



Innovative Engineers' And Teachers' Education Society's
BHARAT COLLEGE OF ENGINEERING

(Approved by AICTE, DTE & Affiliated to University Of Mumbai)
 Opp. Gajanan Maharaj Temple, Kanhor, Badlapur (w). Tal. Ambernath,
 Dist. Thane-421503

Technology Personified

Ph No: 0251-2665001, 7666615915 Fax No: 0251-2665002

ACADEMIC YEAR 2022-23
Department of Mechanical Engineering
Lab Details

Name of the Lab: CAD & CAM LAB (Lab. No. - 16)

Lab Area: 66m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	Personal Computer	27/09/2011	30	7,80,750
2.	Printer	23/01/2012	1	6,300
3	3-D Printer	07/09/2015	1	35000
Total Price				8,22,050

Lab Incharge
B.C.O.E., Badlapur

HOD
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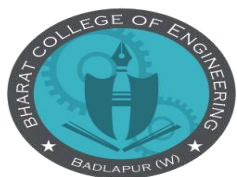
Name of the Lab: CAMD LAB (Lab. No. -15)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	Personal Computer	27/09/2011	24	7,80,750
2.	ANSYS Academic Teaching Introductory -Version 14.5	27/09/2011	1	2,40,000
Total Price				10,20,750

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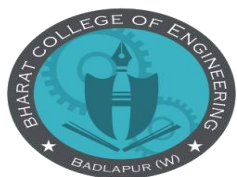
Name of the Lab: Fluid Mechanics & Machineries (Lab No. - 20)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	Verification of Bernouli's Theorem	24/10/2011	1	34,000
2.	Losses in Pipe Apparatus	24/10/2011	1	32,000
3.	Metric Centric Height of Ship Model	24/10/2011	1	19,000
4.	Reynolds Apparatus	24/10/2011	1	21,000
5.	Flow measurements by Venturi & Orifice	24/10/2011	1	38,000
6.	Pipe friction apparatus	24/10/2011	1	38,000
7.	Centrifugal Pump Test Rig	22/09/2011	1	68,000
8.	Reciprocating Pump Test Rig	22/09/2011	1	69,000
9.	Francis Turbine Test Rig	22/09/2011	1	1,15,000
10.	Pelton Turbine Test Rig	22/09/2011	1	3,99,000
11.	Cavitation Test Rig Apparatus	22/09/2011	1	72,000
Total Price				9,05,000

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 Lab Details**

Name of the Lab: Heat Transfer (Lab No. - 21)

Lab Area: 66 m²

Sr.No.	Name Of Equipment	DATE OF PURCHASE	Qty	COST(Rs.)
1)	Thermal Conductivity Of Metal Bar	27/9/2011	1	35,000
2)	Thermal Conductivity Of Liquid.	27/9/2011	1	42,000
3)	Composite Wall Apparatus.	27/9/2011	1	35,000
4)	Emissivity Measurement Apparatus.	27/9/2011	1	34,000
5)	Heat Transfer in Natural Convection	27/9/2011	1	29,000
6)	Heat Transfer in Forced Convection	27/9/2011	1	41,000
7)	Parallel and Counter flow Heat exchanger.	27/9/2011	1	38,000
8)	Heat Pipe Demonstrator Model	19/12/2014	1	33,750
9)	Unsteady state of Heat Transfer	19/12/2014	1	31,500
Total Price				3,19,250

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 Lab Details**

Name of the Lab: I.C.Engine (Lab No. - 19)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	Single cylinder Diesel Engine(5 hp)	27/09/2011	1	12,000
2.	Multi-cylinder Petrol Engine	27/09/2011	1	2,90,000
3.	2 Stroke Petrol engine Test Rig	27/09/2011	1	95,000
Total Price				3,97,000

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ESTD – (2010)

DTE Institute Code: EN3351



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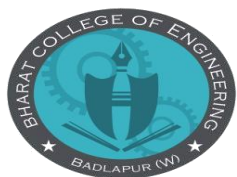
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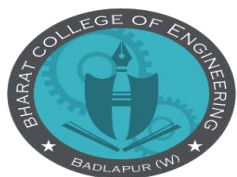
Name of the Lab: Mechatronics (Lab No. - 14)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	PLC Trainer Kit	27/09/2011	1	1,25,000
2.	Pneumatic Trainer	27/09/2011	1	1,18,000
3.	Hydraulic Trainer	27/09/2011	1	1,68,000
Total Cost				4,11,000

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Name of the Lab: Mechanical Measurement & Control System (Lab No. - 18)

Lab Area: 66m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	L.V.D.T. Demonstration kit	27/09/2011	1 Set	12,500
2.	Potentiometer as error of generator	27/09/2011	1 Set	4,500
3.	Dead weight Tester	27/09/2011	1Set	24,200
4	Vibration tester	27/09/2011	1Set	28,500
5	Angle Measurement using Sine bar	27/09/2011	1 Set	7,500
6	Profile Projector	27/09/2011	1Set	1,10,000
7	Screwgauge Measurement Unit Floating Carriage	27/09/2011	1Set	65,000
Total Price				2,52,200

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ACADEMIC YEAR 2022-23

Department of Mechanical Engineering

Lab Details

Name of the Lab: Material Technology (Lab No. -13)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	Microstructure Set of 23 Pieces	04/08/2013	1	19,750
2.	Metallurgical Microscope SM-8	04/08/2013	1	33,000
3.	Fatigue Testing Machine	22/12/2014	1	1,40,625
4.	Jominey End Quench Hardner Tester	22/12/2014	1	1,04,625
Total Price				2,98,000

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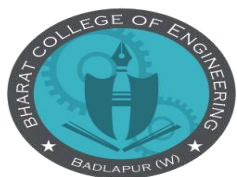
Name of the Lab: Mechanical Vibrations (Lab No. - 17)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	Vibration Set Up	27/07/2011	1	75,000
2.	Whirling Apparatus	27/07/2011	1	36,000
Total Price				1,11,000

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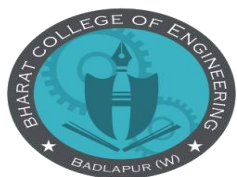
Name of the Lab: Strength of Material (Lab No. – 13)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost
1.	Universal Testing Machine	24/02/2011	1	3,40,000
2.	Torsion Testing Machine	24/02/2011	1	1,40,250
3.	Impact Testing Machine	24/02/2011	1	85,000
4	Combined hardness Testing Machine	24/02/2011	1	46,750
Total Price				6,12,000

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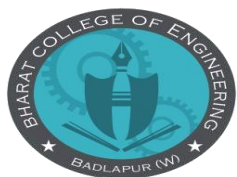
Name of the Lab: Thermal Engineering (Lab No. -12)

Lab Area: 66 m²

Sr.No.	Name Of Equipment	Date Of Purchase	Qty	Cost (Rs.)
1)	Locomotive Boiler Model	10/8/2011	1	11,500
2)	Lan Cashier Boiler Model	10/8/2011	1	11,500
3)	Babcock and Wilcox Boiler Model	10/8/2011	1	11,500
4)	Pressure & velocity compounded steam turbine	10/8/2011	1	11,500
5)	Gas Turbine Model	10/8/2011	1	6,500
6)	Dead Wt. Safety valve model	10/8/2011	1	2,600
7)	Lever loaded safety valve model	10/8/2011	1	2,750
8)	Spring loaded safety valve model	10/8/2011	1	2,650
9)	Hoop valve	10/8/2011	1	3,500
10)	Feed Check valve	10/8/2011	1	2,500
11)	High steam & low water safety valve	10/8/2011	1	4,500
12)	Orsat apparatus	10/8/2011	1	8,500
13)	2 HP two stage twin cylinder reciprocating air compressor	10/8/2011	1	1,25,000
Total Price				2,04,500

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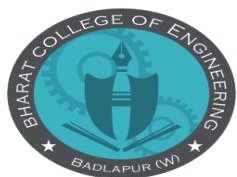
Name of the Lab: Theory of Machine (Lab No. -17)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	Clutches	27/07/2011	1	12,000
2.	Brakes	27/07/2011	1	16,000
3.	Rope Brake Dynamometer	27/07/2011	1	55,000
4.	Governors.	27/07/2011	1	39,000
5.	Cam and followers	27/07/2011	1	36,000
6.	Gyroscope	27/07/2011	1	40,000
7.	Kinematic Of Gears	10/08/2011	1	5,460
8.	Inversion of four bar link mechanism	10/08/2011	1	7,020
Total Price				2,10,480

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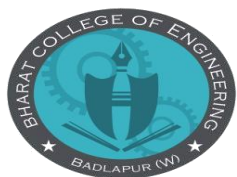
Name of the Lab: RAC (Lab No. -12)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost (Rs.)
1.	Ice Plant Test Rig	03/09/2013	1 Set	1,10,000
2.	Vapour Compression Refrigeration System Test Rig	03/09/2013	1 Set	48,000
3.	Vapour Absorption Refrigeration System Test Rig	03/09/2013	1 Set	65,000
4.	Air Conditioning System Test Rig	03/09/2013	1 Set	1,08,000
Total Price				3,31,000

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Name of the Lab: Engineering Mechanics (Lab No. -12)

Lab Area: 66 m²

Sr No.	Name of the Equipment	Date of Purchase	Quantity	Cost(Rs.)
1.	Universal Force Apparatus	28/08/2011	2 Set	17,000
2.	Parallelogram of Force apparatus	28/08/2011	1 Set	5,000
3.	Polygon of Forces Apparatus	28/08/2011	1Set	2,500
4	Parallel Forces Apparatus Dial Type	28/08/2011	1Set	8,000
5	Bell Crank Lever	28/08/2011	2 Set	5,000
6	Collusion of Elestic Bodies	28/08/2011	2 Set	3,500
8	Simple Jib Crane	28/08/2011	2 Set	2,500
9	Friction slide Apparatus with Inclined Plane	28/08/2011	2 Set	8,400
10	Combined Coil & Belt Friction Apparatus	28/08/2011	1Set	7,500
11	Moment Inertia of fly wheel 25 cms Dia.	28/08/2011	1Set	3,800
12	Compound Pendulum	28/08/2011	1Set	700
13	Simple Pendulum	28/08/2011	1Set	115
14	Stop clock esal make	28/08/2011	2Set	1,500
16	Weight with hanger (4 Weight + 1 Hanger) A) 2 Kgs Iron B)1 Kgs Iron C)1/2 Kgs Iron D)100 Gms Brass E)50 Gms Brass F)20 Gms Brass	28/08/2011	10 Nos. 8 Nos. 7 Nos. 6Nos. 91 Nos. 4 Nos.	2,500 1,200 660 1,160 700 360
Total Price				69,595

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