

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

No. CED/Trans./NITK2017/16 | 793

Dated: 15/02/17

M/s INSTITUTE WEBSITE

Sub: INVITATION OF QUOTATIONS FOR ADVANCE VISCOMETER FOR BITUMAN & ASPHALT

1. You are invited to submit your most competitive quotation for the following goods:

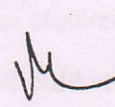
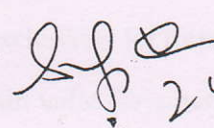
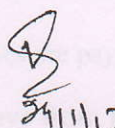
Sr.No.	Brief Description & Specifications of Goods	Quantity
1.	Advance Viscometer For Bituman & Asphalt	01 Nos.
(Detailed Specifications are attached)		

- Necessary literature of the goods may please be sent to facilitate to take decision.
- All duties taxes and other levies payable by the Institute shall be included in the total price. This Institute does not issue Form C or D.
- Payment will be made Online through RTGS/NEFT within 30 days after receipt of material in good condition and according to specifications. The Bank detail for making online payment may be indicated in the quotation.
- The supplier shall deposit Earnest Money alongwith the Quotation amounting to Rs. 32000 /- in shape of Accounts Payee Demand Draft, Fixed Deposit Receipt, Bankers Cheque or Bank Guarantee from any commercial Bank in favour of the Director, National Institute of Technology, Kurukshetra. The Quotations without Earnest Money shall be rejected, the EMD will remain valid for a period of 45 days beyond the final validity period of quotation.
- Performance Security @ 05% of the total value of the equipment may be furnished in shape of Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any Commercial Bank in favour of the Director, NIT Kurukshetra valid upto 60 days after the date of completion of warranty .
- The items must be supplied within delivery period or delivery period extended by the Institute on the request of the supplier on genuine grounds otherwise the penalty for delayed period @ 0.5% of the amount shall be charged for every week or part thereof and the maximum 10%..
- The goods are not required exclusively for Research Purpose. The Duties are payable by the Institute.
- The quotation should remain valid for a period not less than 60 days from the date of submission.
- The right of accepting or rejecting any quotation and to cancel the bidding process and reject all quotations without assigning any reason is reserved with the Institute.
- The due date for receipt of quotation is 03.03.2017 and will be opened on next working day. Please quote on the top of the envelope our Ref. No. and due date of opening.


Deputy Registrar (I/c Stores)

131212

Specification for ADVANCE VISCOMETER for Bitumen & Asphalt	
MAIN INSTRUMENT	
MOTOR TECHNOLOGY	EC motor (brushless DC) with high-resolution optical encoder or other
TORQUE RANGE	200 μ Nm to 115 mNm OR BETTER
TORQUE RESOLUTION	100 nNm or better
SPEED RANGE	10E-3 to 1500 RPM OR BETTER
FREQUENCY RANGE	10E-3 to 628 rad/s OR BETTER
ANGULAR DEFLECTION RESOLUTION	614nrad OR BETTER
STRAIN SENSOR	HIGH RESOLUTION OPTICAL ENCODER
MEASUREMENT TYPES	ROTATIONAL , OSCILLATORY
GAP CONTROL	SHOULD HAVE SAFE GAP, NORMAL FORCE LIMITER DURING GAP SETTING
DIRECT STRESS AND STRAIN CONTROLLER	SHOULD HAVE THE DIRECT STRAIN AND STRESS CONTROLLER
STEP RATE AND STEP STRAIN	100 ms
TEMPERATURE CONTROL SYSTEM	
TEMPERATURE RANGE	0 TO 200 DEG C with PELTIER TEMPERATURE CONTROL DEVICE
VISCOSITY RANGE	10 CP TO 10 ⁸ CP OR MORE
MEASURING SYSTEMS	
SHEAR VISCOMETRY/RHEOLOGY	MEASURING PLATE DIAMETER 25MM -01 NO. MEASURING PLATE DIAMETER 08MM -01 NO.
SOFTWARE SPECIFICATIONS:	SOFTWARE MUST COMPLY WITH THE SCRIPTS OF ASTM AND ASSHTO ON ASPHALT TESTING AND AUTOMATICALLY GENERATE THE NOTICE OF TEST/PASS /FAIL. THE RHEOLOGY SOFTWARE SHOULD HAVE BASIC TEST TEMPLATES FOR ALL TYPE OF RHEOLOGY VARIABLES TO OBTAIN DATA PROFILES LIKE: VISCOSITY CURVE AS A FUNCTION OF TIME, TEMPERATURE, SHEAR RATE AND SHEAR STRESS COMPLEX VISCOSITY AS A FUNCTION OF TIME, TEMPERATURE, FREQUENCY, STRAIN AND STRESS SHEAR STRESS AS A FUNCTION OF SHEAR STRAIN TO IDENTIFY THE LVER (LINEAR VISCO-ELASTIC REGION) OF THE SAMPLE. ELASTIC (G'), LOSS (G''), COMPLEX MODULUS (G*), TAN δ AS A FUNCTION OF TIME, TEMPERATURE, FREQUENCY, STRAIN AND STRESS IN SHEAR MODE.
UTILITIES	
ALL REQUIRED ACCERORIES/UTILITIES SHOULD ALSO OFFER	



 24.01.17.
 

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