

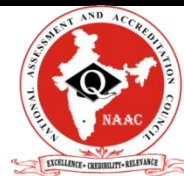


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Metallurgy Lab

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1.	Single Disc Polishing machine	01	11,900	11,900
2.	Belt Grinder for Specimen Preparation	01	12,500	12,500
3.	Binocular metallurgical microscope	01	24,500	24,500
4.	Muffle furnace with digital controller	01	19,900	19,900
5.	Jominy-End Quench Apparatus	01	15,900	15,900
6.	Standard Samples (Ferrous & non-ferrous metals)	01	9,800	9,800
7.	Emery paper Set 12 No.s Each to cover Ferrous and Non Ferrous Metals and 6 No. Polishing Clothes	01	9,000	9,000
8.	Polishing Al & Etchants (Chemicals for Ferrous & Non Ferrous Metals)	01	9,500	9,500
			TOTAL	1,13,000

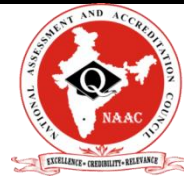


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Production Technology Lab

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1.	Spot welding machine	01	29,500	29,500
2.	TIG welding Equipment	01	36,000	36,000
3.	Gas Welding Equipment	01	8,500	8,500
4.	Arc welding machine	01	16640	16,640
5.	6Feet Wood Turning lathe machine	01	16,500	16,500
6.	Mechanical press	01	25,500	25,500
7.	Injection moulding machine	01	24,000	24,000
8.	Blow moulding machine with Air Compressor	01	31,000	31,000
9.	Air Compressor	01	12,500	12,500
10.	Moulding boxes for foundry	08	950	7600
11.		01	3,000	3,000
12.		01	400	400
13.	Aluminum melting furnace	01		
			TOTAL	2,11,140

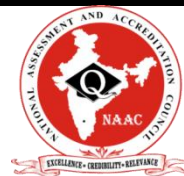


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Thermal Engineering Lab

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1.	Valve timing diagram 4-Stroke Diesel Engine	01	25,000	25,000
2.	Port timing diagram Petrol engine	01	20,000	20,000
3.	Single cylinder four stroke 5HP Vertical diesel engine Test Rig	01	1,25,000	1,25,000
4.	Reciprocating Air Compressor Test Rig	01	1,15,000	1,15,000
5.	Babcock & Wilcox Boiler & Cochran Boiler Model	01	30,000	30,000
6.	Assembly and Disassembly of Diesel Engine	01	12,500	12,500
7.	Variable Compression Ratio Petrol Engine Test Rig	01	1,85,714	1,85,714
8.	Four stroke Four Cylinder petrol engine	01	95,000	95,000
			TOTAL	6,08,214

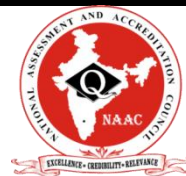


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Machine Tools Lab

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1.	Lathe Machine(3 Jaw Chuck)	02	50,180	1,00,360
2.	Lathe Machine(4 Jaw Chuck)	02	50,662	1,01,325
3.	Milling Machine	01	62,102	62,102
4.	Pillar Drilling Machine	01	19,300	19,300
5.	Shaper	01	73,340	73,340
6.	Slotting Machine	01	57,900	57,900
7.	Cylindrical Grinding Machine	01	1,15,800	1,15,800
8.	Bench Tool Grinding Machine	01	1,976	1,976
9.	Vernier Calipers 0-150mm	02	900	1800
10.	Micro meter 0-25mm	01	400	400
11.	Marking Block	02	200	400
12.	Adjustable Marking Block	01	280	280
13.	Boring Bar 3/8" with Allen key	02	385	770
14.	Boring Bar 1/4 th with Allen key	02	160	320
15.	Dead centers (Diamond Nose)	04	300	1200
16.	Half centre	01	400	400
17.	Revolving Centre	01	1200	1200
18.	Centre Counter drills 6mm	01	200	200
19.	Centre Counter drills 8mm	01	200	200
20.	Parting tool with Holder 2/8 th	01	500	500
21.	Lathe Tool Holders 3/8 th with spanner	04	225	900
22.	6 inch angle plate	01	1200	1200
23.	Depth gage	01	100	100
24.	Pitch gage	01	90	90
25.	M/C Reamers 12mm	01	700	700
26.	M/C Reamers 16mm	01	900	900
27.	C-Clamp 6 inch	01	180	180
28.	C-Clamp 3 inch	01	130	130
29.	Tap Sets 1/4 th inch	01	50	50
30.	Tap Sets 3/8 th inch	01	90	90
31.	Tap Sets 1/2 inch	01	120	120
32.	Knurling Tools Diamond	03	189	567
33.	Knurling Tools Straight	03	155	465
34.	Lathe Cutting Tools 3/8 X6inch	04	315	1260
35.	Lathe Cutting Tools 1/4 X4inch	02	78	232
36.	Lathe Cutting Tools 5/16 X4inch	01	160	160



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37.	Steady Rest	01	1158	1158
38.	Angle Gauge	01	150	150
39.	Tap Handles ½ inch	01	128	128
40.	Tap Handles ¾ inch	01	178	178
41.	Drill Check with key	01	550	550
42.	Oil Cane	01	110	110
43.	Drill Socket 2-3	01	99	99
44.	Drill Socket 1-2	01	60	60
45.	Diamond tool bits Triangle	02	40	80
46.	Diamond tool bits Square	02	50	100
			TOTAL	5,49,530

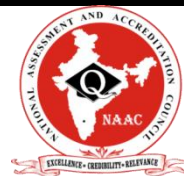


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Engineering Work Shop

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1.	Nylon Hammers	15	83.2	1248
2.	Chipping Hammers	04	62.25	249
3.	Sldge 10 lb Hammers	02	301.5	603
4.	Sledge 4 lb Hammers	02	147.5	295
5.	Ball Peen Hammers	30	52	1560
6.	Hammers 800gms	02	222.5	445
7.	Hammers 110gms	06	81	486
8.	Hammers 600gms	10	185.7	1857
9.	Screw drivers 823	15	33.88	500
10.	Screw drivers 1 Kit	01	159	159
11.	Screw drivers 930	02	144.5	289
12.	Screw drivers 829	01	79	79
13.	Screw Augar	01	78	78
14.	Screw drivers 812	01	128	128
15.	Screw drivers 824	15	44.6	670
16.	Snips (cutters) 8"	02	83	166
17.	Snips (cutters) 12"	02	124.5	249
18.	Right bend cutter	02	249.5	499
19.	Left bend cutter	02	249.5	499
20.	Flat Files 1Foot	15	72.8	1092
21.	Flat File 8"	15	52	780
22.	Round File 8"	17	45.8	780
23.	Half Round File 8"	15	93.6	1404
24.	Triangular File 8"	15	62.4	936
25.	Square file 8"	13	84	1092
26.	Wooden Rasp File	10	149.6	1496
27.	Firmer Chisels	44	31.9	1404
28.	Marin Chisel	15	62.4	936
29.	Bevel Edge Chisel	15	52	780
30.	Dove Tail Chisel	14	50.14	702
31.	T- Chisel	15	42	630
32.	Nose pliers	15	135.2	2028
33.	Cutting pliers 6"	08	52	416
34.	Cutting pliers 8"	04	62.25	249
35.	Bench grinding machine	01	1976	1976
36.	Hammer drilling machine	01	3536	3536
37.	Hand drilling machine	01	1662	1664
38.	Vernier height gauge	01	1872	1872

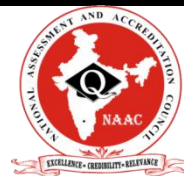


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39.	Hand blower with motor	01	1248	1248
40.	Hand grinding machine	01	1976	1976
41.	Iron cutting machine	01	7280	7280
42.	Hand drilling machine	01	1664	1664
43.	Measurement tape	01	135	135
44.	Steel rules	60	24.95	1497
45.	Testers 813 Taparia	15	32.4	486
46.	Testers General Taparia	15	31.2	468
47.	Carpentry vice	12	676	8112
48.	Combination Pliers 6"	33	52	1716
49.	Adjustable wrench	01	124	124.80
50.	Wire brushers	02	36	72
51.	Hack saw frames	15	49.86	748
52.	Drill bit set 6- 16 mm Set	01	707	707
53.	Spanner box set	01	2288	2288
54.	Try square 6"	15	41.6	624
55.	Wire cutters	15	145.6	2184
56.	Leather wood gloves	10	41.6	416
57.	Welding holders	03	166.33	499
58.	Glasses (welding)	09	16.22	146
59.	Goggles (weld)	03	46.6	140
60.	Jack plane	15	364	5460
61.	Hand saws	15	72.8	1092
62.	Dot punches	15	14.53	218
63.	Alenkey set	01	130	130
64.	Drill bit set 1-5 to 30 mm	02	707	1414
65.	Try Square 100mm	15	112.26	1684
66.	Anvils 25 kg	04	1456	5824
67.	Sweage block	01	2600	2600
68.	Face shield	03	186.6	561
69.	Copper cable	10	182	1820
70.	Bench vice	30	1019.2	30576
71.	Scribers 6"	15	52	780
72.	V block	01	936	936
73.	Wooden mallet	15	62.4	936
74.	Spanners Flat Set	01	268	268
75.	Spanners Ring Set	01	499	499
76.	Out Side Calipers	05	24.8	124
77.	Inside Calipers	06	24.8	149
78.	Sledge hammer 4lb	03	145	435
79.	Sledge hammer 8lb	03	290	870
80.	Smooth Files	13	100	1300



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81.	Flat Tongs	05	120	600
82.	Round Tongs	05	120	600
83.	Pick-up Tongs	05	120	600
84.	Straight Snips	03	270	810
85.	Bend Snips	03	270	810
86.	Claw Hammers	06	100	600
87.	Straight Peen Hammer	06	100	600
88.	Blower	01	2627	2627
			TOTAL	1,31,286

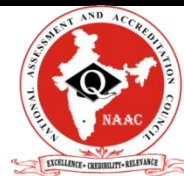


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Heat Transfer Lab

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1.	Heat Transfer through composite walls	01	30,000	30,000
2.	Thermal Conductivity of Insulating Powder	01	27,000	27,000
3.	Heat transfer through Lagged Pipe	01	31,000	31,000
4.	Thermal Conductivity of Metal Bar	01	29,000	29,000
5.	Heat Transfer from Pin-Fin Apparatus	01	32,000	32,000
6.	Heat Transfer through Forced Convection Apparatus	01	32,000	32,000
7.	Heat Transfer through Natural Convection Apparatus	01	26,000	26,000
8.	Parallel flow Counter Flow Heat Exchanger Apparatus	01	31,000	31,000
9.	Emissivity Measurement Apparatus	01	28,000	28,000
10.	Stefen-Bolzmen Apparatus	01	26,000	26,000
11.	Condensation in Drop wise Film wise form Apparatus	01	50,000	50,000
12.	Critical Heat Flux Apparatus	01	34,000	34,000
13.	Heat Pipe Apparatus	01	34,000	34,000
14.	Two-Phase Heat Transfer Apparatus	01	36,000	36,000
			TOTAL	4,46,000

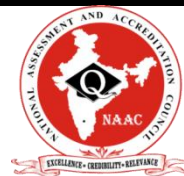


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Instrumentation Lab

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1	Pressure Gauge of Range 10kg/cm ²	01	18,000	18,000
2	Temperature Transducer	01	18,700	18,700
3	LVDT of Range +/- 10mm	01	18,700	18,700
4	Strain Gauge	01	18,700	18,700
5	Temperature Transducer of J,K,T type Thermocouples	01	18,700	18,700
6	Capacitive Transducers	01	21,200	21,200
7	Resistance Temperature Detector	01	17,500	17,500
			TOTAL	1,31,500

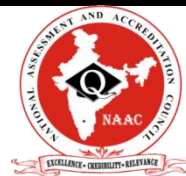


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Metrology Lab

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1.	Vernier Calipers 0-150mm x 0.02mm	02	1,600	3,200
2.	Digital Outside Micrometer with (Mechanical Digital Counter) 0-25mm x 0.01m m	01	2,700	2,700
3.	Inside Micrometer 5-30mm	01	3,750	3,750
4.	Gear tooth Verier 1-26 module	01	6,750	6,750
5.	Bevel Protractor	01	6,300	6,300
6.	Plunger Dial 0-10mm X .01mm	02	1,450	2,900
7.	Prcesion Level 150mmX0.02mm	01	6,750	6,750
8.	Slip Gauge Set 87 pieces	01	28,000	28,000
9.	Sin Bars 250mm(Indian Make)	01	5,500	5,500
10	Filler Gauge 0.03-1mm	02	850	1,700
11	Spring Calipers (divider)	02	180	360
12	Magnetic Stand without Dial	02	1450	2,900
13	“Luthres” Granite Surface Plate 630X630mm Grade 0 with MS Fabricated Stand with Levelling Screw	01	12,700	12,700
14	Tool Makers Microscope “Metzer”	01	41,000	41,000
			TOTAL	1,24,510

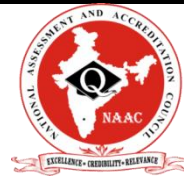


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AUTO CAD Lab

S.No	Name of the Software	No. Available	Each Cost in Rs	Total Cost
1.	Auto Cad	30	Free	Free

Simulation Lab

S.No	Name of the Software	No. Available	Each Cost in Rs	Total Cost
1.	ANSYS 14.5 32/64 bit	05 users	2,31,000	2,31,000



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Theory of machines lab

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1.	Whirling speed of shaft apparatus	01	20,000	20,000
2.	Governor experimental setup	01	20,000	20,000
3.	Motorized gyroscope	01	20,000	20,000
4.	Damped and undamped vibration setup	01	40,000	40,000
5.	Static and dynamic balancing of rotating bodies	01	20,000	20,000
6.	Moment of inertia of flywheel	01	15,000	15,000
7.	Cam follower system	01	18,000	18,000
8.	Single slider crank mechanism	01	10,000	10,000
9.	Pulley and belt setup	01	15,000	15,000
10.	Simple and compound screw jack	01	10,000	10,000
11.	Gears	01	12,000	12,000
			TOTAL	2,00,000



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MECHATRONICS LAB

S.No	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1	TRANSUDUCER TRAINING KIT	01	29200	29200
2	PLC main control unit	01	42000	42000
3	Traffic control module	01	6500	6500
4	Water level controller module	01	14000	14000
5	Lift module, replica of original lift	01	21000	21000
6	Auto sim simulation software	01	25000	25000
			TOTAL	1,377,00