

**DEPARTMENT OF MECHANICAL ENGINEERING
LAB WISE EQUIPMENT COST**

TOTAL COST OF M.E LABS :: Rs.02,53,56,237.00

S.No	Name of the Laboratory	Total Cost (Rs.)
1.	CAD/CAM lab	92,59,375.00
2.	Engineering Mechanics Lab	2,53,500.00
3.	Fluid Mechanics & Hydraulic Machinery Lab	13,91,349.00
4.	Internal Combustion Engines Lab	38,48,185.00
5.	Manufacturing Technology Lab	5,58,899.00
6.	Material Science Lab	17,53,681.00
7.	Dynamics Lab	5,01,545.00
8.	Instrumentation lab	2,30,291.00
9.	Heat Transfer Lab	7,48,525.00
10.	Metrology & Machine Tools Lab	13,72,825.00
11.	Thermal Engineering Lab	5,52,703.00
12.	Engineering Workshop	16,28,224.00
13.	Research & Development Lab / Incubation Centre	32,57,135.00
Total		2,53,56,237.00

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CAD/ CAM LAB

CAD & CAM SOFTWARES			
S.No	Name of the Software	No. of Users	Price Rs.
1.	Auto CAD 2004 Auto CAD[2014] AICTE Downloaded	1	38,480.00
2.	Auto desk Mechanical Educational solution set	11	6,59,720.00
3.	Pro-Engineer (Wild fire 3.0)	50	4,82,000.00
4.	Pro-Engineer (Wild fire 5.0) PERPETUAL	50	3,80,000.00
5.	Ansys 7.0 <i>Upgrade to</i> Ansys 11.0	05	1,20,000.00 44,500.00
6.	Ansys 17.0 PERPETUAL	50	5,00,000.00
7.	Edge CAM 12.5 <i>Upgrade to</i> Edge CAM 2014 R2	05	93,600.00 50,966.00
8.	Cut viewer TURN	10	96,390.00
9.	Cut viewer Mill	10	
10.	Den ford Machining simulation software (Off-line)	06	75,000.00
11.	Workspace Software	01	1,10,000.00
		TOTAL	26,50,656.00

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CNC MACHINES

1.	CNC XL TURN With STD. Accessories	01	3,36,000.00
2.	CNC XL MILL With STD. Accessories	01	6,76,362.00
3.	6-Axis Aristo ROBOT	01	4,14,550.00
4.	AIR COMPRESSOR-MULTISTAGE	01	20,402.00
5.	Flash forge Dual Extruder 3D Printer	01	1,00,225.00
6.	3D Pen	01	3,500.00
TOTAL			15,51,039.00

DEPARTMENT OF MECHANICAL ENGINEERING
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COMPUTERS & ACCESSORIES:

S.NO	Computer Configuration	Qty	Cost Rs.
1.	IBM- THINK CENTRE COMPUTER: <ul style="list-style-type: none"> ➤ CPU- Intel Pentium 4, 3 GHz ➤ RAM- 512MB ➤ Hard Disk – 80 GB ➤ 107 Key Board, Optical Mouse ➤ 15" Color Monitor 	33	10,06,500.00
2.	HP COMPUTERS: <ul style="list-style-type: none"> ➤ CPU- Intel Pentium 4, 3 GHz ➤ RAM- 512MB ➤ Hard Disk – 80 GB ➤ 107 Key Board, Optical Mouse ➤ 15" Color Monitor 	02	56,600.00
3.	IBM/ LENOVO THICK CENTRE COMPUTERS: <ul style="list-style-type: none"> ➤ CPU- Intel Pentium 4, 3 GHz ➤ RAM- 512MB ➤ Hard Disk – 80 GB ➤ 107 Key Board, Optical Mouse ➤ 15" Color Monitor 	10	2,64,490.00
4.	DELL COMPUTERS: <ul style="list-style-type: none"> ➤ CPU- Intel – Dual Core processor,3 GHz ➤ RAM- 2GB ➤ Hard Disk – 500 GB ➤ 107 Key Board, Optical Mouse ➤ 17" LCD Color Monitors 	25	6,67,500.00
5.	DELL COMPUTERS: <ul style="list-style-type: none"> ➤ Optiplex-3020-Intell core i5 4th gen. 4590 ➤ Processor 3.7GHz and 6MB Cache ➤ 4GB DDR3 1600MHz ➤ RAM (1x4GB), 500GB ➤ SATA HDD 7200RPM ➤ 2GB Graphics- ATI/AMD RADEON card ➤ DELL 18.5" LED WTFT Monitor. 	60	26,51,100.00
6.	SERVER: <ul style="list-style-type: none"> ➤ Processor: IBM XSeries-3500, 3 GHz ➤ RAM- 7GB ➤ Hard Disk-280GB 	01	3,40,000.00
7.	55" M.I 4K LED T.V	01	41,000.00
8.	EPSON DLP	01	30,490.00
TOTAL			50,57,680.00

**DEPARTMENT OF MECHANICAL ENGINEERING
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ENGINEERING MECHANICS LAB

S. No	Name of the Equipment/ Software	Qty.	Cost. Rs	Date /Year of Purchase
1	POLYGON LAW OF FORCES APPARATUS	01	17,500.00	04.12.2015
2	VERIFICATION OF LAMI'S THEOREM	01	18,500.00	04.12.2015
3	SIMPLY SUPPORTED BEAM APPARATUS	01	15,500.00	04.12.2015
4	INCLINED PLANE SET-UP	01	15,500.00	04.12.2015
5	BELL CRANK LEVER APPARATUS	01	10,500.00	04.12.2015
6	MOMENT OF INERTIA OF FLYWHEEL SET-UP	01	18,500.00	04.12.2015
7	SIMPLE SCREW JACK SET-UP	01	15,500.00	04.12.2015
8	SIMPLE WHEEL AND AXIAL SET-UP	01	8,500.00	04.12.2015
9	SIMPLE WHEEL & DIFFERENTIAL AXEL SET-UP	01	12,500.00	04.12.2015
10	WORM & WORM WHEEL SET-UP	01	18,000.00	04.12.2015
11	Resultant of a concurrent force set-up	01	28,500.00	04.12.2015
12	Co-efficient of friction for different Materials set-up	01	45,500.00	04.12.2015
13	Resultant of a Coplaner force set-up	01	29,000.00	04.12.2015
Total			2,53,500.00	

**DEPARTMENT OF MECHANICAL ENGINEERING
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FLUID MECHANICS & HYDRAULIC MACHINERY LABORATORY

1.	MOUTH PIECE/ORIFICE APPARATUS	1	52,500.00
2.	BERNOULIES THEOREM APPARATUS	1	52,000.00
3.	IMPACT OF JET ON VANES APPARATUS	1	49,500.00
4.	TRIANGULAR/RECTANGULAR NOTCH APPARATUS	1	52,500.00
5.	VENTURI METER & ORIFICE METER APPARATUS	1	49,500.00
6.	FRICTION FACTOR APPARATUS (MAJOR LOSSES)	1	49,500.00
7.	PELTON WHEEL TEST RIG	1	1,25,000.00
8.	DIGITAL HAND TACHOMETER APPARATUS	1	3,250.00
9.	KAPLAN TURBINE TEST RIG	1	2,88,750.00
10.	FRANCIS TURBINE TEST RIG	1	2,08,580.00
11.	HYDRAULIC JUMP APPARATUS	1	1,24,950.00
12.	HYDRAULIC TILTING FLUME TEST RIG	1	4,89,982.00
13.	MULTISTAGE CENTRIFUGAL PUMP	1	46,777.00
14.	TURBINE FLOW METER APPARATUS	1	74,025.00
15.	MICRO-MANOMETER APPARATUS	1	51,975.00
16.	SINGLE STAGE CENTRIFUGAL PUMP TEST RIG	1	55,750.00
17.	RECIPROCATING PUMP APPARATUS	1	52,760.00
18.	LOSS OF HEAD DUE TO SUDDEN CONTRACTION &TURBINEFLOW METER APPARATUS	1	48,000.00
TOTAL			13,85,317.00

DEPARTMENT OF MECHANICAL ENGINEERING
LAB WISE EQUIPMENT COST

INTERNAL COMBUSTION ENGINES LAB

S. NO	BRIEF DESCRIPTION OF THE EQUIPMENT	QTY	COST IN Rs.
1.	COMPUTERIZED FOUR STROKE SINGLE CYLINDER KIRLOSKAR VCR MULTI FUEL RESEARCH ENGINE TEST RIG WITH EDDYCURRENT DYNAMOMETER.	1	9,56,250.00
2.	COMPUTERIZED FOUR STROKE MULTI CYLINDER MARUTHI PETROL ENGINE TEST RIG WITH HYDRAULIC DYNAMOMETER.	1	6,86,250.00
3.	FOUR STROKE SINGLE CYLINDER PETROL ENGINE TEST RIG WITH ELECTRICAL RESISTANCE BANK DYNAMOMETER.	1	1,53,430.00
4.	FOUR STROKE SIX CYLINDER TATA DIESEL ENGINE TEST RIG WITH MECHANICAL BRAKE DYNAMOMETER.	1	75,000.00
5.	COMPUTERIZED FOUR STROKE SINGLE CYLINDER KIRLOSKAR DIESEL ENGINE TEST RIG WITH EDDY CURRENT DYNAMOMETER.	1	4,85,490.00
6.	SMOKE METER(AVL) WITH DI-SPEED	1	1,64,298.00
7.	FIVE GAS ANALYZER (AVL)	1	2,48,357.00
8.	FOUR STROKE SINGLE CYLINDER KIRLOSKAR DIESEL ENGINE TEST RIG WITH MECHANICAL BRAKE DYNAMOMETER	1	1,04,000.00
9.	FOUR STROKE FOUR CYLINDER AMBASSADOR PETROL ENGINE TEST RIG WITH HYDRAULIC DYNAMOMETER (WITH GAS CONVERSION KIT)	1	1,38,560.00
10.	PIEZO SENSOR, LOAD SENSORS, ENCODERS	1	2,17,550.00
11.	MARUTI CRDI MULTI CYLINDER DIESEL ENGINE TEST RIG	1	5,90,000.00
12.	FOUR STROKE SINGLE CYLINDER DIESEL ENGINE CUT SECTION MODEL	01	15,000.00
13.	TWO STROKE SINGLE CYLINDER PETROL ENGINE CUT SECTION MODEL	01	14,000.00
TOTAL			38,48,185.00

**DEPARTMENT OF MECHANICAL ENGINEERING
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MANUFACTURING TECHNOLOGY LAB

S. NO	BRIEF DESCRIPTION OF THE EQUIPMENT	QTY	COST IN Rs.
1.	INJECTION MOLDING MACHINE [½ oz]	1	9,000.00
2.	50GM BOTTLE DIE FOR BLOW MOLDING MACHINE	1	10,300.00
3.	BOTTLE CAP DIE FOR INJECTION MOLDING MACHINE	1	4,100.00
4.	1oz BLOW MOLDING MACHINE	1	10,150.00
5.	½ HP AIR COMPRESSOR	1	7,250.00
6.	3/8 to 1 INCH HYDRAULIC PIPE BENDING MACHINE	1	8,500.00
7.	8KVA SPOT WELDING MACHINE	1	22,700.00
8.	HYDRAULIC PRESS (6.5 TON)	1	75,720.00
9.	TIG WELDING SET, AC-DC	1	37,900.00
10.	SAND SIEVER	1	38,400.00
11.	SAND RAMMER	1	20,900.00
12.	PERMEABILITY TESTER	1	31,200.00
13.	UNIVERSAL SAND STRENGTH TESTING MACHINE	1	53,000.00
14.	MULTI PLAZA – 2500	1	1,76,800.00
15.	POWER HACKSAW MACHINE	1	22,000.00
16.	ARC WELDING MACHINE	1	17,615.00
17.	ACCESARIES		13,364.00
TOTAL			5,58,899.00

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MATERIAL SCIENCE LAB

S.NO	NAME OF THE EQUIPMENT	QTY.	Cost (Rs.)
1.	Specimen Cut-off Machine	01	24,000.00
2.	Heat Treatment Furnace	01	13,000.00
3.	Polishing stand with bench	02	7200.00
4.	Microscope (Model: Metz-57)	02	25,000.00
5.	Metzer Projection Microscope	01	28,000.00
6.	Inverted Trinocular Metallurgical Microscope [Low cost series]	01	18,000.00
7.	Metzer-Binocular Metallurgical Microscope	05	96,500.00
8.	Double Disk Polishing Machine	01	16,600.00
9.	Hot Air-Drier	01	550.00
10.	Case Carburizing Box	01	3500.00
11.	Linisher	01	9,000.00
12.	Specimen mounting Press	01	10,500.00
13.	Hydraulic Mounting press [3T]	01	15,000.00
14.	Jomny End quench Apparatus	01	24,000.00
15.	Magnetic Error detector	01	28,625.00
16.	Standard Specimen	54	18,900.00
17.	Specimen leveler	01	1200.00
18.	Voltage Regulator	03	1500.00
19.	LTV Metallurgical Microscope CMOS Camera 5MP	01	1,29,800.00
20.	Pin on disc friction wear test rig	01	3,22,031.00
21.	Comprised Universal Tensile Testing Machine[05 ton]	01	4,00,000.00
22.	Hydraulic Press [50 ton]	01	3,80,000.00
23.	Digital Ijod/Charpy Impact Tester	01	1,37,000.00
24.	V Notch Cutter	01	43,775.00
TOTAL			17,53,681.00

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DYNAMICS LAB

S.No	DESCRIPTION OF THE EQUIPMENT	QTY	PROCUREMENT COST IN Rs.
1.	Damped Spring –Mass Vibrating System	01	28,111.00
2.	Steady State Amplitude Of A Forced Vibrating System	01	26,863.00
3.	Static Balancing Using Steel Balls	01	15,470.00
4.	Static & Dynamic Balancing Of Rotary Masses	02	36,948.00
5.	Field Balancing Of The Thin Rotor Using Vibration Pick-Up	01	38,719.00
6.	Motorized Gyroscope	02	53,884.00
7.	Whirling of Shaft Apparatus	01	28,500.00
8.	CAM Analysis Apparatus	01	27,000.00
9.	Universal Governor Apparatus	01	28,750.00
10.	Universal VIB-LAB	01	70,500.00
11.	Epi-Cyclic Gear Train Holding Torque Apparatus	01	65,000.00
12.	Turn Table Apparatus	01	35,500.00
13.	Kinematics of 4-Bar Mechanism i. Slider Crank Mechanism ii. Oscillating Cylinder Mechanism iii. Whitworth Mechanism iv. 4-Bar link Mechanism	1set	21,750.00
14.	Kinematics of Gear Trains i. Single Stage Spur gear with intermediate Gear ii. Differential Gear	1set	11,000.00
15.	Kinematics of Joints i. Knuckle joint ii. Gib& Cotter joint iii. Sleeve & Cotter Joint iv. Socket & spigot joint	1set	13,550.00
TOTAL			05,01,545.00

**DEPARTMENT OF MECHANICAL ENGINEERING
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HEAT TRANSFER LAB

S.NO	DESCRIPTION OF THE EXPERIMENT	QTY.	PROCUERMENT COST IN Rs.
1.	Stefen Boltzman Constant Apparatus	02	48,350.00
2.	Heat Transfer Through Composite Wall Apparatus	02	68,600.00
3.	Surface Heat Transfer Coefficient By Naturl Convection Apparatus	02	59,000.00
4.	Thermal Conductivity Of Insulating Powder Apparatus	02	60,900.00
5.	Heat Transfer Through Heat Exchanger Apparatus	02	60,800.00
6.	Emissivity Of The Given Test Plate Apparatus	02	61,700.00
7.	Het Transfer Through Pin Fin Apparatus Pparatus	02	64,700.00
8.	Critical Heat Flux Apparatus	02	60,125.00
9.	Drop Wise And Film Wise Condensation Apparatus	02	85,250.00
10.	Heat Pipe Demonstration Apparatus	02	63,800.00
11.	Thermal Conductivity Of Metal Rod Apparatus	02	59,150.00
12.	Heat Transfer Through Lagged Pipe Apparatus	01	56,150.00
		TOTAL	7,48,525.00

DEPARTMENT OF MECHANICAL ENGINEERING
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INSTRUMENTATION LAB

S.NO	Brief description of the equipment	Qty.	Procurement Cost in Rs.
1.	PRESSURE MEASUREMENT TRAINER	4	47,551.50
2.	TRAINER MODULE FOR LVDT	3	18,000.00
3.	LOAD(FORCE) MEASUREMNT TRAINER	1	6,500.00
4.	STRAIN MEASUREMENT TRAINER MODULE	3	18,900.00
5.	MEASUREMENT OF TEMPERATURE SETUP(THERMOCOUPLE,RTD,THERMISTOR)	1	4,800.00
6.	MEASUREMENT OF TEMPERATURE (RTD)	2	13,000.00
7.	SENSORS OF RTD,THERMOCOUPLE,THERMISTOR EACH	3	1,500.00
8.	F-UITM7-SPEED MEASUREMENT TRAINER MODULE TO MEASURE SPEED BY MAGNETIC AND PHOTOREFLECTIVE	1	7,260.00
9.	F-STUDY AND CALIBRATION OF MC LEOD GAUGE WITH COMPRESSOR	1	10,500.00
10.	F-UITM11L-CAPACITANCE TRAINER MODULE (LINEAR DISPLACEMENT)	3	25,587.50
11.	F-UITM13-ROTAMETER TRAINER TO MEASURE FLOW	1	18,480.00
12.	F- STUDY OF ANEMOMETER	1	19,250.00
13.	F-VIBRATION ANALYSER	1	29,837.50
14.	F-UITM11A – CAPACITANCE TRAINER MODULE (ANGULAR DISPLACEMENT)	1	9,124.50
TOTAL			2,30,291.00

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MACHINE TOOLS LAB

S.NO	Brief description of the equipment	Qty.	Procurement Cost in Rs.
1.	UNIVERSAL GEAR HEAD MILLING MACHINE[EVEREST]	1	82,170.00
2.	AKAR BRAND – SHAPING MACHINE	1	45,320.00
3.	KINNY BRAND- SLOTTING MACHINE	1	32,945.00
4.	JAYSHREE BRAND LATHE MACHINE	2	60,700.00
5.	ANIL BRAND LATHE MACHINE (Bed No's: 2778,2779)	2	1,56,491.00
6.	ANIL BRAND LATHE MACHINE, (Bed Nos:2776,2777)	2	1,43,937.00
7.	ANIL BRAND LATHE MACHINE (Bed No: 2775)	1	83,457.00
8.	ANIL BRAND LATHE MACHINE (Bed No: 2780,)	1	62,804.00
9.	UNI-TECH ALL GEARED LATHE MACHINE	01	1,05,000.00
10.	UNI-TECH LATHE MACHINES	02	1,34,400.00
11.	TOOL & CUTTER GRINDER	1	1,62,085.00
12.	SMT.BRAND RADIAL DRILLING MACHINE	1	1,27,211.00
Total Cost			11,96,520.00

**DEPARTMENT OF MECHANICAL ENGINEERING
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METOLOGY LAB

S. NO	NAME OF THE EQUIPMENT	QTY.	Procurement Cost in Rs.
1.	OUT SIDE MICROMETER (0-25 MM)	2	1,900.00
2.	OUT SIDE MICROMETER (25-50 MM)	1	2,000.0.
3.	OUT SIDE MICROMETER (50-75 MM)	1	2,300.00
4.	OUT SIDE MICROMETER (75-100 MM)	1	2,450.00
5.	DEPTH MICROMETER (0-75 MM)	1	4,450.00
6.	DEPTH MICROMETER (0-100 MM)	1	4,800.00
7.	VERNIER CALIPER (0-150MM)	1	2,000.00
8.	VERNIER CALIPER (0-200MM)	1	2,400.00
9.	DIGITAL VERNIER CALIPER	1	1,580.00
10.	SINE BAR 150MM	1	2,650.00
11.	BEVEL PROTRACTOR (6"X12")	1	3,705.00
12.	TAPER RING GAUGE (MT1)	1	4,895.00
13.	TAPER PLUG GAUGE (MT2)	1	3,680.00
14.	TAPER PLUG GAUGE (MT3)	1	3,680.00
15.	GEAR TOOTH CALIPER	1	6,100.00
16.	SURFACE PLATE C.I (300X300)	1	1,794.00
17.	SURFACE PLATE C.I (600X600)	1	5,000.00
18.	STRAIGHT EDGE C.I (300X40X5MM)	1	1,620.00
19.	FEELAR GAUGE (6"X28)	1SET	2,500.00
20.	SLIP GAUGE BOX SET OF 83 PIECES	2 NOS	10,500.00
21.	DIAL GAUGE (0-10MM)	1	2,860.00
22.	DIAL GAUGE (0-10MM) WITH STAND	1	5,700.00
23.	SPRIT LEVEL INDICATOR	01	500.00
24.	BORED CYLINDRICAL WORK PIECE	01	750.00
25.	GO-NO GO RING GUAGE (12MM)	01	1,640.00
26.	GO-NO GO RING GUAGE (10MM)	01	525.00
27.	GO-NO GO RING GUAGE (11MM)	01	525.00
28.	PLAIN PLUG GUAGE (12MM)	01	2,600.00
29.	PLAIN PLUG GUAGE (10MM)	01	250.00
30.	PROFILE PROJECTOR	01	51,571.00
31.	HIGHT GUAGE	01	3,000.00
32.	STEEL V-BLOCKS (50X40X40MM)	01	9,500.00
33.	STEEL V-BLOCKS (80X63X63MM)	01	1,800.00
34.	SCREW THREAD MICROMETER	01	18,300.00
35.	CYLINDER BORE GUAGE	01	6,200.00
36.	THREAD GAUGE (BRITISH & METRIC)	04	80.00
37.	ANGLE PLATE	01	2,500.00
TOTAL			1,76,305.00

DEPARTMENT OF MECHANICAL ENGINEERING
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THERMAL ENGINEERING LAB

S. NO	BRIEF DESCRIPTION OF THE EQUIPMENT	QTY	PROCUREMENT COST IN Rs.
1.	TWO STAGE RECIPROCATING AIR COMPRESSOR TEST RIG	1	61,962.00
2.	AIR CONDITIONING TEST RIG/TUTOR	1	75,375.00
3.	REFRIGERATION TEST RIG/TUTOR	1	68,875.00
4.	DIGITAL BOMB CALORIMETER-DELUXE	2	80,022.00
5.	ROTARY AIR COMPRESSOR TEST RIG	1	1,31,888.00
6.	RED WOOD VISCOMETER	1	16,800.00
7.	SAY BOLT VISCOMETER	1	15,500.00
8.	ABLE FLASH & FIRE POINT APPARATUS	1	14,600.00
9.	CARBON RESIDUE APPARATUS	1	8,400.00
10.	CLOUD & POINT APPARATUS.	1	8,400.00
11.	JUNKERS GAS CALORIMETER	1	40,881.00
12.	CLEVELAND FLASH & FIRE POINT APPARATUS	1	14,600.00
13.	ENGLER VISCOMETER	1	15,400.00
TOTAL			5,52,703.00

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ENGINEERING WORK SHOP

CARPENTRY TRADE			
S. NO	NAME OF THE JOB	NO. OF SETUPS	NO. OF STUDENTS PER SETUP
1	CORNER LAP JOINT	16	01
2	T-LAP JOINT	16	01
3	LAP DOVETAIL JOINT	16	01
4	MORTISE & TENNON JOINT	16	01
5	OPEN BRIDLE JOINT	16	01
6	WOOD TURNING LATHE	01	01
FITTING TRADE			
S. NO	NAME OF THE JOB	NO. OF SETUPS	NO. OF STUDENTS PER SETUP
1	SQUARE FIT	16	01
2	V -FIT	16	01
3	DOVETAIL FIT	16	01
4	STEPPED FIT	16	01
5	HALF ROUND FIT	16	01
TIN SMITHY TRADE			
S. NO	NAME OF THE JOB	NO. OF SETUPS	NO. OF STUDENTS PER SETUP
1	CYLINDRICAL PIPE	10	01
2	RECTANGULAR TRAY	10	01
3	FUNNEL	10	01
4	DUST PAN	10	01
5	INCLINED CYLINDRICAL PIPE	10	01
HOUSE WIRING TRADE			
S. NO	NAME OF THE JOB	NO. OF SETUPS	NO. OF STUDENTS PER SETUP
1	ONE LAMP CONTROLLED BY ONEWAY SWITCH	12	01
2	SERIES CONNECTION	12	01
3	PARALLEL CONNECTION	12	01
4	STAIR CASE CONNECTION	12	01
5	TUBE LIGHT CONNECTION	12	01
WELDING TRADE			
S. NO	NAME OF THE JOB	NO. OF SETUPS	NO. OF STUDENTS PER SETUP
1	ARC WELDING LAYER PRACTICE	02	01
2	SINGLE V-BUTT JOINT	02	01
3	LAP JOINT	02	01
4	T-JOINT	02	01
5	CORNER JOINT	02	01
SOLDERING TRADE			
S. NO	NAME OF THE JOB	NO. OF SETUPS	NO. OF STUDENTS PER SETUP
1	SOLDERING & DESOLDERING PRACTICE	05	01
2	SERIES CIRCUIT	05	01
3	PARALLEL CIRCUIT	05	01
4	SERIES & PARALLEL	05	01
TOTAL			8,96,176.00

**DEPARTMENT OF MECHANICAL ENGINEERING
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BOSCH POWER TOOLS

S. NO	NAME OF POWER TOOL	QTY.	Cost.
1.	HIGH SPEED STRAIGHT GRINDER	1	7,32,048.00
2.	HIGH TORQUE DRILL MACHINE [13mm]	1	
3.	MINI ANGLE GRINDER	5	
4.	NIBBLER - 500 WATTS	1	
5.	JIG SAW, GST - 135 BCE	2	
6.	PLANNER PROFESSIONAL - 710 WATTS	5	
7.	HIGH FINISH ROUTER - 900 WATTS	1	
8.	ECCENTRIC SANDER - 150 MM - 340 WATTS	1	
9.	HIGH SPEED GRINDER/CUTTER	1	
10.	CIRCULAR SAW, GKS - 190	4	
11.	CUTT OF SAW, GCO - 2000	3	
12.	BOSCH HAND MAN KITS	4	
13.	METER SAW, GCM I - OM	1	
14.	SAWS, GSA - 110 - CE	3	
15.	STRAIGHT GRINDER, GGS -227 LC	2	
16.	SHEAR CUTTING MACHINE	3	
17.	DETECTORS, DMF - 10 ZOOM - 5080	3	
18.	IMPACT DRILL, GSB - 21-2 RE	2	
19.	IMPACT WRENCHES, GDS - 18 E	1	
	TOTAL	44	7,32,048.00

**DEPARTMENT OF MECHANICAL ENGINEERING
LAB WISE EQUIPMENT COST**

RESEARCH & DEVELOPMENT LAB / INCUBATION CENTER

S.No	Name of the Equipment	Qty	Cost [Rs.]
1.	Moisture Analyzer [01 No.]	01	4,41,000.00
2.	Data Logger	02	5,70,000.00
3.	Pyronometers (three wire)	01	78,750.00
4.	Pyronometers (eight wire)	01	2,09,225.00
5.	Pyrheliometer (eight wire)	01	2,09,225.00
6.	Sun Tracker	01	7,46,935.00
7.	High Temperature Circulating Pumps	02	65,000.00
8.	High Temperature air Blower	01	35,000.00
9.	Solar dryer cabin with conveyor belt	01	1,21,500.00
10.	ETC with heat pipe Solar Collectors	10	2,88,000.00
11.	Flow meter	01	40,500.00
12.	Onion slicer	01	27,000.00
13.	Soya Milk Plant – Capacity 50 liters/hr	01	4,25,000.00
		Total	32,57,135.00

**DEPARTMENT OF MECHANICAL ENGINEERING
LAB WISE EQUIPMENT COST**

LIST OF SOFTWARES:

1. Pro-E (Wild fire 5.0) : 50 users Perpetual
2. Auto CAD 2014 (AICTE Down load) : unlimited Users Perpetual
3. ANSYS 17.0 : 50 Users Perpetual
4. Edge CAM 2014-R2 : 05 Users Perpetual
5. Cut Viewer Turn : 10 Users Perpetual
6. Cut Viewer Mill : 10 Users Perpetual
7. Den ford Machining Simulation Software : 06 Users Perpetual