
	INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036 Telephone: [044] 2257 9798/9723 E-mail: tender@imail.iitm.ac.in	
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The Senior Manager (Project Purchase)

Ref : CIE/SURE/051/2019

Date: 03.12.2019

Open Tender No: CIE/SURE/051/2019

Due Date: 24th December 2019, 3 PM

Pre-Bid meeting: - NA

Technical Bid opening meeting on 24th December 2019, 4:00 PM at Department of Civil Engineering, IIT-Madras.

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of **“GYRATORY COMPACTOR FOR CONCRETE”** conforming to the specifications given in Annexure I.

Instructions to the Bidder

- I. Preparation of Bids:** - The tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.
- II. Delivery of the tender:** - The tender shall be sent to the address mentioned below, either by post or by courier so as to reach our office before the due date and time specified in our schedule. The offer/bid can also be dropped in the tender box on or before the due date and time specified in the schedule.

The tender box is kept in the office of the:

**The Senior Manager,
Project Purchase,
IC & SR Building, 2nd floor,
I.I.T. Madras,
Chennai – 600 036.**
- III. Opening of the tender:** - The offer/bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and will be examined by a technical committee which will decide the suitability of the bids as per our specifications and requirements. All bidders will be invited for opening of the technical bids. For opening the financial bid, only technically qualified bidders will be called.
- IV. Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to the **Department of Civil Engineering**. The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. Kindly note that IIT Madras is eligible for concessional GST and relevant certificate will be issued.

In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on EX WORKS and CIP basis (stating the Cost, Insurance, Freight separately) and indicating the mode of shipment.

- V. **Agency Commission:** - Agency commission, if any, will be paid to the Indian agents in rupees after receipt of the equipment and its satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in the tender document even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The Foreign Principal should indicate the percentage of payment and it should be included in the basic price quoted originally (if any)..
- VI. **Terms of Delivery:** - The item should be supplied to the **Department of Civil Engineering, IIT Madras** as per the Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- VII. **Technical Bid Opening:** The technical bid will be opened on **24th December 2019, 4 PM** at the **Department of Civil Engineering, IIT-Madras**. The financial bids of those tenderers who are technically qualified will be opened at a later date under intimation to them.
- VIII. **IIT Madras** reserves the full right to accept / reject any tender at any stage without assigning any reason.

Yours sincerely,

The Senior Manager (Project Purchase)
IC&SR Building, I.I.T. Madras,
Chennai – 600 036.

SCHEDULE

Important Conditions of the tender

1. The due date for the submission of the tender is **24.12.2019, 3 PM.**

The offers / bids should be submitted under two bid system (i.e.) Technical bid and financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Open Tender for supply of “**GYRATORY COMPACTOR FOR CONCRETE**” should be written on the left side of the Outer bigger cover and sealed.

2. **EMD: - The EMD (Should be in INR) in the form of Account Payee Demand Draft/Fixed Deposit Receipt/ Banker’s Cheque or Bank Guarantee for 2% of the quoted value of the item; drawn in favor of The Registrar-IIT Madras, payable at Chennai should be enclosed in the cover containing financial bid.** Any offer not accompanied with the EMD shall be rejected summarily as non-responsive.

The EMD of the unsuccessful bidders shall be returned within 30 days of the end of the bid validity period. The same shall be forfeited, if the tenderers withdraw their offer after the opening during the bid validity period. The Institute shall not be liable for payment of any interest on EMD. EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME).

When a foreign vendor does not have a local agent in India, he can submit a demand draft equal to 2% or wire transfer the amount to our account as detailed in the attachment (Annexure II) and enclose the proof with the financial bid.

3. **Performance Security: -** The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply. The Performance Security may be furnished in the form of an Account Payee DD, FD Receipt from the commercial bank, Bank Guarantee from any nationalized bank in India. **The performance security should be furnished within 21 days from the delivery of the purchase order.**

Performance Security in the form of Bank Guarantee:- In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed through the Beneficiary Bank to the end user bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee from a Nationalized Bank of India.

The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.

4. **Indian agent:** If an Indian agent is involved, the following documents must be enclosed:
Foreign principal’s proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.

- ✓ Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.

5. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
6. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid.

7. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
8. **Validity:** The validity of Quotation should not be less than 90 days from the due date of tender.
9. **Delivery Schedule:** - The tenderer should indicate clearly the time required for delivery of the item (subjected to the executive committee-IIT Madras approval). In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied. If there is delay, the penalty will be @1% per week of delay subject to a max of 10% of the value of purchase order and if the delay is more than accepted time frame by IITM, the PO would be cancelled and liquidated damages will be enforced.
10. **Risk Purchase Clause:-** In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
11. **Payment:-**
 - (i) No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
 - (ii) **Advance Payment:** No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor has to submit a Bank Guarantee equal to the amount of advance payment and it should be routed through the Beneficiary Bank to the end user Bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee through a Nationalized Bank of India.
12. **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within number of days (as prescribed by PI) from the date of receipt of the item at site of IIT Madras
13. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately (For more details please refer our Technical Specifications).
14. **Late offer:** - The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
15. **Acceptance and Rejection:** - I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
16. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**

17. **Disputes and Jurisdiction:**

Settlement of Disputes: Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate an arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai.

- a. **The Applicable Law:** This Purchase Order shall be construed, Interpreted and governed by the Laws of India, Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
- b. Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.

18. All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

Acknowledgement: - It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

**SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE
COMPANY WITH DATE**

Department of Civil Engineering
Technical Specifications for Gyrotory Compactor for Concrete

General Specifications

The Gyrotory Compactor must be capable of compacting zero-slump cement concrete mixes such as Roller Compacted Concrete, Dry Lean Concrete, and Concrete Paver Blocks. The compactor must be capable of measuring the real time torque (torque resistance) during the compaction process.

(i) Technical Requirements for Gyrotory Compactor

- 1) The compactor must be fully electromechanical in working.
- 2) The compactor must be capable of compacting cylindrical concrete specimens of diameter 100 mm (minimum) and height 200 mm with an accuracy of 0.1 mm.
- 3) The compactor must be capable of generating a vertical pressure in the range between 25 to 2200 kPa.
- 4) The compactor must be capable of compacting concrete specimens with varied number of gyrations in the range of 1 - 9999.
- 5) The angle of gyration must be changeable between 0° - 3° with a sensitivity of ± 0.01 .
- 6) The compactor must be capable of varying the gyration speed in the range of 5 – 120 rpm.
- 7) The compactor must have a facility to collect the leaked water or any admixture utilized for cement concrete specimen formation ensuring no damage to any of the part of the equipment.
- 8) The compactor should have an automatic electromechanical extruder for specimen removal.

(ii) Technical Requirements for Torque Measurement System

The compactor must be capable of measuring the real time torque (torque resistance) in the range of 1-100 Nm.

Power Supply

The instrument should be able to run in 220-240V, 50 Hz AC with single-phase power supply.

Data Acquisition

- 1) The angle of gyration must be displayed during the compaction process.
- 2) The gyrotory compactor should be capable of being controlled by a personal computer.
- 3) The software must have the ability to control various parameters such as number of gyrations, speed of gyration, angle of gyration and pressure.
- 4) Standard template for plotting curves between density and number of gyrations must be readily available.
- 5) The software must have the ability to measure the shear during compaction process.
- 6) The time interval between subsequent measurements of data should be programmable.
- 7) The software should be capable of measuring the raw data at every gyration.

Any other optional accessories suitable for Gyrotory Compactor may also be quoted. However, the purchase of the same will be solely depending on the availability of the funds.

Others

All the safety-related concerns must be stated, and details of functional access provided for safety-related problems should be mentioned in detail.

GENERAL TERMS AND CONDITIONS

- ✓ The supplier/vendor must be an original equipment manufacturer or the sole authorized agent/dealer/seller of the proprietary item.
- ✓ The system should be delivered within 14-16 weeks from the opening of the letter of credit or issue of the purchase order, whichever is later.
- ✓ Costs and related information should be given only in the financial bid.
- ✓ The cost should include 24 months warranty of the overall system and CIF up to Chennai.
- ✓ The warranty shall commence only from the date of equipment installation at IITM.
- ✓ Prices quoted should be valid for at least 90 days.
- ✓ Item-wise break up of cost should be provided in the commercial bid for different items. IIT Madras reserves the right to exclude some items from the purchase.
- ✓ The payment conditions consist of 90% LC at site and 10% after installation and satisfactory training.
- ✓ The system should be installed and commissioned with no additional cost.
- ✓ Training at IIT Madras should be provided with no additional cost.
- ✓ Two copies of the system manual should be provided in CD form.

Technical Bid should comprise of the following:

- ✓ Detailed Technical brochure
- ✓ Detailed technical write up explaining how each of the Technical Specifications are complied with.
- ✓ The list of at least three Institutions/R&D units/Industry where similar installations have been supplied in India/abroad including contact details (name of the person in-charge, email and phone number) is to be provided.
- ✓ The vendor should guarantee round the clock technical support not only during the warranty period but even beyond through an annual maintenance contract. Demonstration of having provided such satisfactory technical support to customers shall be enclosed with the technical bid.

**TECHNICAL SPECIFICATIONS-CUM-COMPLIANCE TABLE FOR
GYRATORY COMPACTOR FOR CONCRETE**

NOTE: For each specification, please enter “YES” or “NO” in the second column of this table. **If a cell in the second column is left blank, then it will be assumed that the quotation does not comply with the respective specification/requirement.** Provide catalogues, data sheets and/or other documentation to support the compliance of your equipment to the given specifications.

1 General	Yes / No	Remarks
<p>Equipment for compacting zero-slump cement concrete mixes such as Roller Compacted Concrete, Dry Lean Concrete, and Concrete Paver Blocks.</p> <p>Equipment for measuring the real time torque (torque resistance) during the compaction process.</p> <p>The compactor should have the following characteristics or better and should satisfy and demonstrate the performance criteria given in Section 2, Section 2.1 and Section 3.</p>		
2 Technical Requirements for Gyratory Compactor		
2.1 The compactor must be fully electromechanical in working.		
2.2 The compactor must be capable of compacting cylindrical concrete specimens of diameter 100 mm (minimum) and height 200 mm with an accuracy of 0.1 mm.		
2.3 The compactor must be capable of generating a vertical pressure in the range between 25 to 2200 kPa.		
2.4 The compactor must be capable of compacting concrete specimens with varied number of gyrations in the range of 1 - 9999.		
2.5 The angle of gyration must be changeable between 0° - 3° with a sensitivity of ±0.01.		
2.6 The compactor must be capable of varying the gyration speed in the range of 5 – 120 rpm.		
2.7 The compactor must have a facility to collect the leaked water or any admixture utilized for cement concrete specimen formation ensuring no damage to any of the part of the equipment.		
2.8 The compactor should have an automatic electromechanical extruder for specimen removal.		

2.1 Technical Requirements of Torque Measurement System		
2.1.1 The compactor must be capable of measuring the real time torque (torque resistance) in the range of 1-100 Nm.		
3 Data Acquisition		
3.1 The angle of gyration must be displayed during the compaction process.		
3.2 The gyratory compactor should be capable of being controlled by a personal computer.		
3.3 The software must have the ability to control various parameters such as number of gyrations, speed of gyration, angle of gyration and pressure.		
3.4 Standard template for plotting curves between density and number of gyrations must be readily available.		
3.5 The software must have the ability to measure the shear during compaction process.		
3.6 The time interval between subsequent measurements of data should be programmable.		
3.7 The software should be capable of measuring the raw data at every gyration.		
4 Power Supply		
4.1 The instrument should be able to run in 220-240V, 50 Hz AC with single-phase power supply.		
5 Manufacturer Experience, Installation & Training		
5.1 Provide a list of at least three Institutions/R&D units/Industry where similar installations have been supplied in India/abroad including contact details (name of the person in-charge, email and phone number) is to be provided.		
5.2 Hands-on training on the testing, data acquisition and basic maintenance of the equipment should be provided for a period of at least two full working days at IIT Madras, Chennai.		
5.3 The manufacturer must have a well-qualified technical support team.		



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR)
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI 600 036



**ELECTRONIC CLEARING SERVICE (Credit Clearing)/ REAL TIME
GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS**

A. Details of Account Holder

Name of the Institution	Indian Institute of Technology - Madras
Complete Contact Address	Industrial Consultancy and Sponsored Research Indian Institute of Technology-Madras, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
Telephone No./ Fax No.	Tel - 044-22578355 / Fax - 044-22570545
E- mail ID of the FO/AO/REG/DIR	dricsr@iitm.ac.in

B. Bank Account Details:

Institution Account Name (As per Bank Record)	The Registrar, Indian Institute of Technology - Madras
Account No.	2722101001741
Account Print Name	IIT F A/C , The Registrar IIT Madras
IFSC CODE	CNRB0002722
Bank Name (in full)	Canara Bank
Branch Name	IIT-Madras Branch
Complete Branch Address	Canara Bank, IIT-Madras Branch, IIT- Madras Campus Post Office, Sardar Patel Road, Guindy, CHENNAI - 600 036
MICR No.	600015085
Account Type	Savings Account

Certified that the Institute's account is in an RTGS enabled branch.
I hereby declare that the particulars given above are correct and complete.

Date: _____ Signature of the Competent Authority
of the Institution with seal.

K. M. Srinivasan
DEPUTY REGISTRAR (IC&SR) (IC)
IC & SR, I.I.T. MADRAS
CHENNAI - 600 036

Certified that the particulars furnished above are correct as per our records.

Date: _____ Signature of the Authorized
Bank Official with Bank Seal.



For **CANARA BANK**
[Signature]
SENIOR MANAGER
I.I.T. CHENNAI-600 036.

B. SEKAR
Senior Manager
SP No. 39312



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR)
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI 600 036



K VIJAYALAKSHMI
DEPUTY REGISTRAR (IC&SR) *KL*

Project Accounts
July 5, 2019

TO WHOMSOEVER IT MAY CONCERN

In connection with project, US currency may be transferred to CANARA BANK, IIT – MADRAS Branch In connection with the following details.

FOR TRANSFER OF CURRENCY US DOLLAR

Please Credit in USD

(THROUGH)

JP MORGAN CHASE, NEW YORK
SWIFT CODE: CHASUS33

For credit to

USD ACCOUNT No: 001 – 1395969, of CANARA BANK INTERNATIONAL DIVISION MUMBAI

For Further Credit to

ACCOUNT NO: 2722101001741 of IIT Chennai – Swift Code: CNRBINBBIT OF THE REGISTRAR, IIT, MADRAS

K Vijay
DEPUTY REGISTRAR(IC & SR) i/c

This is to certify that particulars furnished are correct.

for CANARA BANK
[Signature]
Senior Manager
CHENNAI-600 036.
Canara Bank – IIT Madras branch

B. SEKAR
Senior Manager
SP No. 39312



DEPUTY REGISTRAR (IC&SR) (i/c)
IC & SR, I.I.T. MADRAS
CHENNAI - 600 036