_\_\_\_ of  
\_\_\_\_\_ having \_\_\_\_\_ factories \_\_\_\_\_ at  
\_\_\_\_\_ (Address of  
Factory) to thereby authorize M/s. \_\_\_\_\_ (Name and address  
of Agent) to submit a bid and sign the contract with you against the above bid.

\* No company or firm or individual other than M/s. \_\_\_\_\_ are  
authorized to bid and conclude the contract in regard to this business against this specific invitation  
for Bid.

We hereby extend our full guaranty and warranty as per general conditions of contract for the goods  
and services offered by the above firm against this bid.

Yours faithfully,

(Signature for and on behalf of Manufacturers)

Note: This letter of authority should be on the letter head of the manufacturer and should be signed by  
a person, competent and having the power of attorney to bind the manufacturer. It should be included  
by the Bidders in its bid.

- This para should be deleted for simple items where manufacturers sell the product through different stockiest.
- The Supplier/Managing Director of the Company (if the supplier is a Company) or the

Power of Attorney Holder having specific power to sign the contract can only sign the  
contract/execute the agreement.

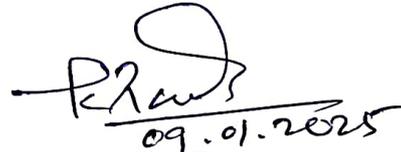
Signature of the Quotationer.

  
 \_\_\_\_\_  
 09.01.2025  
 Superintending Engineer  
 Quality Assurance Division, Hirakud

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. Maintenance Services shall consist of Preventive and Corrective maintenance of equipment specified above & will include repair and replacement of parts free of cost within the warranty period.
2. Preventive maintenance, quarterly once, which includes: Check-up to ensure that device connection is proper; cabling is at proper condition etc. Cleaning of the above equipment & checking the System Performance.
3. The Supplier is to furnish the tentative schedule of the preventive maintenance of Warranty Maintenance Contract (WMC) to be carried out.
- 4 The parts replaced must be new parts or equivalent in performance to new parts.
5. The Supplier will also provide the same maintenance service in case of the movement of equipment from the place of original installation to a different place or location, if the equipment is shifted by the Purchaser to another place or location at the cost and risk of the purchaser.
6. Any complaint informed through telephone must be acknowledged with a Complaint No. by the Supplier which will be noted by Consignee. All further contact with the Supplier on such complaint will be initiated through that Complaint No. Once rectification done that No. will be cancelled by both parties. A register is to be maintained by the Supplier where complaints are to be noted along with Complaint No.
7. The maintenance shall normally be done during 11.00 AM to 4.00 PM. However, in case of emergency, maintenance may have to be done beyond office hours and even on holidays. Prior arrangement through proper communication should be worked out in all such cases by the Supplier & the Consignee.
8. The Service Engineer of the Supplier will be allowed to handle the respective equipment only in presence of the officer in charge at the Consignee site.
9. The Supplier should ensure that maintenance job is not hampered/ delayed due to paucity of spares/inadequate manpower etc.
10. The Supplier should submit the services call report, to the Consignee for each and every service call without fail.

Signature of Quotationer



Superintending Engineer  
Quality Assurance Division, Hirakud

### Technical Specification

1. **Flow Table (Concrete):** It is a mild steel base plate, made from a flat steel plate (3mm thick), with a plan area of at least 900 mm X 900 mm on which concrete can be placed. The plate will have a flat, smooth surface. The construction of the plate will be stout enough to prevent distortion and deviation from flatness will be less than 3mm at any point when a straight edge is placed between opposite sides and corners. The center of the plate will be scribed with a cross, the lines of which run parallel to the edges of the plate and with circles of  $210 \pm 1$  mm diameter and  $500 \pm 1$  mm diameter having their centers coincident with the center point of the plate. All lines will be of maximum of 2.0 mm wide and 1.00mm deep.
2. **Granular Sub-base (GSB) Sieve (26.5mm, 19mm, 13.2mm):**
  - i) **Course Sieve-45 cm dia-G.I. - 26.50 mm**
    - Coarse Sieve- 45 cm dia
    - Test Sieve MOC-G.I
    - Test Sieve Size- 26.50 mm
  - ii) **Course Sieve-45 cm dia-G.I. - 19.00 mm**
    - Coarse Sieve- 45 cm dia
    - Test Sieve MOC-G.I
    - Test Sieve Size- 19.00 mm
  - iii) **Course Sieve-45 cm dia-G.I. - 13.20 mm**
    - Coarse Sieve- 45 cm dia
    - Test Sieve MOC-G.I
    - Test Sieve Size- 13.20 mm
3. **Wet Mix Macadam (WMM) Sieve (53mm, 45mm, 22.4mm, 11.2 mm):**
  - i) **Course Sieve-45 cm dia-G.I. - 53.00 mm**
    - Coarse Sieve- 45 cm dia
    - Test Sieve MOC-G.I
    - Test Sieve Size- 53.00 mm
  - ii) **Course Sieve-45 cm dia-G.I. - 45.00 mm**
    - Coarse Sieve- 45 cm dia
    - Test Sieve MOC-G.I
    - Test Sieve Size- 45.00 mm
  - iii) **Course Sieve-45 cm dia-G.I. - 22.40 mm**
    - Coarse Sieve- 45 cm dia
    - Test Sieve MOC-G.I
    - Test Sieve Size- 22.40 mm
  - iv) **Course Sieve-45 cm dia-G.I. - 11.20 mm**
    - Coarse Sieve- 45 cm dia
    - Test Sieve MOC-G.I
    - Test Sieve Size- 11.20 mm
4. **Vernier Calliper 200mm-Digital-Insize Make:** A vernier calliper is defined as a measuring device that is used for the measurement of liner dimensions. It is also used for the measurement of diameters of round objects with the help of the measuring jaws.

#### Specification:-

Type of Product: Digital Calliper

Measuring Range (mm): 0-200 mm

Resolution (mm): 0.01 mm

Measuring Range (Inch): 0-8 inch

Resolution (Inch): 0.0005 Inch

Accuracy:  $\pm 0.03$  mm

Material: Stainless Steel

5. **Outside Micrometer-Digital/Screw Gauge:** A screw gauge is a tool used to measure the Dimensions of small objects, such as the thickness of a metal sheet or the diameter of a thin wire.

**Specification:-**

Range (mm): 0-25 mm

Resolution (mm): 0.001mm

Range (Inch): 0-1 Inch

Resolution (inch): 0.00005 Inch

Anvil Type: Spherical anvil

Power Supply: Battery CR2032

Includes: Product Catalog

Material: Stainless Steel

Length (mm): 31.5 mm

Accuracy:  $\pm 2 \mu\text{m}$

Breadth (mm): 23 mm

6. **Demountable Mechanical Strain Gauge:** This instrument consists of a mechanical strain gauge, a reference bar, a set of stainless steel locating pins & packed in strong polished wooden carrying case. It is used in for measurement of strain in concrete structure, rock strata. Gauge length 200mm. Complete with dial gauge 0.002 mm X 5 mm travel.

Signature of Quotationer

  
09.01.2025  
Superintending Engineer  
Quality Assurance Division, Hirakud

**Bill of Quantity**

**Name of work:** "Procurement of Flow Table, GSB Sieve, WMM Sieve, Vernier Caliper, Outside micrometer-Digital/Screw Gauge and Demountable Mechanical Strain Gauge" for Quality Assurance Division, Hirakud for the FY 2024-25"

| Item No | Name of Item                               | Unit | Quantity | Rate (in Rs.) | Amount (in Rs.) | Remarks |
|---------|--|------|----------|---------------|-----------------|---------|
| 1       | Flow Table(Concrete)-900X900 mm.           | No.  | 2        | 19,200.00     | 38400.00        |         |
| 2       | GSB (26.5 mm, 19 mm, 13.2mm) Sieve.        | No.  | 3        | 1950.00       | 5850.00         |         |
| 3       | WMM (53 mm, 45 mm, 22.4 mm, 11.2 mm) Sieve | No.  | 4        | 1950.00       | 7800.00         |         |
| 4       | Vernier Caliper 200mm-Digital-Insize Make  | No.  | 2        | 4870.00       | 9740.00         |         |
| 5       | Outside Micrometer-Digital/Screw Gauge     | No.  | 2        | 6770.00       | 13540.00        |         |
| 6       | Demountable Mechanical Strain Gauge        | No   | 1        | 24360.00      | 24360.00        |         |
|         |  |      |          | Total=        | 99690.00        |         |

Total Items =6 Nos.

Total Amount = Rs.99,690/- (Rupees Ninety-nine thousand six hundred ninety ) only

Percentage Rate quoted by the Contractor/Supplier/Agency (i) Excess \_\_\_\_ % (in words) \_\_\_\_\_ (ii) Less \_\_\_\_ %( in words) \_\_\_\_\_

**Note:** The Contractor/Supplier/Agency will write Percentage excess or less up to one decimal point only, if he writes the percentage excess or less up to two decimal point, the first decimal point shall be considered without rounding off.

Signature of Quotationers

  
09.01.2025  
Superintending Engineer  
Quality Assurance Division, Hirakud