



**OFFICE OF THE RESEARCH OFFICER
GROUND WATER RESEARCH UNIT-1
IRRIGATION RESEARCH INSTITUTE
ROORKEE-247 667**



Email address:- info@iriroorkee.res.in

QUOTATION NOTICE No. 02/Timber testing/GWRU-1/IRI dated 20.11.2020

Sealed quotations are invited on behalf of Hon'ble Governor of Uttarakhand from authorized manufacturing company/whole seller/distributor for the supply of 14 machines/equipments for the establishment of Timber Testing Lab. at IRI, Roorkee. The Quotation should be submitted up to **10.12.2020 at 03:00 PM** in the office of undersigned and shall be opened on the same day i.e. **10.12.2020 at 03:30 PM** in the office of undersigned in presence of the Quotationer(s) or their authorized representatives. List/name of the aforesaid 14 different machines/equipments, terms & conditions, specifications etc. can be downloaded from our website www.iriroorkee.res.in or can be taken from the office of the undersigned after payment of Rs. 590/- (Five hundred ninety only).

Pre bid meeting will be held on dated 03.12.2020 at the office of undersigned.

Yes

R. Khan
(Research Officer)
Ground Water Research Unit-1

IRRIGATION RESEARCH INSTITUTE
ROORKEE-247 667
(Ground Water Research Unit-1)

QUOTATION NOTICE No. 02/Timber Testing/GWRU-1/IRI dated 20.11.2020

1. List/Name of the 14 Nos. Machines/Equipments for Timber Test

S.No.	Name of the Machines/Equipments	Quantity
1.	Universal Testing Machine (UTM) capacity 10 Ton (with least count = 0.5Kg.) with all accessories (Analog/Digital)	01
2.	Weighing Balance (Digital) 0-500 gm (with Least Count = 0.001gm)	01
3.	Weighing Balance (Digital) 0-10 kg (with Least Count = 0.1gm)	01
4.	Oven (Digital)	01
5.	Vernier Scale 6" (Digital)	01
6.	Mercury Volumeter (Borosil)	01
7.	Measuring Vessel (Borosil)	01
8.	Apparatus for determining Shrinkage	01
9.	Micrometer Screw Gauge (Digital)	01
10.	Torsion Testing Machine	01
11.	Impact Bending Test Machine with Dial gauge	01
12.	Apparatus JIG	01
13.	Hand drill machine	01
14.	Grinder 600 watt	01

2. Terms and Conditions:

1. Evaluation of each and every item shall be carried out separately.
2. Quotationer(s) is requested to submit his quotation offer in two separate envelopes. One contains technical proposal and another contains financial bid.
3. First of all technical envelope will be opened and evaluated. Financial bid/price/offer of only technically qualified bid will be accepted and entered for evaluation in the comparative statement.
4. The above rates shall be F.O.R. Roorkee and shall be inclusive of one year warrantee and one year comprehensive Annual Maintenance Contract (AMC) and all prevailing taxes.
5. The above rates should also include all the costs such as freight charges from ex-store to IRI, Roorkee Lab., unloading, installation, demonstration, calibration, training, AMC for 01 year etc.
6. The above rates should be valid for a minimum period of 120 days from the date of opening of quotation (in the stamp Paper of Rs.100).

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7. The Quotationer(s)/Bidder(s) shall have to supply within 60 days after the receipt of supply order.
8. The comprehensive warrantee will be of minimum 01 year after issuing of installation certificate by the department and comprehensive AMC period of 01 year will be started after completion of 01 year warrantee period.
9. The quantity of instrument/machine mentioned above can be reduced or increased upto any extent depending on the requirement at the time of purchase.
10. The 90% of the cost of the apparatus/machine shall be paid only after satisfactory supply, installation, demonstration, calibration, training to IRI Officers and Staff at IRI, Roorkee, etc. complete. 5% of the cost of the apparatus/machine shall be paid after one year of issuing of installation certificate after satisfactory performance of Quotationer(s)/Bidder(s) in respect of warrantee & AMC and similarly, the balance 5% of the cost of the apparatus/machine shall be paid after two years of issuing of installation certificate after satisfactory performance of Quotationer(s)/Bidder(s) in respect of warrantee & AMC.
11. The Quotationer(s)/Bidder(s) shall have to submit 'Calibration Certificate' from any Govt. recognized laboratories.
12. Bidders have to attach a certificate of successful supply of equipment to any organization by them.
13. Conditional/incomplete quotation shall not be accepted and the undersigned reserves the right to reject anyone or all quotations without assigning any reason.

Yes

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3. Specifications

S.No.	Name of the Machines/Equipments	Quantity	Justification (For Test/Purpose)	Specifications
1	2	3	4	5
1.	Universal Testing Machine (UTM) capacity 100 KN (with least count 5 N) with all accessories (Analog/Digital)	01	<ol style="list-style-type: none"> 1. Static bending 2. Impact bending 3. Compressive strength (Parallel/Perpendicular to grain) 4. Surface hardness 5. Shear strength (Radial/Tangential) 6. Tensile Strength (Parallel/Perpendicular to grain) 7. Cleavage Test 8. Nail & Screw pulling or withdrawal 9. Glue Adhesion Test (Glue Shear Strength) 10. Modulus of rupture (Parallel/Perpendicular to grain) 11. Modulus of elasticity (Parallel/Perpendicular to grain) 	UTM should comply all accessories to perform all tests as mentioned in column 4 of this table alongwith all the attachments/grips as per IS: 1708 (Part 1 to 18), IS: 1734, IS: 2380 (Part 4) & IS: 4020. Load Capacity: 10 Ton (Least Count = 0.5 Kg.) ANALOG Dial gauge with least count=0.02mm DIGITAL No. of Load Shell: Three i) Load Shell with an interval 0-2 MT, Rate of Loading/Speed 0.1mm/min ii) Load Shell with an interval 0-5 MT, Rate of Loading/Speed 0.5mm/min iii) Load Shell with an interval 0-10 MT, Rate of Loading/Speed 1.0mm/min
2.	Weighing Balance (Digital)	01	Shrinkage (Radial/Volumetric/Tangential), Moisture Content, Specific Gravity	0-500 gm (with Least Count = 0.001gm)
3.	Weighing Balance (Digital)	01	-do-	0-10 kg (with Least Count = 0.1gm)
4.	Oven (Digital) (Size 18" X 18" X 18")	01	Moisture Content, specific Gravity	(0°C-300°C) Min. Regulate 1° C
5.	Vernier Scale (Digital) (Size 6") (Mitutoyo or equivalent)	01	Glue Adhesion Test, Micrological test, Specific Gravity	With Least Count. = 0.01cm. as per IS 1734 (Part-4)

6.	Mercury Volumeter (Borosil)	01	Specific Gravity	As per IS 1708 (Part-2)
7.	Measuring Vessel (Borosil)	01	Volumetric Shrinkage	With Least Count = 0.01ml as per IS 1708 (Part-3).
8.	Apparatus for determining Shrinkage.	01	Shrinkage (Volumetric/ Radial/Tangential)	As per IS 1708 (Part-3 & 4)
9.	Micrometer Screw Gauge (Digital)	01	Shrinkage (Radial/Tangential)	With Least Count = 0.002 cm as per IS 1708 (Part-4).
10.	Torsion Testing Machine	01	Torsion	As per IS 1708 (Part-18).
11.	Impact Bending Test Machine	01	Impact bending	With Dial gauge (Least Count = 0.02 mm) as per IS 1708 (Part-7).
12.	Apparatus JIG	01	Swelling	As per IS 2380 (Part-17).
13.	Hand Drill Machine (Bosch or Equivalent brand)	01	Drilling	500 watts, 220-230 volts with all bits for timber & other accessories
14.	Grinder 600watt (Bosch or Equivalent brand)	01	Grinding	600 watts. 220-230 volt with 100mm grinder, wheel guard and wheel wrench

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P. Phoy
(Research Officer)
Ground Water Research Unit-1