

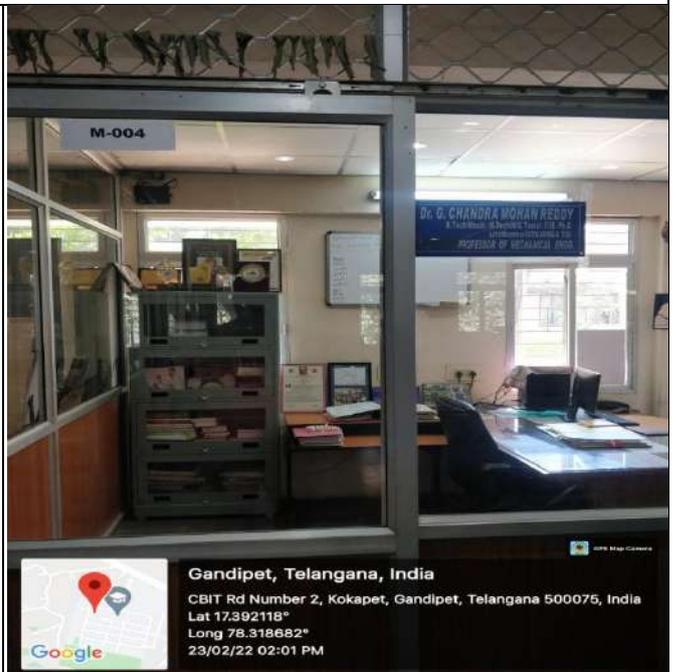
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS),HYDERABAD-75
INSTITUTE INFRASTRUCTURE SAMPLE PHOTOGRAPHS

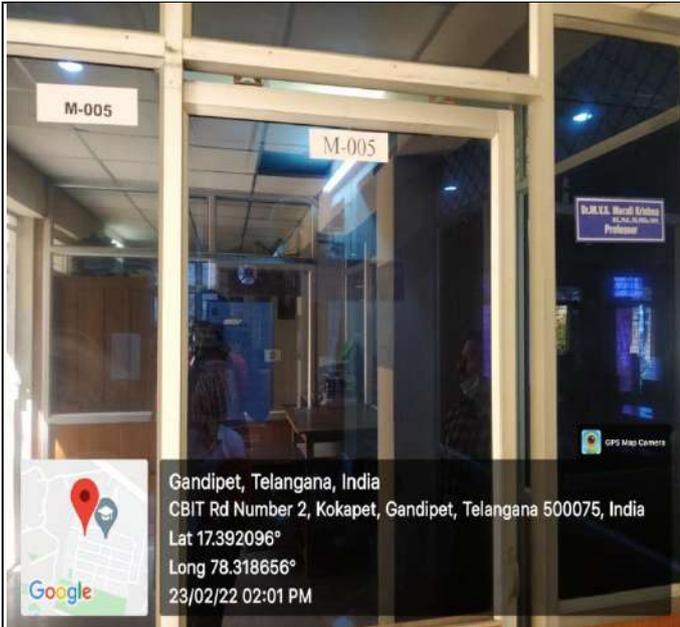
Mechanical Sample Classrooms – E201, E202, E203, E204, E301, E302, E303, E304, D201

HOD CABIN



STAFF ROOMS





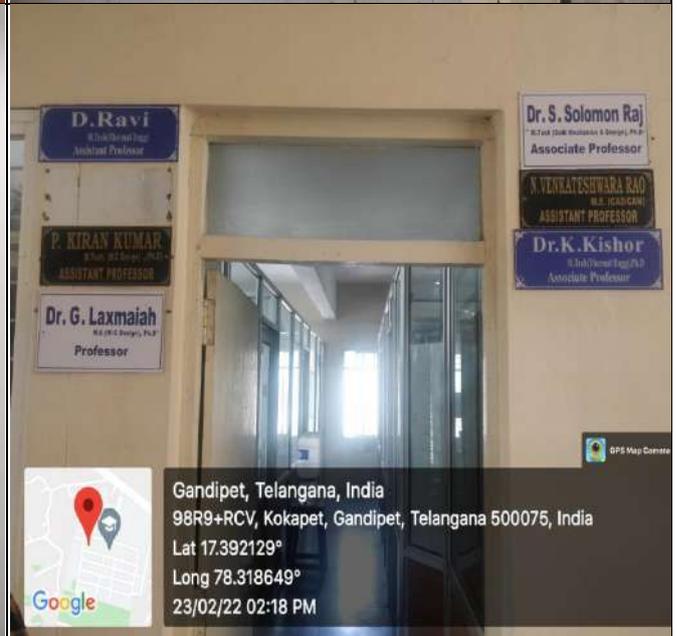
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Gandipet, Telangana, India
 98R9+RCV, Kokapet, Gandipet, Telangana 500075, India
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Gandipet, Telangana, India
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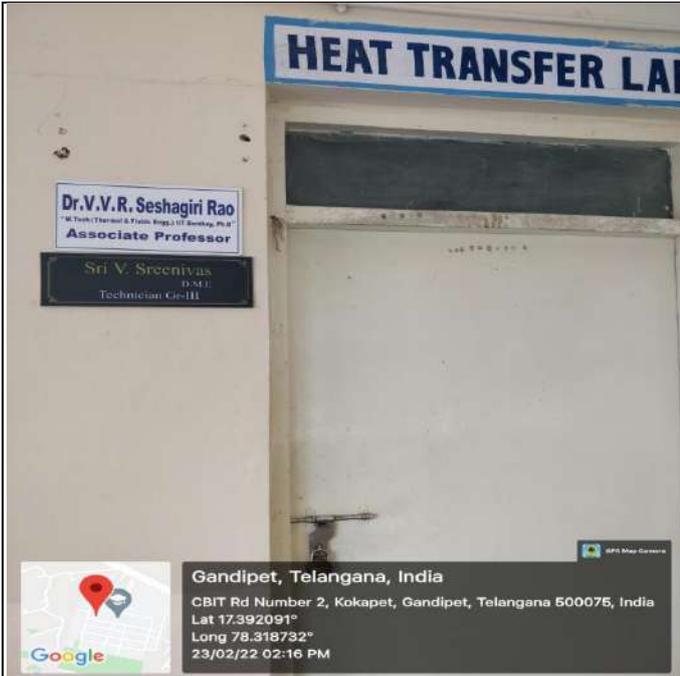
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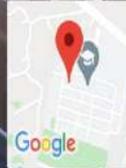
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 98R9+VJ5, Kokapet, Gandipet, Telangana 500075, India
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Hyderabad, Telangana, India
 MECHANICAL BLOCK, CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY,
 CBIT Rd Number 4, Kokapet, Narsingi, Telangana 500075, India
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Gandipet, Telangana, India
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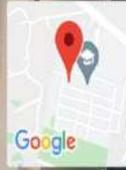
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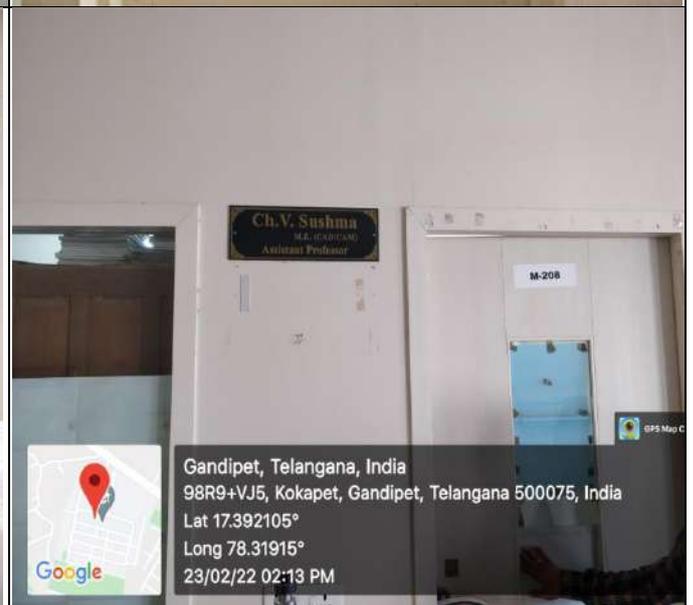
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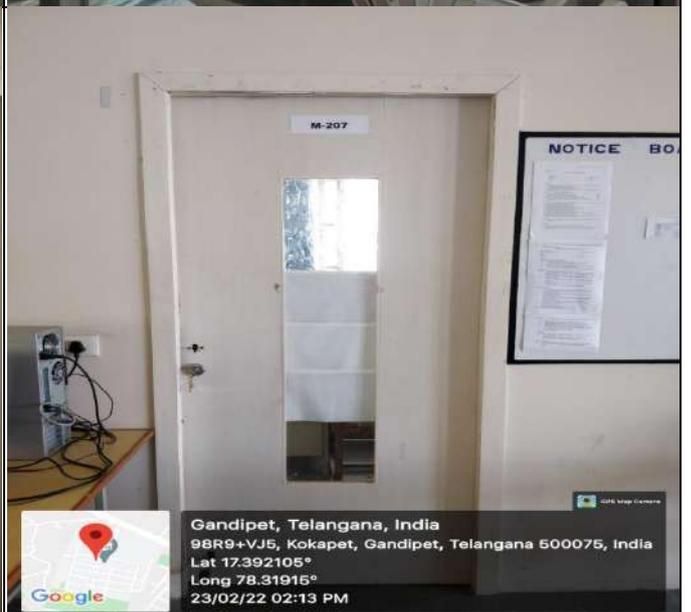


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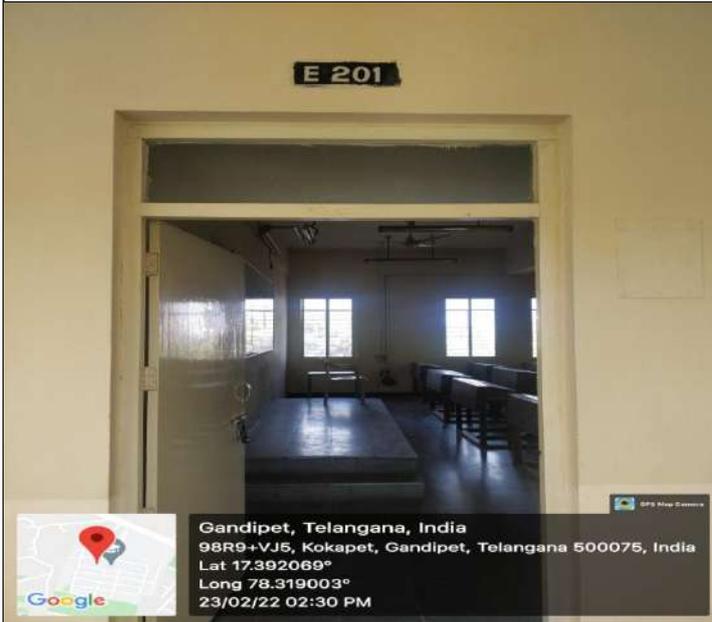


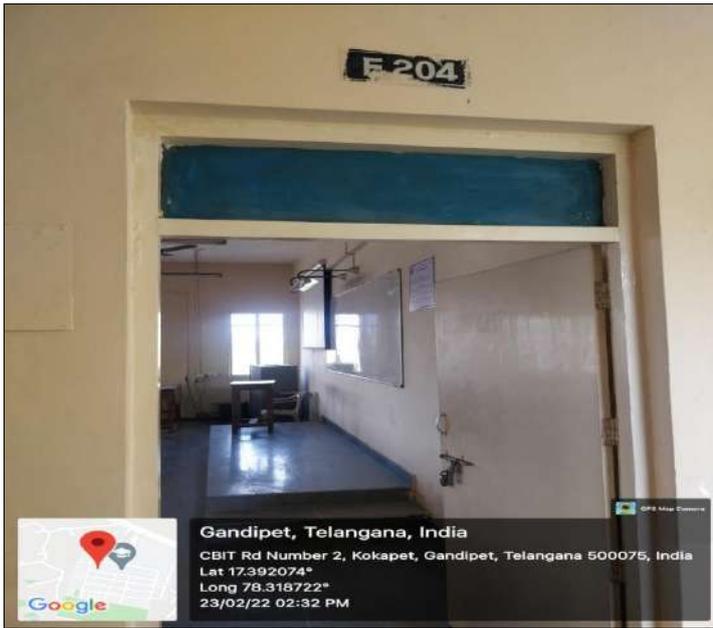
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Gandipet, Telangana, India
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CLASS ROOMS





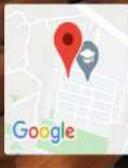
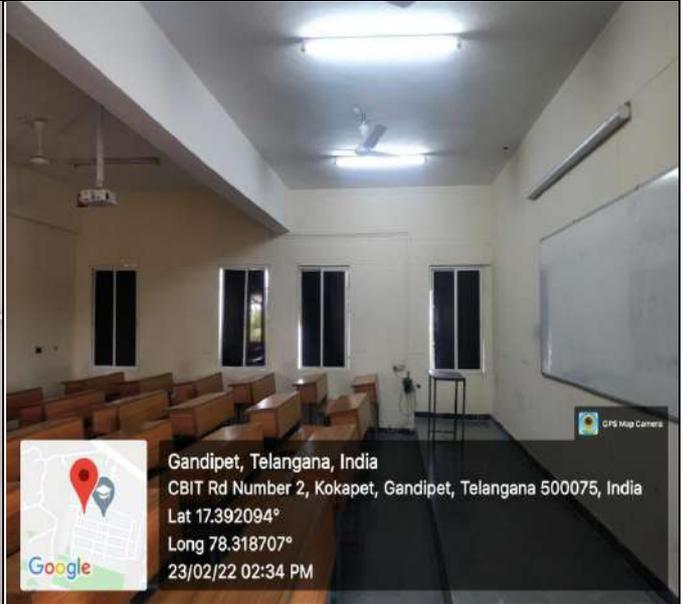
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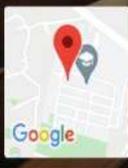
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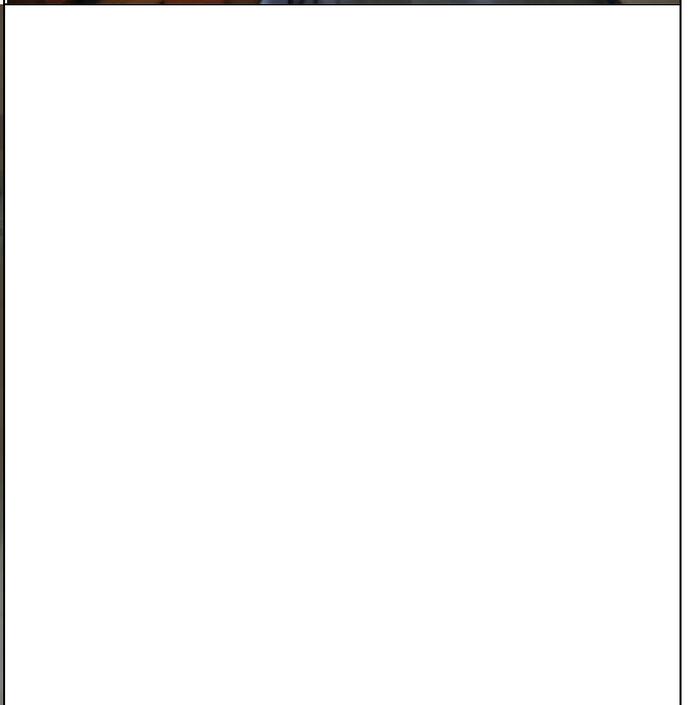
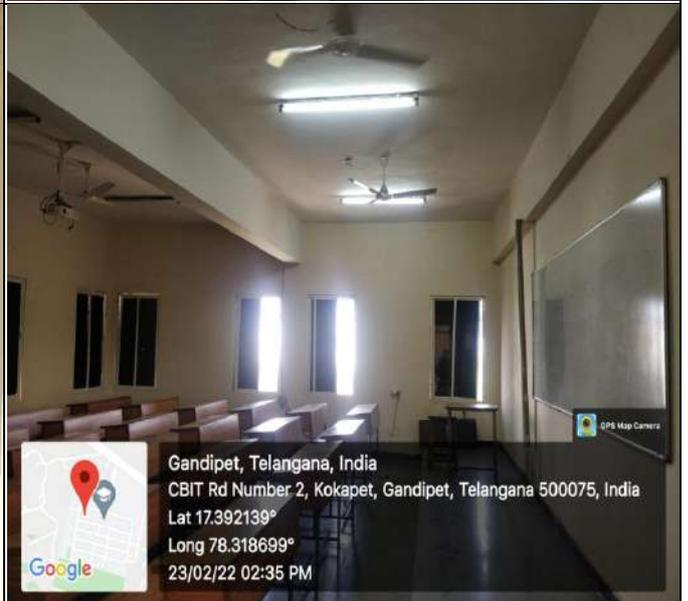
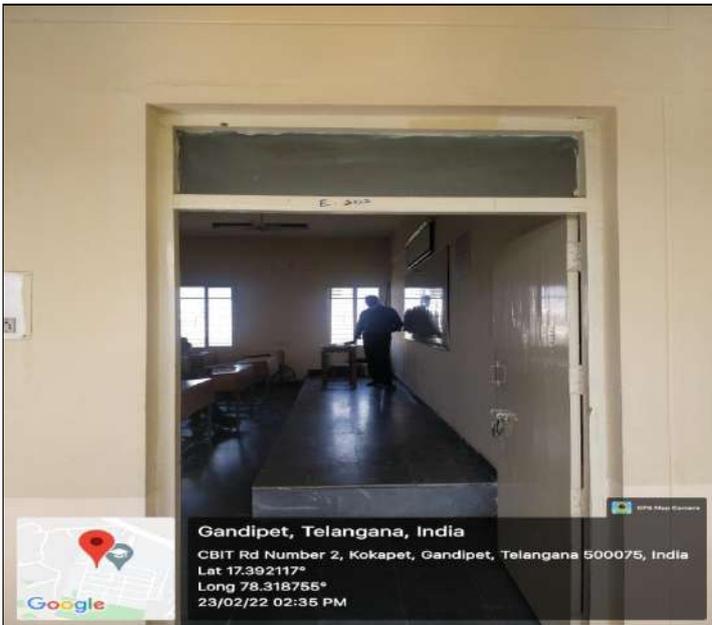
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Gandipet, Telangana, India
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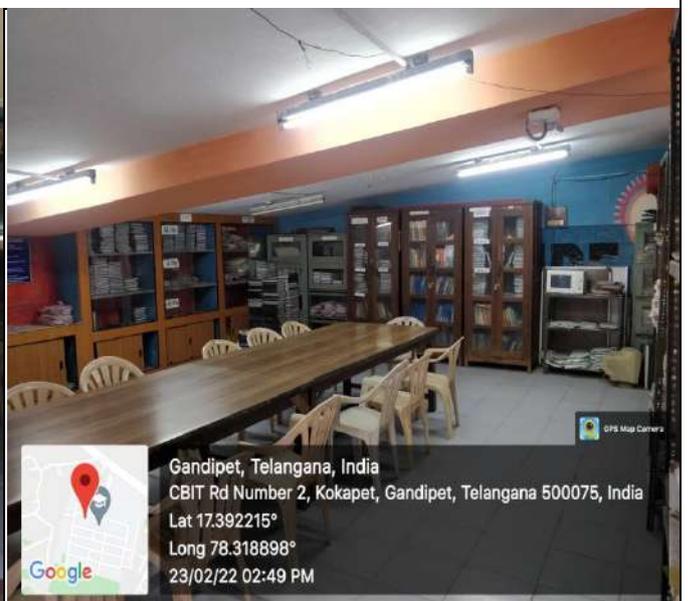
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SEMINAR HALL



MED LIBRARY



MECHANICAL LABS



Lab Name: Central Workshop

Equipment: Bosch Tool Kit, Sand Testing Equipment, Nortons Vertical Band Saw, Nortons Circular Saw, Nortons Wood Turning Lathes, Fret Sawing Machine, Tenon M/C, Mortising M/C, Portable Cutting M/C, Hand Drilling M/C, Grinding M/C, Surface Plate, power saw machine, GI sheet cutting machine, portable power drilling machine

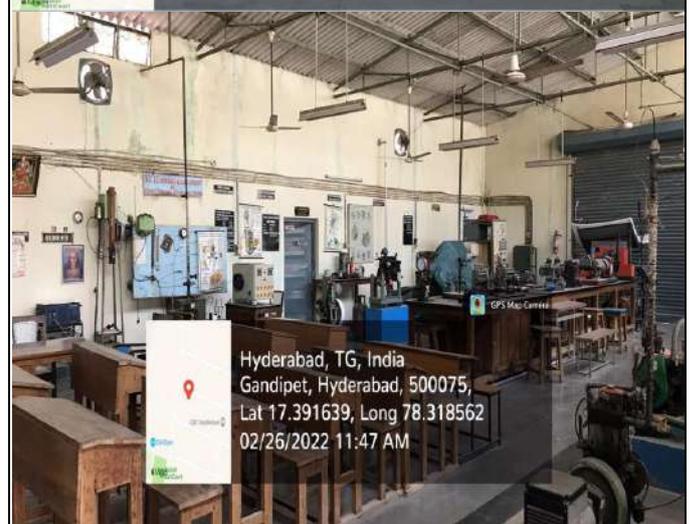
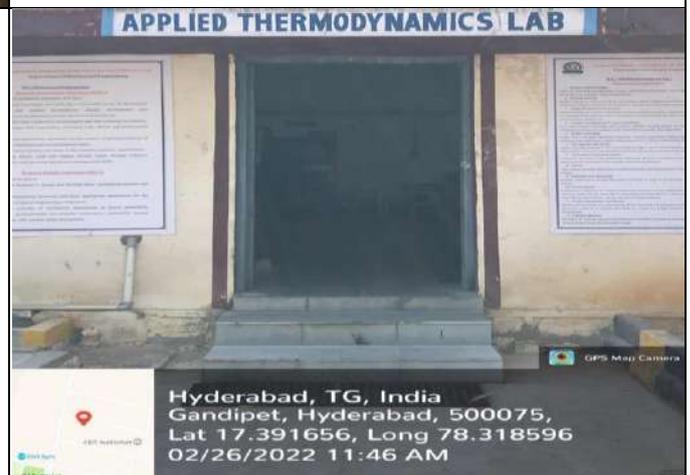
Total Cost: Rs.4,58,597



Lab Name: Applied Thermodynamics Lab

Equipment: Flash & fire Point Tester, Diesel engine of 5 HP 4 stroke vertical engine, 2-stage Reciprocating Air compressor, Pensky Martins Flash and Fire Point, Red wood Viscometer, Bajaj 2 stroke petrol engine, VCR petrol engine, Kirloskar diesel engine cut model, 5 gas analyser exhaust Analyser, AVL-437 Smoke meter, 4 Stroke Multicylinder petrol engine, Single cylinder engine with computerized bed and solar concentrator training system.

Total Cost: Rs. 25,40,161/-





Lab Name: Dynamics & Vibrations Lab

Equipment: Universal Vibration Apparatus, Universal Governor Apparatus, Cam analysis Apparatus, whirling of shaft apparatus, Static and dynamic balancing apparatus, Motorized gyroscopic apparatus, Universal vibration apparatus, Cam analysis Apparatus, Universal governor apparatus, Digital stop watches. Impact Hammer, Accelerometer, Cables, Hand held Shaker, Smart Shaker

Total Cost: Rs. 12,12,241/-

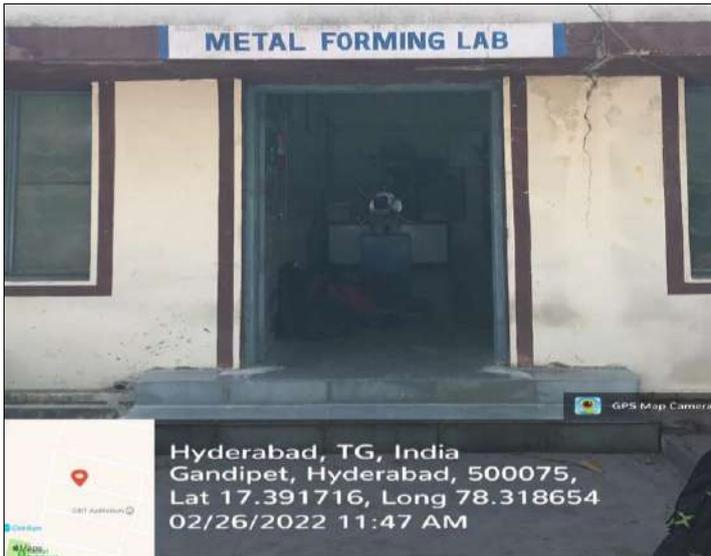


Lab Name: Heat Transfer Lab

Equipment: Emissivity Measurement Equipment, Parallel flow and Counterflow, Heat Transfer Through Logged Pipe, Heat Transfer from Pin-Fin Apparatus, Stefan-Bolzmann Constant, Boiling Heat Transfer Unit. Thermal Conductivity of Insulating Powder, Thermal Conductivity of Metal Rod, Critical Heat flux, Composite wall.

Total Cost: Rs. 171,595/-





Lab Name: Metal Forming Lab

Equipment: Delux Traddle Shearing M/C With Four Edge Cutting Blade, Union Trade Double Body Fly Press & Handle. Single Geared Power Press (Cap 30 Ton), Metal Forming Force Sensor, Digital Forming Force Indicator, Data Acquisition System, Software for Recording Force, Load Cell, Compound Die, Progressive Die, Draw Die, Lead Extrusion Die, Deform 2D Software On PC, Hydraulic Press Capacity – 50 Tons, Compound DIE, Hydraulic Piston Pump, Semi-Hydraulic Pipe Bending Machine, Single Body Fly Press, 25 TONS Hydraulic press, Erichsen cupping test machine, spinning lathe machine

Total Cost: Rs. 16,43,212

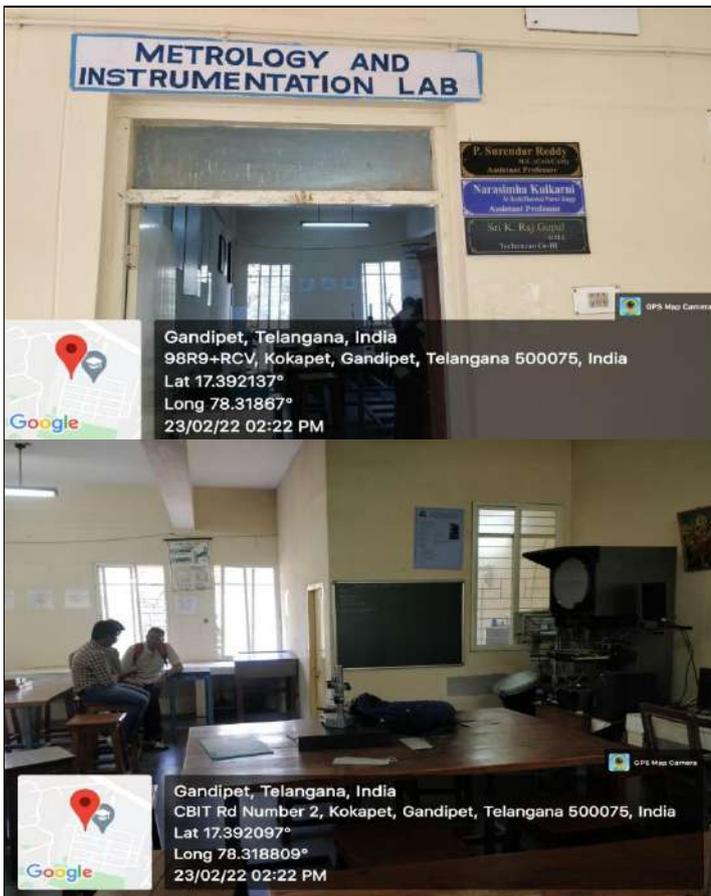


Lab Name: Metallurgy Lab

Equipment : Monocular metallurgical microscope model METZ 56, Belt Surface Grinder model M-12-D, ADCO Muffle Furnace complete 16*7*5 with cord and plug, Disc grinder with motor crompton greaves 180W 1425 RPM, Single disc polishing machine, Metallurgical polishing double disc model MT 104, Combined rockwell and brinell hardness tester model NRB-250, Monocular metallurgical microscope, Inverted binocular metallurgical microscope with halogen lamp illumination system power supply unit std. optics, Electric motor 0.5 HP single phase SRM make, Salt bath furnace , Creep testing machine , Specimen cutoff machine, Monocular metallurgical microscopes model-44 magnification 100/675 objectives m10 and m45 eye piece h10/h15, PC based image analysis system include colour ccd camera framer grabber card and full image analyser software, P III COMPUTER ,image process analyzer software (given by principal office)

Total Cost: Rs. 5,39,857/-





Lab Name: Metrology and Instrumentation Lab

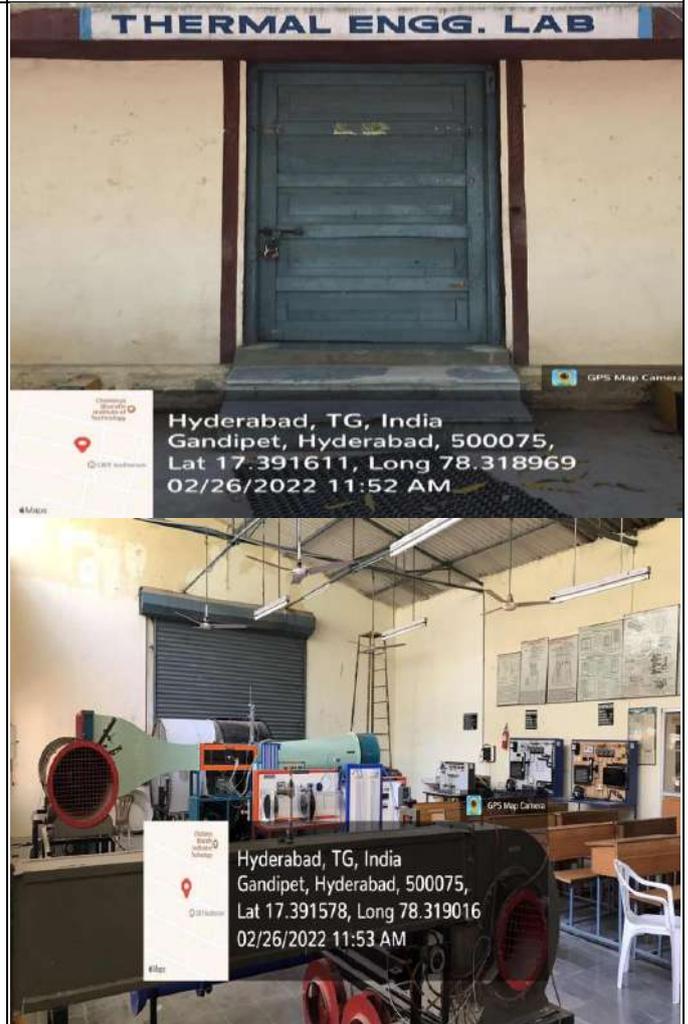
Equipment: Outside micrometer 0-100mm, outside micrometer 100-200mm, outside micrometer 200-300mm, outside micrometer 300-400mm, outside micrometer 400-500mm, Micrometer Holder Jafuji, Micrometer Holder Jafuji, cylinder bore gauge 10-20mm, cylinder bore gauge 35-60mm, cylinder bore gauge 50-160mm, cylinder bore gauge 150-300mm, depth micrometer 0-150mm, tubular inside micrometer 60-540mm, tubular inside micrometer 60-900mm, Vernier height gauge 300mm, digital height gauge 0.01 to 300 mm, V-Block 80x63x63, V-Block 100x80x80, V-Block 100x80x80, Slip Gauge set 125 pcs German make Slip Gauge set 83 pcs German make, Precession Sine Bar 100mm, Precession Sine Bar 200mm, Precession Sine Bar 300mm, Spirit Level 200 mm X 0.02, Granite Surface plate 1000x1000 mm, Clinometer Switzerland make Magnetic Stand (Yanayo), Zeiss Measuring Optical Projector MP-320, Zeiss Large tool makers microscope, Standard specimen for practical demonstration Tool Makers Microscope Calibration Tester (Mitutoyo), dial indicator 0.001mm japan, dial indicator 0.01mm Japan Plug Gauge Set 5-25mm, Adjustable Snap Gauges 19-25.5mm, Adjustable Snap Gauges 32-38 mm, Adjustable Snap Gauges 38-44.5 mm, Adjustable Snap Gauges 44.5-51 mm, Surface Roughness Tester Mecrin-3, Pitch Tester (Gear Tooth Vernier), DAK Strain Gauge Starter kit, Mescon Make strain meter, Outside Micrometer 25-50mm, Outside Micrometer 50-75mm, Outside Micrometer 75-100mm, Outside Micrometer 100-125mm, dial thickness gauge 0.01 x 10mm, dial thickness gauge 0.01 x 20mm, spline micrometer 0-25mm (mitutoyo), Screw thread micrometer 0-25mm german, Screw thread micrometer 25-50 mm german, Bench Micrometer 0-25mm German Make, Groove Micrometer Mitutoyo 0-25mm, Flange Micrometer 25-50 mm German Make, Zeiss Optical Bevel Protractor, Angle 3" X 1/4" and 2" X 1/4", Dell Optiplex 3060 I7 Computer, HP Laserjet 1020 Plus Printer, Zotac NVIDIA GT730 4GB Graphic Card, Taylor Hobson Talysurf Surface Roughness tester S-100 Series, Optical/Profile Projector 400TE Computerised measuring system with 2D-Software.

Total Cost: Rs. 13,89,541/-

Lab Name: Thermal Engineering Lab

Equipment: ARE Refrigeration Tutor, ARE Air Conditioning Test rig, Gas Turbine single stage, Gas Turbine 2 Stage, Model of Steam Turbine, Model of Turbine Pump, Board of impellers of pump, Centrifugal Blower Test rig, Axial Flow fan, Refrigeration Tutor, Air conditioning Tutor, Nozzle pressure distribution apparatus, Subsonic Wind Tunnel, Solar Thermal Training System, Solar PV Wind Hybrid Training System, Centrifugal Blower Test rig, Axial Flow fan

Total Cost: Rs. 26,61,268/-





Lab Name: Machine Tools Lab

Equipment: GNM2-Lathe, Tiger-Lathe, MK (Mysore Kirloskar)- Lathe, GEDEE WEILER Lathe, Universal milling machine, HMT Lathe, PSG Lathe, HMT (New Lathe), Lathe Tool Dynamometer, Drill Tool dynamometer, Milling Tool Dynamometer, Grinding Tool Dynamometer, Shaper Geared type, Lathe Tool Dynamometer, Drill Tool Dynamometer, Milling Tool Dynamometer, surface grinding machine

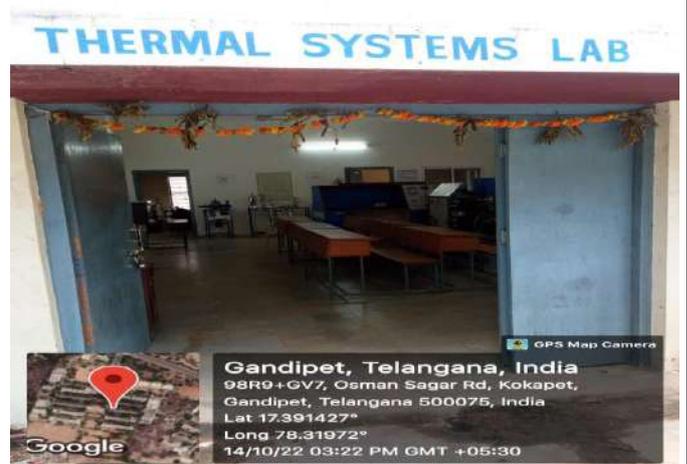
Total Cost: Rs. 31,90,534.31



Lab Name: Thermal Systems Lab

Equipment: Thermal conductivity of metal rod
Coefficient of thermal expansion -Measurement of solids, liquids and gases, Heat pipe demonstration, Thermal capacity of solids, Determination of Isentropic coefficient of air-Clement Desormes Method, Kirloskar 5 HP Diesel engine with computer interfacing, Cross flow heat exchanger, Multicylinder 4-Stroke Diesel engine

Total Cost: Rs. 17,56,852





Lab Name: Welding Lab

Equipment : Acetylene Gas Cylinder, Oxygen Gas Cylinder, Welding Transformer(TPA301), Welding Motor Generator(K320),Welding Transformer (MJ 300SF),Portable Grinding M/c, Air Cooled Welding transformer(TPA 303),Weld Craft Make Spot Welding Unit, Digital Weighing Machine, Welding Rectifier Throlex (401) (TLG), TIG Welding attachment model(ADOR TLG 25/30), Argongas Cylinder, MIG Welding M/c Ranger(400 D/C),CO2 Cylinder, Dewalt Model 871 Chopsaw, Ador make submerged Arc Welding m/c (SWM-6),Buffing and polishing M/c, Gas Welding & Cutting Equipment

Total Cost: Rs. 9,71,792



Lab Name: CAD&D Lab

Equipment: 130 Dell OptiPlex 3060 core i7 processor, 8GB RAM, 1 TB Hard disk, 20 inches monitor, 2 GB Graphics card with windows 10 operating system, 4 HP laser jet 1020 plus primer printers.

Total Cost: Rs. 71,91,998/-

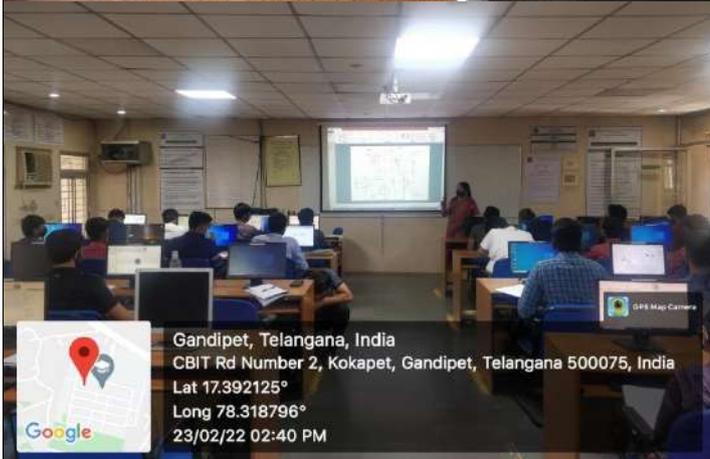




Lab Name: CAD/CAM Lab

Equipment: Pneumatic vice for 8-station ATC VMC, V.M.C Triac Milling with ATC, 24 Port 10T D-Link Hub, IBM Think Center systems, HpXw 4600 Workstation, Refurbishing Of Triac M/C With Fanuc(Tooling Package), HP 3330 - I7, HP Pro Desk core I5, 10KVA UPS, ELGI make Air compressor, 10KVA UPS LED Samsung monitor, Panasonic Projector LX-270 Solid Works-18, OFC Cable 6 CORE MULTIMODE D-Link 305 Mtrs, HP Z 240 Workstations (Projects), HP 4100 Printer (Projects)

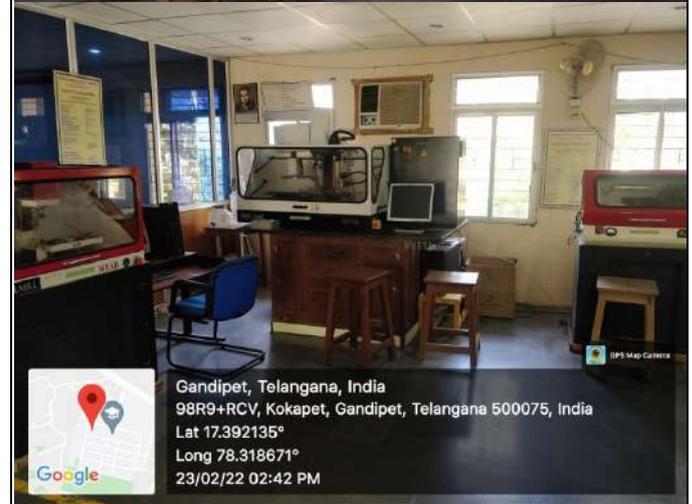
Total Cost: Rs. 61,01,455/-



Lab Name: 3D Printing/Additive Manufacturing Lab

Equipment: Flash Forge Inventor 3D Printers, Build Volume: 230 X 150 X 160 mm³, Dell OptiPlex 3060 I7 Systems Consisting of Ram-8GB, HDD-1TB, Graphic Card-2TB, monitor 20" Flash Forge Inventor 3D Printers, Build Volume: 230 X 150 X 160 mm³, Hydra 645 3D-Printer Amaron quanta batteries, Form 3B-3D printer G3D Pixel Dual 3D printer, Akar 200 FDM - 3D printer

Total Cost: Rs. 52,63,950/-





Lab Name: Research Lab

Equipment: 25 KN Servo Controlled Nano Universal Testing Machine, Raise N2 Plus RXP 2200 Smart Plus 3D Printer, Digimat Academic Research Software, Next Engine HD 3D Scanner, Form Labs SLA Base 3D Printer and Markforged Onyx Pro 3D Printer, HYDRA 645 3D Printer with MK450 Extruder Capable of Printing PEEK Material with, Traingular Inverted Metallurgical Microscope, Digital Ultrasonic Flaw Detector, Wear Lubrication and Friction Tester

Total Cost: 1,01,35,489/-



Lab Name: CFD Lab

Equipment: HP Z220 (25 no's) Workstation Consisting of Ram-8GB, HDD-1TB, Graphic Card-1GB, LRD Monitor-18.5"HP Z420 (1 no) Workstation Consisting of Ram-16GB, HDD-3TB, Graphic Card: NVIDIA 1GB, 23" LED Monitor. Ansys Academic Teaching Version 19. ABAQUS Research Edition 6.13, 24 Port D-Link Switch, Online UPS 10 KVA, Batteries 16 No's & Stand 1 No, LCD Projector NEC Projector [3-230X].

Total Cost: 39,51,944/-

