



## **Infrastructure & Other Resources**

Space for Land & Building	The University has sufficient infrastructure & building as per the Government of Maharashtra guidelines for establishing state private university.
Classrooms	The University has sufficient and fully furnished and spacious classrooms and labs, equipped with latest audio-visual aids.
Laboratories	The University has total 14 nos. of laboratories as below: G-12 – Transportation Lab, F-18 – Survey & Model Making Lab, F-19 – Physics / Electrical & Electronics Lab, F-20 – Environment & Chemistry Lab. Computer Labs -10

## Equipments

S. NO	DESCRIPTION & SPECIFICATON	UNIT	QNT	Price/Unit	<a href="#">GST@18%</a>	Total Quantity Price	Location	Present Condition	Date Of Purchase
Chemical Laboratory Apparatus									
1	POTENTIOMETER-One meter long wooden board equipped with brass strips on sunmica base 4-wire with Pencil Jockey	Nos	15	14,380.00	2,588.40	16968.40	F20	Working	3/23/23
2	Digital pH Meter-Range:0-14 Ph Accuracy :0.01 Ph With Electrode LED Display With Electrode Stand & Buffer Solution With Indian electrode.	Nos	2	18,560.00	3,340.80	21900.80			
3	Precision Balance-Capacity-600g/0.01g	Nos	2	21,650.00	3,897.00	25547.00			
4	STOP CLOCK, (METAL Body) Smith Type, Fly Back Action	Nos	5	4,480.00	806.40	5286.40			
5	Flame Photometer-SENSITIVITY-K-0.01ppm,Na-0.01ppm,RANGE K-0-10ppm,Na-0-160ppm.LINEARITY-K-0.195ppm,Na-0.69ppm,REPEATABILITY-1 % CV for 20 consecutive sample,SAMPLE UPTAKE-<6 L/min	Nos	1	189,450.00	34,101.00	223551.00			
6	OPTION 2- Horizontal All Glass Single Stage Distillation Units-Capacity Distilled Water Output-2.5LPH,Minimum cooling water-requirement (Ltr/min)-1.5,Heater-Quartz, Boiler, Condensor	Nos	1	74,630.00	13,433.40	88063.40			
7	Laboratory Oven - Laboratory Electric Oven, Thermostatically Controlled, range 50° to 250°C +/- 3°C with Air Circulating Fan, S.S. Inside Size 450 x 450 x 450mm	Nos	1	43,970.00	7,914.60	51884.60			
8	MUFFLE FURNACE-Heavy gauge Mild Steel construction for durability having powder coating finish,Outer Casing Made from Stainless Steel – 304 grade in all GMP Models,Temperature Sensor : “K” Type (Cr/Al) Thermocouple sensor,Working Temperature Range: 400°C to 1150°C,Operates on 230 Volts AC Single phase 50 Hz.MUFFLE SIZE-23 X 23 X 45,CAPACITY IN LTRS-23.80	Nos	1	127,530.00	22,955.40	150485.40			
9	Digital Colorimeter- 9 wavelengths, 3 digit Absorbance mode Only,Accessories 1 Instruction Manual 2 Cuvette Set (5) 12 x 75 3 Battery Box 4 Dust cover	Nos	1	12,400.00	2,232.00	14632.00			
PHYSICS									
1	Determination of Young’s modulus of the given material of wire by Searle’s Method	Nos	5	21,340.00	3,841.20	25181.20			
2	Determination of rigidity modulus of the given material by statistical method	Nos	5	52,270.00	9,408.60	61678.60			
3	Determination of spring constant, effective spring constants using springs in series and parallel.	Nos	5	26,670.00	4,800.60	31470.60			
4	Determination of wavelength of the given laser. With double rod optical bench	Nos	5	106,670.00	19,200.60	125870.60			

5	Determination of hall coefficient and carrier concentration of a given semiconductor.	Nos	5	587,780.00	105,800.40	693580.40	F19	Working	23.03.2023
6	Determination of the band gap of a given thermistor kit Determination of dielectric constant of a material using charging and discharging of the given capacitor.	Nos	5	32,800.00	5,904.00	38704.00			
7	Determination of dielectric constant of a material using charging and discharging of the given capacitor.	Nos	5	45,340.00	8,161.20	53501.20			
8	Determination of numerical aperture, acceptance angle and fiber loss of a given optical fiber. With double rod optical bench	Nos	5	176,340.00	31,741.20	208081.20			
9	Fermi energy of a material.	Nos	5	214,670.00	38,640.60	253310.60			
10	Verification of Stefan's Law.	Nos	5	27,740.00	4,993.20	32733.20			
11	Determination of Magnetic field intensity along the axis of a circular coil carrying current.	Nos	5	58,670.00	10,560.60	69230.60			
TOOLS									
A	<u>Department of Workshop- Fitting Shop</u>								
1	Working Table (MS Frame & wooden top) Size 6ft X 3ft	Nos	5	33,230.00	5,981.40	39211.40	Workshop		23.03.2023
2	Fitting Vice (Apex)150mm	Nos	10	70,280.00	12,650.40	82930.40			
3	Surface plate (Granite) 730 x730 x 80 mm	Nos	1	70,280.00	12,650.40	82930.40			
4	Magnetic Angle Plate 6x5x4 Slotted C.I.	Nos	1	11,500.00	2,070.00	13570.00			
5	C-Clamps Set 5.5 Cm. Forged (Taparia)	Nos	3	2,110.00	379.80	2489.80			
6	File Set ( J.K.) Square/Flat /Round/ Half Round/Triangular	Nos	6	19,170.00	3,450.60	22620.60			
7	Vernier Height Gauge (0 - 300 mm ND) VTH Co.	Nos	1	19,170.00	3,450.60	22620.60			
8	Vernier Calliper Dial type of various size- ND) Mitutoyo 150 MM/300MM	Nos	1	17,250.00	3,105.00	20355.00			
9	Vernier Calliper of various size- ND) Mitutoyo 150 MM/300MM	Nos	1	11,890.00	2,140.20	14030.20			
10	Micrometre Out side 0 - 25 mm) Mitutoyo	Nos	1	3,840.00	691.20	4531.20			
11	Filler Gages/ Snap Gauge/Radios Gauge	Nos	1	17,700.00	3,186.00	20886.00			
12	Dial Gauge with stand Mitutoyo , Co	Nos	1	5,750.00	1,035.00	6785.00			
13	V-Block Magnetic crystal 5" (KAP Tools)	Nos	2	7,780.00	1,400.40	9180.40			
14	Remer with Handle	Nos	3	15,340.00	2,761.20	18101.20			

15	Spanner set (Taparia) (23 Nos)	Nos	2	8,950.00	1,611.00	10561.00		
16	Hand Hacksaw Frame	Nos	10	4,480.00	806.40	5286.40		
17	Alane Key Set, Taparia	Nos	1	320.00	57.60	377.60		
18	Drill & Tap Set (Spiral) J.K. Make, HSS	Nos	1	640.00	115.20	755.20		
19	Die set J.K. Make	Nos	1	640.00	115.20	755.20		
20	Wrench set, Taparia (3 Nos./set	Nos	1	1,150.00	207.00	1357.00		
21	Plier set	Nos	1	1,220.00	219.60	1439.60		
22	Tri Square Taparia set (3 Nos Metallic))	Nos	3	4,600.00	828.00	5428.00		
23	Bore Gauge (6 mm - 250 mm) Mitutoyo Co.	Nos	1	153,340.00	27,601.20	180941.20		
<b>B</b>	<b>Department of Workshop-Carpentry Shop</b>			-	-			
1	Working Table (MS Frame & wooden top) Size 6ft X 3ft	Nos	5	35,140.00	6,325.20	41465.20	Workshop	23.03.2023
2	Carpentry Bench Vice 150mm (C.I)	Nos	6	34,500.00	6,210.00	40710.00		
3	Carpentry Bench Vice 65 mm	Nos	6	14,570.00	2,622.60	17192.60		
4	Claw Hammer/Curved & Taper	Nos	5	3,200.00	576.00	3776.00		
5	Chisel Set- set of 4	Nos	3	5,370.00	966.60	6336.60		
6	Block Plane( Randha C.I)	Nos	10	6,390.00	1,150.20	7540.20		
7	C- Clamp/Clamp set	Nos	3	770.00	138.60	908.60		
8	Hand Saw/Jig Saw/ Circle Saw/Table Saw (Set of 4)	Nos	1	57,500.00	10,350.00	67850.00		
9	Hand Drill M/c 500w/26mm Dia (Boss)	Nos	1	4,480.00	806.40	5286.40		
10	Utility Knife	Nos	5	2,110.00	379.80	2489.80		
11	Wood Moisturiser Meter	Nos	1	1,920.00	345.60	2265.60		
12	Malate -	Nos	3	1,350.00	243.00	1593.00		
13	Nail Set 1/32,1/16,1/8- 4-Piece Nail Punch Set 1/8-Inch, 1/16-Inch, 1/32-Inch and 3/32-Inch	Nos	3	16,100.00	2,898.00	18998.00		
14	Sliding Bevel Proctor /Carbon Steel	Nos	3	2,300.00	414.00	2714.00		
15	Contraction /Shrinkage Scale M.M	Nos	3	7,290.00	1,312.20	8602.20		

C	Department of Workshop-Sheet Metal Work (Tin Smithy)			-	-		
1	Working Table (MS Frame & wooden top) Size 6ft X 3ft	Nos	5	35,140.00	6,325.20	41465.20	Working
2	Sniper (For cutting)/ Bold cutter set	Nos	3	7,100.00	1,278.00	8378.00	
3	Double point scriber /Divider/Punch set	Nos	3	3,650.00	657.00	4307.00	
4	Metal Nibblers /3.2mm- MS/2.5 mm- SS, Stroke 1300 spm/120/128mm in/ out side edge cutting	Nos	1	44,730.00	8,051.40	52781.40	
5	Plier	Nos	3	1,080.00	194.40	1274.40	
6	Shearing M/c (Hand operated) Pentagon	Nos	1	4,600.00	828.00	5428.00	
7	Bending M/c ( Manual operated) Pentagon	Nos	1	22,490.00	4,048.20	26538.20	
8	Remer (Holl Finishing tool) set- Ozar AAR-1100 Adjustable Hand Reamer Set Of 11 Pcs. (Black)	Nos	3	23,000.00	4,140.00	27140.00	
9	Wrench	Nos	3	3,450.00	621.00	4071.00	
10	Chisel	Nos	3	580.00	104.40	684.40	
11	Beak/Half Moon/Horn Stack Set	Nos	2	-	-		
12	M.S. Beam Trammel/ Circle dia. 650 mm (Omkar Industry)	Nos	1	1,920.00	345.60	2265.60	
13	Grooving Tool (Onkar Industries)	Nos	1	1,600.00	288.00	1888.00	
14	Tri Square Taparia set (3 Nos. Metallic))	Nos	2	4,600.00	828.00	5428.00	
15	Contraction /Shrinkage Scale M.M	Nos	1	2,430.00	437.40	2867.40	
16	Folding Bar (Bolted, Shape, U shape 4 Nos./One set) S.S.- Aopin Square U-Bolt 1.77"(45mm) Inner Width U Bolts Brackets 304 Stainless Steel M6 with Nut, Plate, Washer for Car/RV/Trailer Bumper,4 Sets	Nos	1	5,120.00	921.60	6041.60	
17	Swage Block 12"x12"x4"	Nos	1	4,820.00	867.60	5687.60	
18	Anvil 50 Kg capacity	Nos	1	19,170.00	3,450.60	22620.60	
19	Malate	Nos	5	2,240.00	403.20	2643.20	
20	Rivet Gun 10"	Nos	1	2,690.00	484.20	3174.20	
21	Shouldering Gun	Nos	1	450.00	81.00	531.00	
D	Department of Workshop-Welding Shop			-	-		

1	Working Table (MS Frame & wooden top) Size 6ft X 3ft	Nos	5	35,140.00	6,325.20	41465.20	Workshop	23.03.2023																												
2	Arc Welding Transformer GLOBAL MAKE: - 200 AMPS Single phase Mosfet Heavy duty. (Inverter Type)I-Bell/M200-10514BT ARC welding machine. Power saving inverter base machine. Accessories :- Earthing clamp & holder (12 months warranty only on machine	Nos	1	13,420.00	2,415.60	15835.60			Workshop	23.03.2023																										
3	Spot Welding Transformer Spot welding machine 15 KV	Nos	1	108,620.00	19,551.60	128171.60					Workshop	23.03.2023																								
4	Spanner set (Taparia) (23 Nos)	Nos	1	2,300.00	414.00	2714.00							Workshop	23.03.2023																						
5	Hammer Set (Standard) 2 Nos.	Nos	3	2,300.00	414.00	2714.00									Workshop	23.03.2023																				
6	Plier (Taparia)	Nos	3	1,150.00	207.00	1357.00											Workshop	23.03.2023																		
7	Chisel Taparia	Nos	3	1,270.00	228.60	1498.60													Workshop	23.03.2023																
8	Tongs Set (Taparia) 5/set	Nos	3	5,750.00	1,035.00	6785.00															Workshop	23.03.2023														
9	Clamp Set- 1 piece	Nos	3	770.00	138.60	908.60																	Workshop	23.03.2023												
10	Angular Grinder (Boss)	Nos	1	3,220.00	579.60	3799.60																			Workshop	23.03.2023										
11	File Set ( J.K.) Square/Flat /Round/Half Round/Triangular	Nos	1	1,920.00	345.60	2265.60																					Workshop	23.03.2023								
12	Weld Gauge	Nos	1	2,300.00	414.00	2714.00																							Workshop	23.03.2023						
13	Anvil (Manish Tools) 50Kg	Nos	1	21,730.00	3,911.40	25641.40																									Workshop	23.03.2023				
14	Pipe vice (Manish Tools) 3 Inches	Nos	1	5,780.00	1,040.40	6820.40																											Workshop	23.03.2023		
15	Fitting Vice (Apex)150mm	Nos	5	71,880.00	12,938.40	84818.40																													Workshop	23.03.2023
16	Hand Drill M/c 500w/26mm Dia (Boss)	Nos	1	4,480.00	806.40	5286.40																														
<b>E</b>	<b>Department of Workshop-Material Testing Shop</b>			-	-		Workshop	23.03.2023																												
1	Universal Testing Machine Computerised, Capacity, 1000 kN, 6 pillar type with Hydraulic jaws	Nos	1	1,756,030.00	316,085.40	2072115.40			Workshop	23.03.2023																										
<b>F</b>	<b>Department of Workshop-Electrical Shop</b>			-	-						Workshop	23.03.2023																								
1	Volt Meter- Analog. Portable.	Nos	3	6,140.00	1,105.20	7245.20							Workshop	23.03.2023																						
2	Atmometer	Nos	3	-	-	0.00									Workshop	23.03.2023																				
3	Hand Drill M/c 500w/26mm Dia (Bosch)	Nos	1	4,480.00	806.40	5286.40											Workshop	23.03.2023																		
<b>G</b>	<b>Department of Workshop-Plumbing &amp; Sanatory Line Assembly</b>			-	-														Workshop	23.03.2023																

1	Chain Wrench	Nos	3	8,440.00	1,519.20	9959.20	Workshop	Working	23.03.2023
2	Pipe Vice 3" (Heavy Duty)	Nos	6	23,000.00	4,140.00	27140.00			
3	Threading Dies	Nos	3	24,920.00	4,485.60	29405.60			
4	Working Table (MS Frame & wooden top) Size 6ft X 3ft	Nos	5	35,140.00	6,325.20	41465.20			
5	Snake Machine	Nos	2	-	-				
6	Pipe Wrench 450mm	Nos	3	3,450.00	621.00	4071.00			
7	Adjustable Wrench	Nos	3	2,500.00	450.00	2950.00			
8	Pipe Cutter	Nos	3	7,100.00	1,278.00	8378.00			
9	Plumber Torch	Nos	3	-	-	0.00			
10	Pliers	Nos	3	1,080.00	194.40	1274.40			
11	Press Fitting System	Nos	3	-	-	0.00			
12	Hand Auger	Nos	3	37,660.00	6,778.80	44438.80			
13	Pipe Bending Machine 20x1.5x 12mm Dia	Nos	3	109,250.00	19,665.00	128915.00			
14	Basin Wrench Set	Nos	2	2,690.00	484.20	3174.20			
H	<u>Department of Workshop-Indoor Env. Quality Assessment</u>			-	-				
1	Digital Moisturizer Meter (Pin Type) M/Range 6-99	Nos	1	3,070.00	552.60	3622.60	Workshop	Working	23.03.2023
2	Digital Temp, Hum, Air Flow Meter Model No HD 304 Humidity & Temp	Nos	1	3,620.00	651.60	4271.60			
3	Particle Counter & Dust Monitor 190/75, EXTECH Brand, Tep Range -25 To 60 Degree, Particle Size Channels 0.3/0.5/1.0/2.5/5.0/10 Um. Humidity Rang 0-100% RH	Nos	1	204,450.00	36,801.00	241251.00			
4	Thermal InfraRed Camera Model No VT 100 Thermal Camera	Nos	1	31,630.00	5,693.40	37323.40			
5	Sound Meter-Model No SL 1352 Sound Level mete	Nos	1	12,020.00	2,163.60	14183.60			
6	IAQ Instrument & Accessories	Nos	1	-	-				
7	Pocket Size Digital Lux Meter - Model No LX 102A Lux meter HTC Make	Nos	1	3,240.00	583.20	3823.20			
<b>FLUID MECHANICS</b>									
1	Losses in Pipe fittings & Pipe Bends	Nos	1	95,790.00	17,242.20	113032.20			
2	Impact of Jet	Nos	1	74,110.00	13,339.80	87449.80			

3	Losses in Pipes	Nos	1	68,980.00	12,416.40	81396.40	PO issued			
4	Bernoulli's Theorem	Nos	1	94,450.00	17,001.00	111451.00				
5	Orifice and Mouthpiece	Nos	1	83,240.00	14,983.20	98223.20				
6	Notch Apparatuses	Nos	1	95,750.00	17,235.00	112985.00				
7	Venturi-orifice meter and Rotameter	Nos	1	92,290.00	16,612.20	108902.20				
8	Pitot Tube	Nos	1	57,470.00	10,344.60	67814.60				
9	Center of Pressure	Nos	1	16,720.00	3,009.60	19729.60				
10	Stability of Floating Body	Nos	1	36,260.00	6,526.80	42786.80				
11	Reynolds Apparatus	Nos	1	21,640.00	3,895.20	25535.20				
12	Adjustable Bed Flow Channel	Nos	1	437,710.00	78,787.80	516497.80				
<b>SURVEYING LAB</b>										
1	SOKKIA B 40 A (Advance) Automatic Level	Nos	6	161,000.00	28,980.00	189980.00			F18	Working
2	SOKKIA IM 55 LATEST REFLECTORLESS TOTAL STATION	Nos	2	778,450.00	140,121.00	918571.00				
3	Digital Theodolite Electronic Thedolite DT 2A	Nos	3	354,670.00	63,840.60	418510.60				
4	Prismatic compass for survey	Nos	3	12,000.00	2,160.00	14160.00				
5	Surveyor Compass FULL BRASS4 INCH WITH STAND	Nos	3	12,000.00	2,160.00	14160.00				
6	Ranging Pole	Nos	20	460,000.00	82,800.00	542800.00				
7	Chain Surveying- 30 meter	Nos	6	14,400.00	2,592.00	16992.00				
8	ESurvey cross section L section complete licence software	Nos	1	31,950.00	5,751.00	37701.00				
9	ESurvey Contours Digital terrain modelling complete licence software	Nos	1	31,950.00	5,751.00	37701.00				
10	Measuring Tape- 30 mtr	Nos	6	5,600.00	1,008.00	6608.00				
<b>CIVIL ENGINEERING LAB</b>										
<u>Concrete Technology Laboratory</u>										
A	Cement									
1	Vicat Needle Apparatus- Vicat Apparatus with ISI Certification Mark, IS:5513, fitted in Aluminium Box	Nos	6	50,550.00	9,099.00	59649.00				

2	Le Chatelier Flask	Nos	6	13,690.00	2,464.20	16154.20
3	Blaine apparatus- Air Permeability Apparatus (Blaine type) with ISI Certification mark IS:5516, fitted in Aluminium Box	Nos	4	20,260.00	3,646.80	23906.80
4	specific gravity bottle	Nos	6	5,070.00	912.60	5982.60
5	Metal Trey- 4ft X 4 ft	Nos	2	7,110.00	1,279.80	8389.80
6	Metal Trey- 1ft X 2 ft	Nos	10	3,570.00	642.60	4212.60
7	Morter Cube	Nos	15	23,980.00	4,316.40	28296.40
8	Weiging Balance- 500kg	Nos	1	17,030.00	3,065.40	20095.40
9	Weiging Balance- 50kg	Nos	1	8,730.00	1,571.40	10301.40
10	Precisin Balance- 600g-	Nos	1	10,640.00	1,915.20	12555.20
<b>B Fine aggregates</b>				-		
1	Test Sieves- 200mm dia- Brass			-		
	Test Sieve 200mm Brass Size: 4.75mm	Nos	2	2,760.00	496.80	3256.80
	Test Sieve 200mm Brass Size: 3.35mm	Nos	2	2,760.00	496.80	3256.80
	Test Sieve 200mm Brass Size: 2.36mm	Nos	2	2,760.00	496.80	3256.80
	Test Sieve 200mm Brass Size: 1.18mm	Nos	2	2,760.00	496.80	3256.80
	Test Sieve 200mm Brass Size: 900 micron	Nos	2	3,590.00	646.20	4236.20
	Test Sieve 200mm Brass Size: 600micron	Nos	2	3,590.00	646.20	4236.20
	Test Sieve 200mm Brass Size: 90micron	Nos	2	3,590.00	646.20	4236.20
	Test Sieve 200mm Brass Size: 75 Microns	Nos	2	3,800.00	684.00	4484.00
	Test Sieve 200mm Brass: Size: 60 Microns	Nos	2	4,700.00	846.00	5546.00
	Test Sieve 200mm Brass Size: 53 Microns	Nos	2	5,520.00	993.60	6513.60
	Test Sieve 200mm Brass Size: 45 Microns	Nos	2	6,210.00	1,117.80	7327.80
	Pan and Cover 200mm	Nos	2	3,800.00	684.00	4484.00
2	Rapid Moisture Meter- Speedy Moisture Meter, Range 0-25% (Gauge Div.:0.5%) with digital weighing balance	Nos	6	113,890.00	20,500.20	134390.20
3	Bulk Density Measure- 10L	Nos	6	67,470.00	12,144.60	79614.60

3/23/23

4	Mesuring Jar- Glass	Nos		-			Workshop	Working
	100ml	Nos	6	2,080.00	374.40	2454.40		
	250ml	Nos	6	2,830.00	509.40	3339.40		
	500ml	Nos	6	3,580.00	644.40	4224.40		
	1000ml	Nos	6	4,340.00	781.20	5121.20		
5	Standrd Sand- 25kg pck	1 Pack	1	2,140.00	385.20	2525.20		
6	Calcium Carbaid Powder- 500gm	1 Pack	2	1,510.00	271.80	1781.80		
C	Coarse aggregates			-				
1	Test Sieves- 300mm dia- Coarse- GI			-				
	Sieve 300mm GI Size: 40mm	Nos	2	2,240.00	403.20	2643.20		
	Sieve 300mm GI Size: 20mm	Nos	2	2,240.00	403.20	2643.20		
	Sieve 300mm GI Size: 12.5mm	Nos	2	2,240.00	403.20	2643.20		
	Sieve 300mm GI Size: 10mm	Nos	2	2,240.00	403.20	2643.20		
	Sieve 300mm GI Size: 20mm	Nos	2	2,240.00	403.20	2643.20		
	Sieve 300mm GI Size: 4.75mm	Nos	2	2,240.00	403.20	2643.20		
	Sieve 300mm GI Size: 2.36mm	Nos	2	2,240.00	403.20	2643.20		
	Pan and Cover 300mm	Nos	2	2,240.00	403.20	2643.20		
2	Hot Air Oven- Laboratory Electric Oven, with Digital Indicator Cum Controller with Safety Alarm, range 50° to 250°C +/-1°C with Air Circulating Fan, S.S. Inside Size 600 x 900 x 600mm	Nos	1	116,830.00	21,029.40	137859.40		
D	Fresh Concrete			-				
1	Slump test apparatus	Nos	2	11,000.00	1,980.00	12980.00		
2	Compaction factor apparatus	Nos	1	33,510.00	6,031.80	39541.80		
3	Vee bee consistometer	Nos	1	76,590.00	13,786.20	90376.20		
E	Hardned Concrete			-				
1	Cube Mould 15cm*15cm*15cm- Mould, Cast Iron, for 150mm Cube with ISI Certification Mark	Nos	30	145,290.00	26,152.20	171442.20		

2	Beam Mould 15cm*15cm*70cm	Nos	15	258,550.00	46,539.00	305089.00			
3	cylinder -15cm *30cm- Cylindrical Mould, Cast Iron, Split Lengthwise 150mm dia x 300mm high	Nos	15	132,570.00	23,862.60	156432.60			
Environmental Engineering									
	Instruments								
1	Jar Test Apparatus- Digital -1 litre with 6 stirrer	Nos	2	106,670.00	19,200.60	125870.60	F20	Working	23.03.2023
2	BOD Analyser capacity 500ml. Digits 3 LED	Nos	1	242,780.00	43,700.40	286480.40			
3	MUFFLE FURNACE-Heavy gauge Mild Steel construction for durability having powder coating finish,Outer Casing Made from Stainless Steel – 304 grade in all GMP Models,Temperature Sensor : “K” Type (Cr/Al) Thermocouple sensor,Working Temperature Range: 400°C to 1150°C,Operates on 230 Volts AC Single phase 50 Hz.MUFFLE SIZE-23 X 23 X 45,CAPACITY IN LTRS-23.80	Nos	1	127,530.00	22,955.40	150485.40			
4	Laboratory deep freezer- Cap 112ltr	Nos	1	73,340.00	13,201.20	86541.20			
5	Erlenmeyer Conical Flask- Borosil 250ml Narrow mouth	Nos	20	5,020.00	903.60	5923.60			
6	Burette With Boroflo stopcock, Class B-50ml	Nos	10	9,400.00	1,692.00	11092.00			
7	PIPETTES Class B-10ml	Nos	10	2,940.00	529.20	3469.20			
8	Conical Flask Narrow Mouth, With Rim-100ml	Nos	10	1,410.00	253.80	1663.80			
9	Determination of Iron.Instrument required,- UV Visible Spectrophoto Meter-Spectral bandwidth-2nm, Auto setting wave length-wave range length-190-1100nm	Nos	1	182,730.00	32,891.40	215621.40			
10	IMHOFF CONE B.G 1000ml	Nos	6	48,540.00	8,737.20	57277.20			
11	CHINA DISH (Porcelain)Dia-3"	Nos	30	1,340.00	241.20	1581.20			
12	DESICCATOR SET With Cover & Porcelain Plate-Nominal Diameter-200mm	Nos	2	38,820.00	6,987.60	45807.60			
Soil Mechanics -									
1	Laboratory Oven - Laboratory Electric Oven, Thermostatically Controlled, range 50° to 250°C +/- 3°C with Air Circulating Fan, S.S. Inside Size 450 x 450 x 450mm	Nos	1	43,990.00	7,918.20	51908.20			
2	Liquid Limit device- Liquid Limit Device, Hand Operated, with Casagrande grooving tools and gauge block.	Nos	3	21,520.00	3,873.60	25393.60			
3	Core cutter with dolly and rammer	Nos	2	8,350.00	1,503.00	9853.00			
4	Soil permeability apparatus	Nos	1	47,860.00	8,614.80	56474.80			
5	Direct shear test apparatus- Digital Direct Shear Test Apparatus, 2kN	Nos	1	240,280.00	43,250.40	283530.40			

6	Unconfined compression test apparatus- Unconfined Compression Tester for load measurement, supplied with AIM 062-1 Load Frame 3 speed 50 kN, AIM 264 Proving Ring, 2kN and AIM 072 Dial Gauge, 0.01x25mm & AIM 07401 Plain Platen with adaptor, AIM 03105 Split Mould and AIM 07506 Rubber Sheath	Nos	1	165,040.00	29,707.20	194747.20	G12	Working	23.03.2023
7	Vane shear test apparatus- motorized	Nos	1	35,770.00	6,438.60	42208.60			
8	Triaxial shear test apparatus- Triaxial Outfit Analog	Nos	1	366,360.00	65,944.80	432304.80			
9	Standard proctor test apparatus	Nos	1	17,190.00	3,094.20	20284.20			
10	Weight balance- Capacity 30kg digital	Nos	1	12,250.00	2,205.00	14455.00			
11	sand replacement method- 100mm dia	Nos	2	15,970.00	2,874.60	18844.60			
12	Soil hydrometer-Range : 0.995 to 1	Nos	1	1,090.00	196.20	1286.20			
<b>Transportation Engineering -1</b>									
A	Tests on aggregate			-					
1	Aggregate Impact Value	Nos	1	29,760.00	5,356.80	35116.80	G12	Working	23.03.2023
2	abrasion testing apparatus	Nos	1	112,180.00	20,192.40	132372.40			
3	Aggregate Crushing value	Nos	1	27,710.00	4,987.80	32697.80			
4	shape test apparatus	Nos	2	25,120.00	4,521.60	29641.60			
5	Accelerated polishing machine	Nos	1	72,730.00	13,091.40	85821.40			
6	Le- chatelier flask	Nos	1	2,310.00	415.80	2725.80			
7	Abrasion Sand	Nos	1	140.00	25.20	165.20			
8	Weighing Balance- 200kg	Nos	1	12,570.00	2,262.60	14832.60			
9	Hot Air Oven- Laboratory Electric Oven, Thermostatically Controlled, Range 50°C to 300°C +/- 3°C with Air Circulating Fan, S.S. Inside, size 600x600x600mm	Nos	1	72,530.00	13,055.40	85585.40			
B	Tests on Bitumen			-	-				
1	Bitumen Penetrometer	Nos	6	214,790.00	38,662.20	253452.20	G12	Working	23.03.2023
2	Ductility apparatus- Ductility Testing Machine with Digital Temp Indicator	Nos	1	104,950.00	18,891.00	123841.00			
3	softening point apparatus	Nos	2	41,230.00	7,421.40	48651.40			
4	Bitumen extractor- Centrifuge Extractor, Capacity 1500g Electrically Operated	Nos	1	70,110.00	12,619.80	82729.80			

5	Water Bath- Water Bath, Rectangular, Double Walled, Inside Stainless Steel, Thermostatically Controlled,Temp.Range Amb. +5°C. to 95°C +/- 0.5°C size 300x250x100mm (6 holes of 75mm dia)	Nos	1	18,480.00	3,326.40	21806.40			
6	Flash point tester	Nos	1	22,900.00	4,122.00	27022.00			
C Demonstration				-					
1	Sand tar viscometer- Standard Tar Viscometer, 10mm cup and ball valve	Nos	1	22,180.00	3,992.40	26172.40			
2	Marshalls stbility test apparatus- Analogue Marshall Apparatus, 50kN for 4" dia sample	Nos	1	173,580.00	31,244.40	204824.40			
Miscellaneous									
1	Spatula- Heavy	Nos	6	1,470.00	264.60	1734.60	G12		
2	Ghamela- plastic	Nos	6	2,940.00	529.20	3469.20			
3	Plastic Jar- 1 litre	Nos	2	490.00	88.20	578.20			
4	Plastic Jar- 5 litre	Nos	2	980.00	176.40	1156.40			
5	Spanners-regular	Nos	3	370.00	66.60	436.60			
6	Spanners- T shape	Nos	3	370.00	66.60	436.60			
Electrical and Electronics Engineering									
Equipment									
1	Electrical Safety Trainer + Accessories HSN 902300010	Nos	2	7,650.00	2,754.00	18054.00	F19	Working	1/23/24
2	Transient Analysis R-L/ R-C, and R-L-C circuits HSN90230090	Nos	2	3,740.00	1,346.40	8826.40			
3	Study of LCR circuits with an AC source having Power Amplifier with power supply and 1 digital meter HSN902300010	Nos	2	7,565.00	2,723.40	17853.40			
4	Study of Transformer (Singlr Phase Transformer trainer) HSN902300010	Nos	2	9,350.00	3,366.00	22066.00			
5	DC Torque Speed Characteristics HSN 90230010	Nos	2	36,337.50	13,081.50	85756.50			
6	Three Phase Transformer Educational Trainer HSN 9023	Nos	2	52,275.00	18,819.00	123369.00			
7	Single and Three Phase Resistive load HSN 9023	Nos	2	40,630.00	14,626.80	95886.80			
8	P3- Variac-Three Phase Portable Table/Floor HSN 9023	Nos	2	18,669.40	6,720.98	44059.78			
9	Diode and Zener Diode Characteristics (with Power supply and two dual range meters) HSN 90230010	Nos	2	6,970.00	2,509.20	16449.20			

10	Junction Diode rectifier and Filter Characteristics with power supply and two meters HSN9023	Nos	2	9,435.00	3,396.60	22266.60			
11	Transistor Amplifier Demonstrator HSN 9023	Nos	2	3,060.00	1,101.60	7221.60			
12	Zener Diode Voltage Regulator HSN85411000	Nos	2	5,525.00	1,989.00	13039.00			
13	RLC Resonance Trainer HSN 9023	Nos	2	16,401.60	5,904.58	38707.78			
				12,580,448.5	2,303,650.26	15,101,707.26			

Compuer Labs

Sr. No.	DESCRIPTION	Unit	QNT	Location	Present Condition
1	Computers	Nos	48	F-03	Working
2	Computers	Nos	41	S-04	
3	Computers	Nos	61	G-16	
4	Computers	Nos	61	F-11	
5	Computers	Nos	61	S-11	
6	Computers	Nos	46	F-22	
7	Computers	Nos	52	S-21	
8	Computers	Nos	53	B-04	
9	Computers	Nos	56	C-03	
10	Computers	Nos	55	C-04	
	Total		534		

Note: Computer Configuration: Core i5, 16 / 8 GB RAM, 1TB /500 GB Harddisk, 24" / 19.5" TFT, Keyboard, Mouse, Windows 10/11 Profess

### **Games & Sports Facilities:**

Well-equipped sports facilities exist for indoor and outdoor sports such as badminton, table tennis, Chess, Carom Board etc. Students are encouraged to participate in intra and inter-college co-curricular and sports competitions. Separate well-equipped gymnasia are available for girls and boys, assisted by qualified gym instructor. An international sports stadium is just across the road and students can access their swimming pools, gymnasia, field tracks and other facilities on payment basis.

### **Outdoor Games:**

S. No	Play Ground	Total Number
01	Badminton Court	04
02	For playing cricket, football, field tracks. The university has an arrangement with nearby sports centres/ stadium as and when required on payment basis.	

### **Indoor Games:**

S. No	Descriptions	Total Number/ Unites
01	Table Tennis	04
02	Carrom	05
03	Chess	02

### **Gymnasium:**

S. No	Play Ground	Area	Total Number	Equipment Installed
01	Boys Gymnasium	14.01 mtr (L) 6.10 mtr (W)	03	Treadmills
			01	Elliptical Cross Trainer
02	Girls Gymnasium	9.30 mtr (W) 8.65 mtr (L)	04	Upright Bike/Cycle
			01	Cable Crossover
			01	Bench Press Machine (Boys)
			01	Shoulder Press Machine (Boys)
			01	Pec Deck Machine (Boys)
			10	Yoga Mat
			02	Zigzag Bar

			01	Squats rack
			01	Pullups Bar
			02	Dumbbells Rack
			01	Lat Pully
			01	Leg Extension & Calf
			01	Flip Tyre
			02	Step Board
			01	Calf Raises Machine
			02	Bar Stand
			01	Bench Press
			02	Back Extension
			02	Smith Machines
			05	Super Bench
			02	Skipping Rope
			01	Battle Rope
			01	Plate Stand
			02	Weighing Scale
			01	Weight Sled Hammer
			02	Air Rower Machine
			02	Stool
			02	Preacher Curl Machine