

**Office of the Assistant Engineer
Highway Laboratory, Basic Research Unit
Irrigation Research Institute, Roorkee-247667**

Quotation Notice No. 02 /Highway/Quotation/2022-2023

On behalf of Hon'ble Governor of Uttarakhand, sealed quotations are invited from the NABL accredited firm/organizations for the calibrations of instruments/machines/apparatus of the following Labs. at IRI, Roorkee. The Quotation should be received by the office of undersigned upto 20.08.2022, 3.00 PM in person or by post. For any postal delay, the whole responsibility will be of quotationers only. The quotation shall be opened on 20.08.2022 at 3.30 PM at the office of undersigned. Other terms & conditions and specifications may be collected from the office of the undersigned in any working day. The same will be available on the website www.iriroomkee.res.in.

Sl. No.	Name of Unit/Labs	Unit	Quantity	Remark
1-	Highway Lab (Basic Research Unit)	No.	38	Refer Annexure-1
2-	Material Testing Unit-1	No.	53	Refer Annexure-2
3-	Material Testing Unit-2	No.	07	Refer Annexure-3
4-	Soil Research Unit-1	No.	44	Refer Annexure-4
5-	Soil Research Unit-2	No.	20	Refer Annexure-5
6-	Water Quality Lab Haldwani (GWU-1)	No.	26	Refer Annexure-6

Terms and Conditions: -

1. The item rate should be quoted without GST as per Annexure. The amount of GST must be added separately.
2. The quoted rates should be valid for a minimum period of 90 days from the date of opening of quotation
3. The quantity of items mentioned above can be reduced or increased upto any extent.
4. Conditional/incomplete quotation shall not be accepted and the undersigned reserves the right to reject anyone or all quotations without assigning any reason.
5. If the office happens to be closed on the date of opening of the quotation as specified above, the quotations will be opened on the next working day at the same time.

Assistant Engineer
Highway Lab.

Letter No. 232 /Highway/Quotation/2022-2023, Dated: 05.08.2022

Copy is forwarded to the following for information and necessary action:

1. Superintending Engineer, Research Circle, Irrigation Research Institute, Roorkee.
2. Executive Engineer, Administration Division, Irrigation Research Institute, Roorkee.
3. ✓ Research Officer, Basic Research Unit, Irrigation Research Institute, Roorkee with the request to publish the quotation in the website www.iriroomkee.res.in
4. Concerned Research Officer, Irrigation Research Institute, Roorkee.
5. Notice Board, I.R.I. Roorkee and Publishing on website Irrigation Research Institute, Roorkee.

Assistant Engineer
Highway Lab.

Highway Lab., Basic Research Unit, Irrigation Research Institute, Roorkee

S.No.	Item	Make	Range/Capacity	L.C	L.D/SINo.	Location/sub Div.	Dept/unit
1	Dial gauge	ASAHI	0mm to 25mm	0.01mm	(BRU/HL/DG-01)	Highway	BRU, IRI
2	Dial gauge	ASAHI	0mm to 25mm	0.01mm	(BRU/HL/DG-02)	Highway	BRU, IRI
3	Cylindrical Measure	ACTIRA	500ml	5ml	(BRU/HL/MS-01)	Highway	BRU, IRI
4	Cylindrical Measure	ACTIRA	1000ml	10ml	(BRU/HL/MS-02)	Highway	BRU, IRI
5	Cylindrical Measure	ACTIRA	25ml	0.5ml	(BRU/HL/MS-03)	Highway	BRU, IRI
6	Weighing balance	Excell	15kg	0.001kg	BRU/HL/WB-01	Highway	BRU, IRI
7	Weighing balance	Excell	3kg	0.01kg	BRU/HL/WB-02	Highway	BRU, IRI
8	Weighing balance	GF Japaness Technology	upto 5kg	0.1kg	BRU/HL/WB-03	Highway	BRU, IRI
9	Weighing balance	Goldtech	upto 100kg	0.005kg	BRU/HL/WB-04	Highway	BRU, IRI
10	CTM		0 to 1000KN	0.1 KN	BRU/HL/CTM-01	Highway	BRU, IRI
11	Water Bath	Yadian	27 to 60 C	1 C	BRU/HL/Waterbath-01	Highway	BRU, IRI
12	Hot Air Oven	SHIVAKI/PID-702	38*to 110 C	1 C	BRU/HL/Oven-01	Highway	BRU, IRI
13	Hot Air Oven	SHIVAKI/PID-702	38 to 110 C	1 C	BRU/HL/Oven-02	Highway	BRU, IRI
14	Los Angeles M/C	SAMRAT	30-33 RPM		BRU/HL/LAM-01	Highway	BRU, IRI
15	Rebound Hammer		10-70 N/m2	10 N/m2	SL01-001-0029	Highway	BRU, IRI
16	Test sieve 90mm	Sethi	90mm	-	BRU/HL/SS-01	Highway	BRU, IRI
17	Test sieve 80mm	-	80mm	-	BRU/HL/SS-02	Highway	BRU, IRI
18	Test sieve 63mm	Sethi	63mm	-	BRU/HL/SS-03	Highway	BRU, IRI
19	Test sieve 53mm	Sethi	53mm	-	BRU/HL/SS-04	Highway	BRU, IRI
20	Test sieve 50mm	-	50mm	-	BRU/HL/SS-05	Highway	BRU, IRI
21	Test sieve 45mm	Sethi	45mm	-	BRU/HL/SS-06	Highway	BRU, IRI
22	Test sieve 40mm	-	40mm	-	BRU/HL/SS-07	Highway	BRU, IRI
23	Test sieve 37.5mm	Lalji	37.5mm	-	BRU/HL/SS-08	Highway	BRU, IRI
24	Test sieve 31.5mm	-	31.5mm	-	BRU/HL/SS-09	Highway	BRU, IRI
25	Test sieve 26.5mm	Sethi	26.5mm	-	BRU/HL/SS-10	Highway	BRU, IRI
26	Test sieve 25mm	-	25mm	-	BRU/HL/SS-11	Highway	BRU, IRI
27	Test sieve 22.4mm	Sethi	22.4mm	-	BRU/HL/SS-12	Highway	BRU, IRI
28	Test sieve 20mm	-	20mm	-	BRU/HL/SS-13	Highway	BRU, IRI
29	Test sieve 19mm	-	19mm	-	BRU/HL/SS-14	Highway	BRU, IRI
30	Test sieve 16mm	-	16mm	-	BRU/HL/SS-15	Highway	BRU, IRI
31	Test sieve 13.2mm	-	13.2mm	-	BRU/HL/SS-16	Highway	BRU, IRI
32	Test sieve 12.5mm	-	12.5mm	-	BRU/HL/SS-17	Highway	BRU, IRI
33	Test sieve 11.2mm	-	11.2mm	-	BRU/HL/SS-18	Highway	BRU, IRI
34	Test sieve 2.36mm	Sethi	2.36mm	-	BRU/HL/SS-19	Highway	BRU, IRI
35	Test sieve 0.600mm	Lalji	0.600mm	-	BRU/HL/SS-20	Highway	BRU, IRI
36	Test sieve 4.25mm	Sethi	4.25mm	-	BRU/HL/SS-21	Highway	BRU, IRI
37	Test sieve 0.300mm	Lalji	0.300mm	-	BRU/HL/SS-22	Highway	BRU, IRI
38	Test sieve 0.150mm	Lalji	0.150mm	-	BRU/HL/SS-23	Highway	BRU, IRI



Material Testing Unit-1, Irrigation Research Institute, Roorkee

No	Item	Make	Range	L.C.	I.D/Sl.No.	Location/Sub.Div.	Dept/Unit
Old Apparatus							
1	Vibrating Table		4200 RPM			Roller Compacted Concrete lab	M.T.U.-1
2	Rebound hammer	Proceq	0 to 100 Rebound	2 Rebound	N-34-175410	do	do
3	Hot Air Oven	SELEC	0 to 400 °C	0.1 °C	10209	do	do
4	Weighing Balance 100kg	CAS	0 to 100 kg	0.010 kg	181200325	do	do
5	Weighing Balance 20kg	CAS	0 to 20 kg	2 gm	180951146	do	do
6	Weighing Balance 03 kg	CAS	1 to 03 kg	0.01gm	D470601235	do	do
Coarse Sieve (45Mm Dia)							
7	80 mm	Aimil	80 mm	-	180001	do	do
8	63mm	Aimil	63mm	-	180065	do	do
9	50mm	Aimil	50mm	-	180027	do	do
10	40mm	Aimil	40mm	-	180078	do	do
11	20mm	Aimil	20mm	-	180087	do	do
12	12.50mm	Aimil	12.50mm	-	180042	do	do
13	10mm	Aimil	10mm	-	180131	do	do
14	4.75mm	Aimil	4.75mm	-	180087	do	do
(b) New Apparatus							
15	850μ	Standard	850μ	-	-	do	do
16	150μ	Standard	150μ	-	-	do	do
(c) Self Compacting Concrete (SCC)							
17	Base Plate	-	-	-	-	do	do
18	Measuring Tape	-	-	-	-	do	do
19	Spirit Level	-	-	-	-	do	do
20	Sample Container	-	-	-	-	do	do
21	V-Funnel	-	-	-	-	do	do
22	Straight Edge	-	-	-	-	do	do
23	L-Box	-	-	-	-	do	do
(d) Other Apparatus							
24	Specific Gravity	-	-	-	-	do	do
25	Permeability Test Apparatus	Aimil	0-17.5kg/cm ²	0.5kg/cm ²		do	do
26	Picnometer	-	-	-	-	do	do
27	Ultrasonic Pulse Velocity	03 (CUTE10)	0.1 to 9999.9μs	0.1μs		do	do
28	Muffle Furnace	-	0 to 1100 °C	1 °C		do	do
29	Calorimeter	-	-	-	-	do	do
30	Weighing Balance 220 gm	Winsar	0 to 220 gm	0.0001 gm		do	do
Cement Concret Lab							
1	Compression Testing Machine (500 Tons Capacity)	MAN	500 Tons	0.25 Tons 0.5 Tons 1 Tons	Nr. 08-700170	Cement Concret Lab	M.T.U.-1
2	Universal Testing Machine(400000 lbs.	TINIUS OLSEN	400000 lbs.	100 lbs 500lbs	57155	do	do
3	Vibrating Zolt Squeezer (for Casting of Cement Cubes)	BAUMUL LER NURNBER G	-	-	198262	do	do
4	Vibrating Table	-	-	-	-	do	do
5	Los Angeles	-	-	-	-	do	do
6	Weighing Balance 100kg	WENSAR	100 kg	10 gm	IND/09/12/566		
7	Weighing Balance 15kg	EXCELL	15 kg	0.5 gm	18060013	do	do
Coarse Sieve (45Mm Dia)							
8	80 mm	Aimil	80 mm	-	180022	do	do
9	63mm	Aimil	63mm	-	180002	do	do
10	50mm	Aimil	50mm	-	180024	do	do
11	40mm	Aimil	40mm	-	180084	do	do
12	25mm	-	25 mm	-	-		
13	20mm	Aimil	20mm	-	180056	do	do
14	12.50mm	Aimil	12.50mm	-	180037	do	do
15	10mm	Aimil	10mm	-	180127	do	do
16	4.75mm	Aimil	4.75mm	-	180073	do	do
17	6.3mm	-	6.3mm	-	-		
Coarse Sieve(30 mm Dia)							
18	16mm	GSMW	16mm	-	-	do	do
19	8mm	BUDH	8mm	-	-	do	do
20	Hot Air Oven	-	-	-	-	do	do
Coarse Sieve(8" Dia Brass)							
21	4mm	SYTEX	4mm	-	-	do	do
22	1.7mm	Aimil	1.7mm	-	180057	do	do
23	45μ	Aimil	45μ	-	176306	do	do

(Annexure-3)

Material Testing Unit-2, Irrigation Research Institute, Roorkee

S.No.	Item	Make	Range/Capacity	L.C	L.D/SINo.	Location/sub Div.	Dept/unit
Rock Mechanics Lab.							
1	Dial Gauge	Miutoyo	0-50mm	0.01	-	Rock Machanics Lab	MT-2
2	Dial Gauge	Miutoyo	0-50mm	0.01	-	Rock Machanics Lab	MT-2
3	Dial Gauge	Miutoyo	0-50mm	0.01	-	Rock Machanics Lab	MT-2
4	Dial Gauge	Miutoyo	0-50mm	0.01	-	Rock Machanics Lab	MT-2
5	Digital Weighing Balance 5 kg	Wensar	5gm to 6000gm	5gm	-	Rock Machanics Lab	MT-2
6	Digital Weighing Balance 100 kg	Wensar	500gm to 100kg	500gm	-	Rock Machanics Lab	MT-2
Pipe Testing Lab.							
1	Pressure/Leakage Testing Machine	-	0-10Mpa	-	-	Pipe Testing Lab	MT-2



Soil Research Unit-1, Irrigation Research Institute, Roorkee

S.No.	Item	Quantity	Make	Range/Capacity	L.C	L.D/SINo.	Location/sub Div.	Dept/unit
1	Electronic Weighing Balance	1	-	10 gm to 100 kg	-	-	-	Soil-1
2	Electronic Weighing Balance	1	-	1 gm to 10 kg	-	-	-	Soil-1
3	Electronic Weighing Balance	1	-	0.1gm to 1 kg	-	-	-	Soil-1
4	Vibrating Table	1	-	-	-	-	-	Soil-1
5	Digital Temperature Controller of hot air oven	1	-	-	-	-	-	Soil-1
6	Churner/Stirrer	1	-	-	-	-	-	Soil-1
7	Dial Gauge	1	-	0 to 50 mm	0	-	-	Soil-1
8	Dial Gauge	1	-	0 to 50 mm	0	-	-	Soil-1
9	Dial Gauge	1	-	0 to 50 mm	0	-	-	Soil-1
10	Dial Gauge	1	-	0 to 50 mm	0	-	-	Soil-1
11	Measuring Cylinder	1	-	50ml to 500ml	-	-	-	Soil-1
12	Measuring Cylinder	1	-	10ml to 250ml	-	-	-	Soil-1
13	Hydromet+A15:I33+A15:I33er(ASTM-152 H Hydrometer Soil Test (USA) Temp, 68F	1	-	5 to 60	-	-	-	Soil-1
14	Hydrometer(Soil Hydrometer : 152 H,Temp, 68F per liter Bouyoucos Scale	1	-	995-1030	-	-	-	Soil-1
Screen Sieve								
15	80 mm	1	-	-	-	-	-	Soil-1
16	75 mm	1	-	-	-	-	-	Soil-1
17	40 mm	1	-	-	-	-	-	Soil-1
18	37.5mm	1	-	-	-	-	-	Soil-1
19	31.5 mm	1	-	-	-	-	-	Soil-1
20	20 mm	1	-	-	-	-	-	Soil-1
21	19 mm	1	-	-	-	-	-	Soil-1
22	10 mm	1	-	-	-	-	-	Soil-1
23	6.3 mm	1	-	-	-	-	-	Soil-1
24	4.75 mm	1	-	-	-	-	-	Soil-1
Sieve								
25	10 mm	1	-	-	-	-	-	Soil-1
26	4.75 mm	1	-	-	-	-	-	Soil-1
27	2.36 mm	1	-	-	-	-	-	Soil-1
28	1.18 mm	1	-	-	-	-	-	Soil-1
29	0.60 mm	1	-	-	-	-	-	Soil-1
30	0.425 mm	1	-	-	-	-	-	Soil-1
31	0.30 mm	1	-	-	-	-	-	Soil-1
32	0.15 mm	1	-	-	-	-	-	Soil-1
33	0.075 mm	1	-	-	-	-	-	Soil-1
34	Hydraulic Jack 50 ton	1	-	50 ton	-	-	-	Soil-1
35	Hydraulic Jack 100 ton	1	-	100 ton	-	-	-	Soil-1
36	Hydraulic Jack 250 ton	1	-	250 ton	-	-	-	Soil-1
37	LVDT of Triaxial Shear Test Apparatus	1	-	-	-	-	-	Soil-1
38	LVDT of CBR Test Apparatus	1	-	-	-	-	-	Soil-1
39	Pressure Gauge and load cell of Triaxial Shear Test	3	-	-	-	-	-	Soil-1
40	Load Cell of CBR	1	-	-	-	-	-	Soil-1
41	Compaction	1	-	-	-	-	-	Soil-1
42	Direct Shear Test (6.0X6.0X2.5)cm	1	-	-	-	-	-	Soil-1

(Annexure-5)

Soil Research Unit-2, Irrigation Research Institute, Roorkee

S.No.	Item	Quantity	Make	Range/Capacity	L.C	L.D/SINo.	Location/sub Div.	Dept/unit
1	Muffle Furnace	1	-	-	-	-	-	Soil-2
2	Electric Furnace	1	-	-	-	-	-	Soil-2
3	Drying Oven	1	-	-	-	-	-	Soil-2
4	Hot Plate	2	-	-	-	-	-	Soil-2
5	Weighing Balance	1	-	-	-	-	-	Soil-2
6	Flame Photometer	1	-	-	-	-	-	Soil-2
7	Water Bath	1	-	-	-	-	-	Soil-2
8	Volumetric Flask 100 ml	1	-	-	-	-	-	Soil-2
9	Volumetric Flask 500 ml	1	-	-	-	-	-	Soil-2
10	Volumetric Flask 1000 ml	1	-	-	-	-	-	Soil-2
11	Beaker 200 ml	1	-	-	-	-	-	Soil-2
12	Beaker 250 ml	1	-	-	-	-	-	Soil-2
13	Beaker 500 ml	1	-	-	-	-	-	Soil-2
14	Pipette 10 ml	1	-	-	-	-	-	Soil-2
15	Pipette 25 ml	1	-	-	-	-	-	Soil-2
16	Pipette 50 ml	1	-	-	-	-	-	Soil-2
17	Measuring Cylinder 10 ml	1	-	-	-	-	-	Soil-2
18	Measuring Cylinder 25 ml	1	-	-	-	-	-	Soil-2
19	Conical Flask	1	-	-	-	-	-	Soil-2



(Annexue-6)

Water Quality Lab. Haldwani (GWU-1), Irrigation Research Institute, Roorkee

S.No.	Item	Quantity	Make	Range/Capacity	L.C	L.D/SINo.	Location/sub Div.	Dept/unit
1	Analytical Weighing Balance (Metiler)	2	-	-	-	-	Water Quality Lab Haldwani	GW-1
2	Multiparameter with pH, Conductivity, TDS & DO Electrode (Hach)	3	-	-	-	-	-	
3	UV-VIS Spectrophotometer (Hach)	1	-	-	-	-	-	
4	Autoclave (Equitron)	1	-	-	-	-	-	
5	Drying Oven	1	-	-	-	-	-	
6	Laboratory Refrigerator	1	-	-	-	-	-	
7	Cooling Incubator	1	-	-	-	-	-	
8	Bacteriological Incubator	1	-	-	-	-	-	
9	Hot Plate (Tempstar)	1	-	-	-	-	-	
10	Water Bath	1	-	-	-	-	-	
11	Digital Thermometer	1	-	-	-	-	-	
12	Digital Burette	3	-	-	-	-	-	
13	Chemical Oxygen Demand(COD)	1	-	-	-	-	-	
14	Magnetic Stirrer with Hot Plate	2	-	-	-	-	-	
15	Flame Photometer	1	-	-	-	-	-	
16	Colorimeter	2	-	-	-	-	-	
17	Turbidimeter	1	-	-	-	-	-	
18	Safety Cabinet	1						
19	Ultrapure water Purification System	1						

