

Cost of Tender Document Fee Rs.500/

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

INVITATION OF TENDERS

AMPT along with Gyrotory Compactor

Tender Reference : **CED/First/NITK/2018-19/203**

Date of Commencement : 17.05.2019
for Sale of Tender
Documents

Last date and Time for : 06.06.2019 Upto 2:30 P.M
Receipt of Tenders

Time and date of opening : 06.06.2019 at 3:00 P.M
of Tenders

Place of opening of : **Office of the Prof-in-Charge (Stores)**
Tenders **NIT, Kurukshetra**

**INSTRUCTIONS TO TENDERERS
&
CONDITIONS OF CONTRACT**

1. The National Institute of Technology, Kurukshetra, Haryana an Educational Institution invite tenders for Supply of AMPT along with Gyrotory Compactor.

The Tenders should be submitted in two parts in separate covers (Technical Bid & Financial Bid) in following manner:

- (i) Bid containing technical specifications and Earnest Money Deposit. (as per scheduled)
- (ii) Bid containing financial offer.
- (iii)

The envelopes should be marked as Technical Bid and Financial Bid with reference number and submitted in one cover.

The Technical Bid and Financial Bid will be opened in two stages on different dates. The bid containing technical specifications and Earnest Money deposit will be opened at 1st stage. The Financial Bid of technically qualified bidders will be opened on 2nd stage & will be intimated to only the successful bidders accordingly.

2. Tender must be sent in a properly sealed envelope with tender number and due date subscribed on the envelope addressed to the Prof-in-Charge (Stores), NIT, Kurukshetra.
3. The price should be quoted on prescribed price schedule. All corrections must be attested by the tenderer.
4. All the columns of the tender form shall be duly and properly filled in separately. The rates and units shall not be overwritten in the price schedule. The rates shall be quoted both in figures and words. The Tender should be signed by the authorized signatory of the firm with seal of the firm.
5. The tenderer shall deposit earnest money as specified in Schedule of Requirement alongwith Technical Bid in form of Account paying Bank Draft, Fixed deposit receipt, Bankers Cheque or Bank Guarantee from any Commercial Bank in favour of Director, National Institute of Technology, Kurukshetra. The tenders without Earnest Money shall be rejected. The Earnest money will remain valid for a period of 45 days beyond the final bid validity period.
6. In case the Tender Documents are downloaded from the website of the Institute for submission of the tender, the Tender Document Fee may be deposited through Demand Draft alongwith the Tender otherwise the tender may be rejected.
7. The successful tenderer shall furnish the Performance Security for an amount of 5% of total value of the equipment in form of Account Paying Bank Draft, Fixed Deposit Receipt, Bankers Cheque or Bank Guarantee from any Commercial Bank in favour of Director, National Institute of Technology, Kurukshetra for the period of completion of performance obligations and warranty period. The Performance Security shall remain valid for a period of 60 days beyond completion of contractual obligations and warranty period.

8. The required delivery period must be mentioned against each item. After the order has been placed, the goods must be delivered within the stipulated period or by the delivery period extended by the Institute. In case of late delivery of goods, the Institute is entitled to recover as penalty from the tenderer a sum @ 0.5% of the total value of the goods per week and the maximum 10% of the total value of the goods for which the consignment is delayed beyond the due date.
9. The payment will be made after receipt of goods according to specifications, its installation and good working order. In case the goods are rejected these have to be removed by the supplier at his own cost. The rejected goods must be replaced by the supplier within 15 days of the dispatch of registered notice intimating that the goods have been rejected failing which the order may be cancelled and security forfeited.
10. No payment will be made in advance for any supplies under this tender. No claim for any duty, not stipulated in tender will be admitted at any stage.
11. The valid documentary proof of GST No. & details of Income Tax registration (PAN) should be submitted alongwith tender. The taxes must be quoted clearly and separately. If the taxes are not quoted separately, it will be presumed that the rates quoted are inclusive of taxes. The rates quoted should be firm and include all charges. The material may be dispatched "FREIGHT PAID" where the offer is F.O.R. destination. The Form D is not issued by the Institute.
12. In case of goods controlled by the Government, the tendered rates shall not be higher than the controlled rates.
13. Standard warrantee of the items should be mentioned in the tender. A list of users where similar equipment has been supplied in the past should be furnished with the tender.
14. Director of the Institute reserves the right to accept or reject any tender or to cancel the whole bidding process without assigning any reason.
15. The institute reserve the right to verify/seek confirmation of all original documentary evidence submitted by the venders in support of the tenders, specifications for eligible criteria. In case any information furnished by vender is found false/incorrect the tender will be rejected. The descriptive literature with full technical data and drawing/photos must be furnished alongwith the tender.
16. In case of dispute the decision of the Director shall be final. All above conditions will be enforced unless written orders of the Director are obtained relaxing any specific condition in any particular instance.
17. The tender shall remain valid for **90 days** from the date of opening of tender. Fax or conditional tenders shall not be accepted.
18. **Tender received beyond the fixed date and time shall not be accepted.**

19. The tenderers are required to quote their lowest rates in the very first instance and there shall be no negotiation in purchases. In case only one tender is received or only one tender remains according to specifications of the required goods, negotiations will be carried out.
20. The Specification as per list attached. The tenderer must quote all items otherwise tender will be rejected.
21. Tender Evaluation: - All bids received in time will be technically evaluated by a committee who meets our tender specification and other terms & conditions. The financial bids of those bid who are accepted by the committee will be opened.
22. Lowest Offer: - Lowest offer will be calculated on the basis of total price of all items quoted who qualifies our specification and terms conditions of our tenders. No individual item prices will be considered for comparison of prices.

PRICE SCHEDULE

Having examined the tender documents, the receipt of which is hereby duly acknowledged, we offer to supply the goods and services in conformity with the said tender documents at the rates shown below:

1	2	3	4	5	6	7	8	9	10	11
Sr.No	Particulars of the items	Unit	F.O.R	Duties inclusive, if exclusive rates be given	Packing forwarding charges if any	GST	Total Cost F.O.R Kurukshe tra	Delivery Period	Particulars of Manufacture rs	Remarks

N.B.: The price column should be properly filled. In case nothing is mentioned in the columns the price will be considered inclusive of Taxes Duties, packing and forwarding etc.

Signature

Dated the _____ Date of _____

Address with seal

SCHEDULE OF REQUIREMENTS

Sr. No.	Name of the Items	Qty.	Earnest Money (in Rs.)
1.	AMPT along with Gyrotory Compactor	01 No.	1,50,000.00

ASPHALT MIX PERFORMANCE TESTER - AMPT

Integrated, computer based hydraulically /Pneumatic/Electro-mechanically controlled system which should be combined of axial loading, confining pressure and temperature control. As per NCHRP 9-29 standard, capable of doing (i) Compressive test (ii) Flow time (static creep) (iii) Flow number (repeated load) and (iv) Dynamic modulus $|E^*|$ test on cylindrical asphalt concrete specimen. Should have integrated pressure vessel and temperature chamber to maximize accessibility during specimen setup; enclosure lifted pneumatically to expose all sides of the specimen.

System should include flexible, fully integrated software for control, data acquisition and real time monitoring with real time graphic scope for instant visual feedback. Software should produce reports in NCHRP 9-29 specified formats. System should also include 'magnetic mounted' extensometers.

The machine shall be able to perform following tests:

- Dynamic modulus E^* (AASHTO TP79)
- Repeated load (Flow number AASHTP TP79) creep test
- Static (Flow time) creep test
- Dynamic modulus E^* (AASHTO T342/TP62)¹
- Semi-circular bend test (ASTM D8044 and AASHTO TP124)
- SVECD Uniaxial Fatigue (AASHTO TP107)
- Overlay Test (TxDOT Tex-248-F and ASTM WK 26816)
- Indirect Tensile Dynamic Modulus on 100 and 150mm diameter specimens
- Incremental Repeat Load Permanent Deformation test (iRLPD AASHTO TP116)
- Small Scale 38mm and 50mm diameter Dynamic Modulus, Flow Number and SVECD Uniaxial Fatigue.

Actuator: 15kN dynamic or better

Stroke: +/-15mm (30mm)

Load Cell: 20KN

On-Specimen Displacement Transducers

Standard 3 clip on +/-0.5mm LVDTs equally spaced around the circumference of the specimen

Option of using 4 LVDTs (AASHTO TP62) and Extensometers (Magnetic mounted)

Triaxial Cell & Environmental Chamber

Built in pressure vessel with air as confining medium

Specimen size: 100 mm dia. Maximum x 150 mm height

Confining pressure range: 0-210 kPa or better

Integrated pressure transducer

Temperature Range: chamber range 4°C to +60°C at +/-0.5°C

Fully Integrated CDAC (Control & Data Acquisition System)

Real-time digital computer control with 32 bit processing
Servo-control: 16 bit Or better
Closed loop sampling rate: 5 kHz or better
Data resolution and control: 20 bit auto-ranging or better

Accessories

The machine shall be supplied complete with all accessories including Gauge Point Fixing Jig, Integral vacuum generator, gauge point settings arms to suit other transducers (including extensometers), Adaptable for small diameter specimens, Integrated silent oil free compressor, PC with requisite software for operation

GYRATORY COMPACTOR

The gyratory compactor shall comply with relevant ASTM, AASHTO, SuperPave and EN standards: EN 12697-10, EN 12697-31, ASTM D6925, AASHTO T312 (TP4) and SHRP M002.

It shall be capable of producing samples from laboratory prepared or plant mix hot mix asphalt, warm-mix asphalt, foamed mix and cold mixes, including mixes containing emulsified binder.

- Load applied: adjustable up to 800 kPa on 150 mm dia. Specimen and up to 1400 kPa on 100 mm dia. specimen.
- Internal angle of gyration adjustable: standard factory set: 0.82° (EN12697-31) or 1.16° (ASTM D6925, AASHTO T312, SHRP M-002)
- Number of cycles adjustable from 1 to 999 or better
- Gyration rate: 5 to 60 cycles/min
- Height measurement Accuracy: 0.1 mm
- Gyratory compactor shall be capable of compacting the specimen with three possible termination modes: Number of gyrations, Maximum Height and Density.
- Data measured should be downloadable/printable through USB port
- Maximum mold temperature: 175°C
- Should have integrated sample extruder capable of extruding both 150 mm and 100 mm diameter and 250 high samples with integrated bench.
- Calibration kit for
 - Height: with standard height block,
Certificate for testing and verifying load.
 - Gyration rate
- Compaction moulds, bottom plates and piston face:
 - Moulds with 150 mm and 100 mm internal diameter and height of 250 mm
 - Piston Face for 100 diameter mould and 150 mm diameter mould
- Angle of Gyration accuracy: 0.01°

Windows based PC software for remote test control and test data acquisition and display of results in real time including: Specimen height, Number of gyrations, Density, Air voids

Data elaboration of single and multiple tests with facility to perform Superpave Mix Design procedure

Supply should complete with:

Gyratory compactor with inbuilt Keypad and backlit display screen and inbuilt specimen extruder, Gyratory Mold of 150mm- 2No, Gyratory Mold of 100mm- 2No, Specimen papers, Standard Height Block, Brush, Manual, USB serial Cable, Power cord.