

**Civil Engineering Department**

Instruments / Machines to be maintained / calibrated

**Estimated**

Sl. No	Item/Equipment	Make/Model	Name of the test	Nature of job	Quantity	Rate (INR)	Approx. Cost of maintenance / calibration (INR)
1	BOD Incubator	York Scientific Industries	Incubation of water sample for bacteria determination	Overhauling and calibration	1	20000.00	20000.00
2	Motorsed Concrete Compression testing machine	Associated Instrument Manufacturers (India) Pvt. Ltd. CAT No. AIM 308 SL No. 87245	Determination of compressive strength of concrete cube	Overhauling and calibration	1	15000.00	15000.00
3	Manual Hydraulic Compression testing machine	Lawrence & Mayo SL No. 10733 CAT No. LM-17-517	Determination of compressive strength of concrete cube	Overhauling and calibration	1	15000.00	15000.00
4	Bernoulli's theorem apparatus	DD Engineering Industries	Verification of Bernoulli's theorem	Overhauling	1	5000.00	5000.00
5	Venturimeter		Determination of Co-efficient of discharge	Overhauling	1	5000.00	5000.00
6	Orificemeter		Determination of Co-efficient of discharge	Overhauling	1	5000.00	5000.00
7	Flow through orifice		Determination of Co-efficient of contraction and velocity	Overhauling	1	5000.00	5000.00
8	V-notch apparatus		Measurement of flow	Overhauling	1	5000.00	5000.00
9	Direct Shear test apparatus	Lawrence & Mayo SL No. 88386 CAT No. LM-17-231	Determination of shear strength of soil	Overhauling and calibration	1	15000.00	15000.00
10	Bitumen Ductility test apparatus	Enkay Enterprise SL No. 93025	Determination of ductility of bitumen.	Overhauling and calibration	1	15000.00	15000.00
11	Levelling Machine (Dumpy Level)	NI	Determination of levels of ground	Overhauling and calibration	4	10000.00	40000.00
12	Theodolite	NI	Determination of horizontal and vertical angles	Overhauling and calibration	3	15000.00	45000.00
		Lawrence and Mayo	Determination of horizontal and vertical angles	Overhauling and calibration	2	15000.00	30000.00
13	Second Theodolite	Sokkia TM6 SL No. 72593	Determination of horizontal and vertical angles	Overhauling and calibration	1	40000.00	40000.00
14	Marshal stability test	Lawrence & Mayo SL No. 22543 CAT No. LM-17-701	Stability test of bitumen	Overhauling and calibration	1	10000.00	10000.00
<b>Total =</b>						<b>270000.00</b>	

HOD  
22/11/18

Lecturer in Civil Engineering  
14.08.18

Dr. Debpranab  
14/8/18

PRINCIPAL  
Raiganj Polytechnic