

प्रेषक,

प्रधानाचार्य,
राजकीय पालीटेक्निक,
जटवाडा, जानसठ, मुजफ्फरनगर।

सेवा में,

निदेशक,
प्राविधिक शिक्षा,
उत्तर प्रदेश, कानपुर

पत्रांक संख्या: 167 /AICTE मानक बजट आंकलन/2022

दिनांक: 12.04.2022

विषय:- AICTE मानक के अनुसार संस्थान में इंगित कमियों के निराकरण के संबंध में।


महोदय,

सादर अवगत कराना है कि निदेशालय द्वारा दिनांक 08.04.2022 को प्राप्त ई-मेल के तारतम्य में आपके द्वारा मांगी गयी सूचना, जिसमें कि AICTE मानकों के अनुसार संस्थान में इंगित कमियों के निराकरण का उचित प्रकार आंकलन कर प्रदत्त निर्धारित प्रारूप पर हार्ड कॉपी/सॉफ्ट कॉपी (एक्सेल) में डाटा तैयार कर आपके सुलभ संदर्भ हेतु प्रेषित किया जा रहा है।

सादर।


भवदीय

संलग्नक:- उपरोक्तानुसार


(आकाश वाजपेयी)
प्रधानाचार्य
राजकीय पालीटेक्निक
जानसठ (मुजफ्फरनगर)

पत्रांक व दिनांक- तदैव;

प्रतिलिपि:- निम्नलिखित को सादर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
संयुक्त निदेशक, प्राविधिक शिक्षा, पश्चिमी क्षेत्र, दौराला, मेरठ।


(आकाश वाजपेयी)
प्रधानाचार्य
राजकीय पालीटेक्निक
जानसठ (मुजफ्फरनगर)

संस्थान में कमियों के निराकरण हेतु आवश्यक बजट का आकलन

Sr. No.	Institute Code	Institute Name	Fields	Particulars Select only where Deficiency exist only	Available in Institutions(YES/NO)	Required as AICTE(YES/NO)	New Construction Required Yes/ No	Quantity	Area Required(in Sq. Meter)	Total Area Required(Sq. Meter)(column 9* column 10)	Budget Requirements for removing deficiency(in lacks only)	If Any
1	2	3	4	5	6	7	8	9	10	11	12	13
1	1003		Infrastructure	Board Room	YES	YES	NO	-	-	-	-	-
2			Infrastructure	Department Offices/Cabin for Head of Dept	YES	YES	YES	1	15	15	150000	-
3			Infrastructure	Central Store	YES	YES	NO	-	-	-	-	-
4			Infrastructure	Exam Control Office	YES	YES	NO	-	-	-	-	-
5			Infrastructure	Housekeeping	YES	YES	NO	-	-	-	-	-
6			Infrastructure	Maintenance	YES	YES	NO	-	-	-	-	-
7			Infrastructure	Office All Inclusive	YES	YES	NO	-	-	-	-	-
8			Infrastructure	Placement Office	YES	YES	NO	-	-	-	-	-
9			Infrastructure	Principal Directors Office	YES	YES	NO	-	-	-	-	-
10			Infrastructure	Security	NO	YES	YES	1	10	10	1,00,000	-
11			Infrastructure	Boys Common Room	YES	YES	YES	1	75	75	750000	-
12			Infrastructure	Cafeteria	NO	YES	YES	1	150	150	1500000	-
13			Infrastructure	First aid cum Sick Room	YES	YES	NO	-	-	-	-	-
14			Infrastructure	Girls Common Room	YES	YES	YES	1	75	75	750000	-
15			Infrastructure	Stationery Store	YES	YES	NO	-	-	-	-	-
16			Infrastructure	Computer Center	YES	YES	NO	-	-	-	-	-
17			Infrastructure	Library & Reading Room	YES	YES	YES	1	150	150	1500000	-
18			Infrastructure	Language Laboratory	YES	YES	NO	-	-	-	-	-
19			Infrastructure	Language Laboratory	YES	YES	NO	-	-	-	-	-
20			Infrastructure	Classroom	YES	YES	YES	1	12	12	120000	-
21			Infrastructure	Tutorial Room	YES	YES	YES	1	66	66	660000	-
22			Infrastructure	Seminar Hall	NO	YES	YES	1	132	132	1320000	-
23			Infrastructure	Workshop/ Studio	YES	YES	NO	-	-	-	-	-
24			Infrastructure	Common Workshop/ Studio	YES	YES	NO	-	-	-	-	-
25			Infrastructure	Studio / Display Room	NO	NO	NO	NIL	NIL	NIL	NIL	NIL

26	Infrastructure	Craft Centre	NO	NO	NO	NIL	NIL	NIL	NIL	-
27	Infrastructure	Resource Centre	NO	NO	NO	NIL	NIL	NIL	NIL	-
28	Infrastructure	Art Court	NO	NO	NO	NIL	NIL	NIL	NIL	-
29	Infrastructure	Multi-Purpose Hall	NO	YES	YES	1	300	300	3000000	-
30	Infrastructure	Studio	NO	NO	NO	NIL	NIL	NIL	NIL	-
31	Infrastructure	Computer Laboratory	NO	NO	NO	NIL	NIL	NIL	NIL	-
32	Other Facilities	Sewage Disposal System	YES	YES	NO	-	-	-	-	-
33	Other Facilities	Telephone	YES	NO	NO	-	-	-	-	-
34	Other Facilities	Vehicle Parking	NO	YES	YES	1	-	-	500000	-
35	Other Facilities	Backup Electric Supply	YES	YES	YES	1(20 KW)	-	-	200000	-
36	Other Facilities	Potable Water Supply	NO	YES	YES	3	-	-	45,000	-
37	Computational Facilities	Printers	YES	YES	NO	3	-	-	75000	-
38	Computational Facilities	A1 size Color Printers	NO	NO	NO	NIL	NIL	NIL	NIL	-
39	Computational Facilities	PCs in Language lab	NO	YES	YES	20	-	-	2000000	-
40	Computational Facilities	Legal Application S/W	NO	YES	YES	18	-	-	100000	-
41	Computational Facilities	Legal System S/W	NO	YES	YES	3	-	-	30,000	-
42	Computational Facilities	PCs to Student ratio	NO	YES	YES	90	-	-	9000000	-
43	Library Facilities	Volumes	YES	YES	YES	1460	-	-	219000	-
44	Library Facilities	Titles	YES	YES	YES	245	-	-	245000	-
45	Library Facilities	Journals	NO	YES	YES	9	-	-	90000	-
46	Library Facilities	Library Management Software	NO	YES	YES	1	-	-	100000	-
47	Library Facilities	Reading Room Seating Capacity	NO	YES	YES	1	81	81	810000	-
48	Library Facilities	MultiMediaPC	NO	YES	YES	10	-	-	1000000	-
49	Other Facilities	Fire and safety	NO	YES	YES	1 SET UP	-	-	2500000	-

OLYTECHNIC JATWADA, JANSATH, MUZAFFARNAGAR

50	Other Facilities	Barrier free Environment	NO	YES	YES	2 FLOOR RAMP	-	-	1000000	-
51		Other Facilities	Notice Board	YES	NO	NO	-	-	-	-
52	Lab Equipments APPLIED PHYSICS (Common to all Branches)	Vernier calipers Working length 160 mm, Internal and external dia with locking arrangement	NO	YES	YES	12	-	-	2000	-
53		Screw Gauges Working length 15 mm, pitch 0.5 mm, least count .005 mm	NO	YES	YES	12	-	-	2000	-
54		Spherometers Distance between legs 2.5 mm, pitch 0.5 mm, least count .005 mm.	NO	YES	YES	12	-	-	2000	-
55		Mirrors (convex, concave)	NO	YES	YES	5 Each	-	-	1500	-
56		Pendulum Setup	NO	YES	YES	2	-	-	4000	-
57		Gravesand's Apparatus	NO	YES	YES	2	-	-	3000	-
58		Inclined Plane Setup	NO	YES	YES	2	-	-	2000	-
59		Flywheel Setup	NO	YES	YES	2	-	-	4000	-
60		Prism	NO	YES	YES	5	-	-	1500	-
61		Spectrometer	NO	YES	YES	2	-	-	25000	-
62		DC Ammeters Moving coil weston-type ammeter with ebonite stand	NO	YES	YES	10	-	-	3500	-
63		DC Miliammeters	NO	YES	YES	2	-	-	1000	-
64		DC Microammeters	NO	YES	YES	2	-	-	700	-
65		DC voltmeters	NO	YES	YES	10	-	-	700	-
66		DC Millivoltmeters	NO	YES	YES	10	-	-	2000	-
67		Sensitivity Galvanometer	NO	YES	YES	2	-	-	800	-
68		Student Galvanometers	NO	YES	YES	10	-	-	4000	-
69	Demonstration type DC Ammeters Range; 0 to 1 Amp.	NO	YES	YES	2	-	-	1000	-	

GOVERNMENT PG

70	D type DC Voltmeter Range : 0 to 1 Volt	NO	YES	YES	2	-	-	1000	-
71	D type Galvanometers Sensitivity : 20 microamperes per scale division,	NO	YES	YES	8	-	-	8000	-
72	Resistance boxes (dial type) assorted	NO	YES	YES	8	-	-	8000	-
73	Rheostats	NO	YES	YES	10	-	-	4	-
74	Miscellaneous items (Spring, Pan, Glycerine, Optic fibre, Ferromagnetic material)	NO	YES	YES	LS	-	-	2000	-
75	Fortin's Barometer (Wall type)	NO	YES	YES	2	-	-	20000	-
76	Stoke's Apparatus	NO	YES	YES	2	-	-	10000	-
77	Gumther's Apparatus	NO	YES	YES	2	-	-	16000	-
78	Resonance Tube Apparatus with accessories and Tuning fork set	NO	YES	YES	2	-	-	14000	-
79	Sodium Lamp setup with Biprism	NO	YES	YES	2	-	-	10000	-
80	Ohmic resistance coil	NO	YES	YES	10	-	-	5,00	-
81	Slide wire bridge	NO	YES	YES	2	-	-	8000	-
82	PN Junction diode Apparatus	NO	YES	YES	2	-	-	10000	-
83	Laser (as per requirement)	NO	YES	YES	1	-	-	100000	-
84	Numerical aperture setup	NO	YES	YES	1	-	-	25000	-
85	Miscellaneous	NO	YES	YES	LS	-	-	3000	-
86	Digital Balance	NO	YES	YES	1	-	-	80,000	-
87	Burette 50ml	NO	YES	YES	30	-	-	3,000	-
88	Pipette 25ml	NO	YES	YES	60	-	-	4,000	-
89	Beakers 100ml	NO	YES	YES	60	-	-	4,000	-
90	Burette stand	NO	YES	YES	30	-	-	30,000	-
91	Glazed tile	NO	YES	YES	30	-	-	1,000	-
92	Conical flask 50ml (Titration flask)	NO	YES	YES	60	-	-	4,000	-
93	Standard (Measuring) flask (to prepare standard solution) 250ml/100ml	NO	YES	YES	30	-	-	6,000	-
94	Able's Flash Point apparatus	NO	YES	YES	2	-	-	10,000	-
95	(1/10)°C thermometer	NO	YES	YES	6	-	-	6,000	-
96	Candles	NO	YES	YES	20	-	-	100	-
97	Crucible with lid	NO	YES	YES	6	-	-	2,000	-

**Lab Equipments
APPLIED
CHEMISTRY**

98	COMMON TO ALL (Common to all Branches)	Muffle furnace	NO	YES	YES	1	-	-	18,000	-
99		Decicators	NO	YES	YES	6	-	-	8,000	-
100		Pair of tongue (small and big)	NO	YES	YES	24 (small)	-	-	2,000	-
101			NO	YES	YES	2 (big)	-	-		-
102	ENGINEERING DRAWING (Mechanical Engg.) Lab Equipments (Common to all Branches)	Chemicals - EDTA-1 kg - Eriochrome Black-T(solochrome black T)- 200g - Buffer solution (NH3 - 2.5 ltr, NH4Cl – 1 kg) - Zinc sulphate- 500g - H2SO4- 2.5 ltr - Phenolphthalein indicator (as per requirement) - Methyl orange indicator (as per requirement) - Charcoal (as per requirement) - Kerosene- 1 ltr	NO	YES	YES	LS	-	-	20,000	-
103		Miscellaneous	NO	YES	YES	LS	-	-	2,000	-
104		Drawing Boards (700 x 500mm)	NO	YES	YES	60	-	-	25,000	-
105		Draughtsman Tables	NO	YES	YES	60	-	-	1,80,000	-
106		Draughtsman Stools	NO	YES	YES	60	-	-	40,000	-
107		Computer Aided Drawing (CAD) Software	NO	YES	YES	30 user	-	-	5,00,000	-
108		Model of different wooder joints	NO	YES	YES	1	-	-	1,000	-
109		Model of different screw threads	NO	YES	YES	1	-	-	1,000	-
110		Model of various locking devices	NO	YES	YES	1	-	-	1,000	-
111		Model of various joints	NO	YES	YES	1	-	-	1,000	-
112		Cut section Model of various couplings	NO	YES	YES	1	-	-	3,000	-
113		Miscellaneous	NO	YES	YES	LS	-	-	5,000	-
114		APPLIED MECHANICS LAB Equipments	Polygon law of forces apparatus	NO	YES	YES	1	-	-	2,000
115	Jib crane		NO	YES	YES	1	-	-	4,000	-
116	Apparatus for reaction at supports		NO	YES	YES	1	-	-	5,000	-
117	Inclined plane and friction apparatus		NO	YES	YES	1	-	-	2,500	-
118	Screw jack		NO	YES	YES	1	-	-	1,000	-
119	Worm and worm wheel		NO	YES	YES	1	-	-	3,500	-
120	Single Purchase Winch Crab		NO	YES	YES	1	-	-	4,000	-
121	Miscellaneous		NO	YES	YES	LS	-	-	1,000	-
122		Work benches fitted with carpenter vices	NO	YES	YES	5	-	-	20000	-

123	CARPENTRY SHOP Equipments (Common to all Branches)	Circular saw grinder	NO	YES	YES	1	-	-	6000	-
124		Wood cutting band saw-vertical	NO	YES	YES	1	-	-	10000	-
125		Bench grinder	NO	YES	YES	1	-	-	5000	-
126		Drilling machine	NO	YES	YES	1	-	-	8000	-
127		Wood turning lathe	NO	YES	YES	1	-	-	40000	-
128		Wood Planner	NO	YES	YES	1	-	-	20000	-
129		Tool accessories measuring and marking Instruments	NO	YES	YES	25	-	-	25000	-
130		Band saw blade brazing unit	NO	YES	YES	1	-	-	10000	-
131		Miscellaneous	NO	YES	YES	LS	-	-	1500	-
132	PAINTING & POLISHING SHOP Equipments (Common to all Branches)	Spray gun with hose pipe	NO	YES	YES	1	-	-	1000	-
133		Paint brushes	NO	YES	YES	20	-	-	2000	-
134		Paint/Varnish	NO	YES	YES	LS	-	-	2000	-
135		Air Compressor with 2 hp motor	NO	YES	YES	1 set	-	-	10000	-
136		Miscellaneous	NO	YES	YES	LS	-	-	2000	-
137	SMITHY SHOP Lab Equipments (Common to all Branches)	Black smithy forge (with open hearths, accessories to match the forge)	NO	YES	YES	20	-	-	40000	-
138		Wrought iron anvils	NO	YES	YES	20	-	-	20000	-
139		Swage blocks	NO	YES	YES	4	-	-	8000	-
140		Blower with accessories, motor switch etc	NO	YES	YES	1	-	-	6000	-
141		Work benches with vices	NO	YES	YES	2	-	-	6000	-
142		Power hammer	NO	YES	YES	1	-	-	20000	-
143		Tools and accessories – hammers, swages, tongs, pokers, pullers etc	NO	YES	YES	20	-	-	10000	-
144		Miscellaneous	NO	YES	YES	LS	-	-	1500	-
145		Work benches with vices (4 vices on each bench)	NO	YES	YES	5	-	-	30000	-
146		Marking tables with scribers	NO	YES	YES	4	-	-	24000	-
147		Surface plates	NO	YES	YES	5	-	-	20000	-
148		Accessories like calipers, V blocks, height, gauges steel	NO	YES	YES	25	-	-	50000	-
149		Tool kits – taps, dies, drills	NO	YES	YES	25	-	-	40000	-

150	FITTING & PLUMBING SHOP Equipments (Common to all Branches)	Tool kits – chiesels, hammers, files, hacksaw	NO	YES	YES	25	-	-	25000	-
151		Drilling machine	NO	YES	YES	2	-	-	12000	-
152		Pipe vice	NO	YES	YES	4	-	-	1000	-
153		Chain wrenches	NO	YES	YES	5	-	-	1250	-
154		Ring spanner set	NO	YES	YES	5	-	-	600	-
155		Pipe die set 2”	NO	YES	YES	2 set	-	-	1000	-
156		Pipe bending device	NO	YES	YES	1	-	-	5000	-
157		Various plumbing fittings	NO	YES	YES	LS	-	-	2000	-
158		Miscellaneous	NO	YES	YES	LS	-	-	1500	-
159		Sheet Metal Shop Equipments (Common to all Branches)	Hammers	NO	YES	YES	8	-	-	3000
160	Mallets (Hard & Soft)		NO	YES	YES	5	-	-	2000	-
161	Sheet and wire Ganges		NO	YES	YES	LS	-	-	800	-
162	Shearing Machine		NO	YES	YES	1	-	-	20000	-
163	Bar folding Machine		NO	YES	YES	1	-	-	20000	-
164	Burring machine		NO	YES	YES	1	-	-	10000	-
165	Various sheet (black plain, galvanized iron, corrugated,		NO	YES	YES	1 Each	-	-	1000	-
166	Hand Shears/Snippers		NO	YES	YES	4	-	-	2000	-
167	Nuts, Bolts, Rivets, Screw		NO	YES	YES	LS	-	-	500	-
168	Miscellaneous		NO	YES	YES	LS	-	-	1000	-
169		Electrical welding transformer set with accessories	NO	YES	YES	3	-	-	30000	-
170		Gas Cutting Unit	NO	YES	YES	1	-	-	3000	-

171	Welding Shop Equipments (Common to all Branches)	Work benches with vices	NO	YES	YES	3	-	-	5000	-
172		Welding generator set	NO	YES	YES	1	-	-	10000	-
173		Oxy acetylene welding set with accessories	NO	YES	YES	1	-	-	7000	-
174		Acetylene generating set	NO	YES	YES	1	-	-	6000	-
175		Electric welder tool kit	NO	YES	YES	10	-	-	10000	-
176		Projection welding machine	NO	YES	YES	1	-	-	15000	-
177		Brazing equipment with accessories	NO	YES	YES	1	-	-	10000	-
178		Soldering irons	NO	YES	YES	3	-	-	1000	-
179		Pedestal grinder	NO	YES	YES	1	-	-	10000	-
180		Metal spraying gun	NO	YES	YES	1	-	-	10000	-
181		Spot welder	NO	YES	YES	1	-	-	25000	-
182		TIG welding set	NO	YES	YES	1	-	-	100000	-
183		MIG welding set	NO	YES	YES	1	-	-	100000	-
184		Welding Partition Screen	NO	YES	YES	5	-	-	2500	-
185		Miscellaneous	NO	YES	YES	LS	-	-	3000	-
186	Foundry Shop Equipments (Common to all Branches)	Moulding boxes	NO	YES	YES	40	-	-	8000	-
187		Ladles	NO	YES	YES	5	-	-	2000	-
188		Tool Kits	NO	YES	YES	10 set	-	-	5000	-
189		Quenching tanks	NO	YES	YES	2	-	-	5000	-
190		Portable grinder	NO	YES	YES	1	-	-	3000	-
191		Pit furnace with blower	NO	YES	YES	1	-	-	10000	-

192		Miscellaneous	NO	YES	YES	LS	-	-	3000	-	
193	Machine Shop Equipments (Common to all Branches)	Centre lathes	NO	YES	YES	10	-	-	600000	-	
194		Grinder	NO	YES	YES	1	-	-	10000	-	
195		Universal milling machine	NO	YES	YES	1	-	-	125000	-	
196		Shaper	NO	YES	YES	2	-	-	120000	-	
197		Plainer	NO	YES	YES	2	-	-	120000	-	
198		Work bench	NO	YES	YES	3	-	-	10000	-	
199		Precision instruments	NO	YES	YES	1	-	-	10000	-	
200		Hand tools and accessories	NO	YES	YES	2	-	-	8000	-	
201		CNC trainer lathe	NO	YES	YES	1	-	-	400000	-	
202		Miscellaneous	NO	YES	YES	LS	-	-	5000	-	
203		Engineering Material Lab Equipments	Electric furnace muffle type	NO	YES	YES	1	-	-	60,000	-
204			Forced circulation tempering furnace	NO	YES	YES	1	-	-	30,000	-
205	Quenching tank		NO	YES	YES	2	-	-	5,000	-	
206	Grinder		NO	YES	YES	2	-	-	4,000	-	
207	Pyrometers		NO	YES	YES	1	-	-	10,000	-	
208	Specimen Kit (Ferrous and Non-ferrous Metals (25 Nos)		NO	YES	YES	1	-	-	5,000	-	
209	Metallurgical microscope		NO	YES	YES	3	-	-	35,000 each	-	
210	Abrasive cut off machine		NO	YES	YES	1	-	-	50,000	-	
211	Specimen Polishing Machine (Double Disk type)		NO	YES	YES	1	-	-	50,000	-	
212	Thermocouples		NO	YES	YES	2	-	-	5,000	-	

213		Set of Specimen of different alloys	NO	YES	YES	1	-	-	5,000	-
214		Brinell Hardness Tester	NO	YES	YES	1	-	-	80,000	-
215	MECHANICAL ENGINEERING DRAWING Lab equipments	Working Model of Oldham's Coupling	NO	YES	YES	1	-	-	3,000	-
216		Working Model of Universal Coupling	NO	YES	YES	1	-	-	3,000	-
217		Plummer Block	NO	YES	YES	1	-	-	2,000	-
218		Screw Jack	NO	YES	YES	1	-	-	3,000	-
219		Connecting Rod	NO	YES	YES	1	-	-	3,000	-
220		Set of Ball and Roller bearing	NO	YES	YES	01 set	-	-	1,000	-
221		STRENGTH OF MATERIALS LABORATORY Equipments	Brinell and Rockwell hardness tester	NO	YES	YES	1	-	-	60,000
222	Impact testing machine (Izod and charpy)		NO	YES	YES	1	-	-	50,000	-
223	Microprocessor based universal testing machine		NO	YES	YES	1	-	-	4,00,000	-
224	Torsion testing machine (fully computerized)		NO	YES	YES	1	-	-	2,00,000	-
225	Spring Stiffness Tester		NO	YES	YES	1	-	-	50,000	-
226	SFD & BMD apparatus		NO	YES	YES	2	-	-	5,000	-
227		Centre lathes	NO	YES	YES	10	-	-	5,00,000	-
228		Tool room lathe	NO	YES	YES	1	-	-	1,00,000	-
229		Lathe with copy turning attachment and other attachments	NO	YES	YES	1	-	-	1,50,000	-
230		Universal milling machine	NO	YES	YES	1	-	-	1,25,000	-
231		Vertical milling machine	NO	YES	YES	1	-	-	75,000	-
232		Shapers	NO	YES	YES	2	-	-	1,00,000	-
233		Radial drilling machine	NO	YES	YES	1	-	-	25,000	-

234	Mechanical Workshop Equipments	Upright drilling machine	NO	YES	YES	1	-	-	20,000	-
235		Gear Shaper	NO	YES	YES	1	-	-	75,000	-
236		Centreless grinder	NO	YES	YES	1	-	-	80,000	-
237		Universal cylindrical grinder	NO	YES	YES	1	-	-	75,000	-
238		Hydraulic surface grinder	NO	YES	YES	1	-	-	50,000	-
239		Tool and Cutter grinder	NO	YES	YES	1	-	-	50,000	-
240		Power hacksaw	NO	YES	YES	1	-	-	25,000	-
241		Pedestal grinder	NO	YES	YES	1	-	-	5,000	-
242		Electro discharge machine	NO	YES	YES	1	-	-	4,00,000	-
243		Work bench	NO	YES	YES	3	-	-	6,000	-
244		Precision instruments	NO	YES	YES	1	-	-	5,000	-
245		Surface plates	NO	YES	YES	2	-	-	15,000	-
246		Hand tools and accessories	NO	YES	YES	2	-	-	6,000	-
247		CNC trainer lathe	NO	YES	YES	1	-	-	3,00,000	-
248		CNC trainer milling machine	NO	YES	YES	1	-	-	4,00,000	-
249		PC Computer	NO	YES	YES	2	-	-	1,00,000	-
250		Computer based NC Programming Software	NO	YES	YES	1	-	-	1,50,000	-
251		CNC Simulation software	NO	YES	YES	1	-	-	1,00,000	-
252		CNC Milling machine accessories and holding devices	NO	YES	YES	LS	-	-	1,00,000	-
253		Piezometer tube	NO	YES	YES	2	-	-	100	-
254		U tube differential manometer	NO	YES	YES	2	-	-	2,000	-

255	HYDRAULICS & PNEUMATIC LABORATORY Equipments	Bourdon's Tube pressure gauge	NO	YES	YES	1	-	-	1,000	-
256		Hydraulic jack	NO	YES	YES	1	-	-	4,000	-
257		Hydraulic press Working Model	NO	YES	YES	1	-	-	5,000	-
258		Bernoulli's apparatus	NO	YES	YES	1	-	-	15,000	-
259		Venturimeter apparatus with differential manometer	NO	YES	YES	1	-	-	10,000	-
260		Pipe friction apparatus	NO	YES	YES	1	-	-	15,000	-
261		Reciprocating pump- single and Double Acting	NO	YES	YES	1	-	-	50,000	-
262		Centrifugal pump	NO	YES	YES	1	-	-	25,000	-
263		Working Model of Pelton Wheel Turbine	NO	YES	YES	1	-	-	20,000	-
264		Working Model of Francis Turbine	NO	YES	YES	1	-	-	20,000	-
265		Working Model of Kaplan Turbine	NO	YES	YES	1	-	-	20,000	-
266		Hydraulic Circuit Trainer Kit	NO	YES	YES	1	-	-	50,000	-
267		Pneumatic Circuit Trainer Kit	NO	YES	YES	1	-	-	50,000	-
268		Working Model of Hydraulic Brake system	NO	YES	YES	1	-	-	50,000	-
269		Working Model of Hydraulic Ram	NO	YES	YES	1	-	-	5,000	-
270		Throttling Calorimeter	NO	YES	YES	2	-	-	10,000	-
271		Testing for Determination of Dryness fraction of steam	NO	YES	YES	1	-	-	50,000	-
272		Cut section model of 4-stroke single cylinder Petrol and Diesel engine	NO	YES	YES	1	-	-	30,000	-
273		Gravimetric Analysis	NO	YES	YES	1	-	-	20,000	-
274	Model of Various Boiler Mounting and Accessories -Steam Stop Valve, Safety Valves, Blow off Cock,	NO	YES	YES	1 each	-	-	10,000	-	
275	Exhaust Analyser for Petrol and Diesel engine	NO	YES	YES	1 each	-	-	25000 each	-	

276	THERMAL ENGINEERING LABORATORY Equipments	Single Stage Reciprocating Air Compressor	NO	YES	YES	1	-	-	50,000	-
277		Rotary Compressor, Air Compressor	NO	YES	YES	1	-	-	25,000	-
278		Flash Point Apparatus	NO	YES	YES	1	-	-	10,000	-
279		Pyrometer, Infrared, Thermocouple	NO	YES	YES	2	-	-	5,000	-
280		Lancashire boiler model, Nestler Boiler Model	NO	YES	YES	1 each	-	-	10,000	-
281		Model of impulse turbine	NO	YES	YES	1	-	-	5,000	-
282		Model of reaction turbine	NO	YES	YES	1	-	-	5,000	-
283		Model of surface condenser	NO	YES	YES	1	-	-	5,000	-
284		Bab Cox & Wilcox Boiler Model	NO	YES	YES	1	-	-	10,000	-
285		Heat Transfer apparatus for conduction , convection and Radiation	NO	YES	YES	1 set	-	-	45,000	-
286		Model of 2 stroke, 4 stroke engines	NO	YES	YES	01 set	-	-	6000	-
287		Steam Separating & Throttling calorimeter fully instrumented to determine, quality of steam of 10-15 kg/cm ² . Pressure with steam condensing arrangement	NO	YES	YES	01	-	-	30,000	-
288		Single cylinder 2 stroke petrol engine test rig	NO	YES	YES	1	-	-	45,000	-
289		Single cylinder 4 stroke petrol engine test rig	NO	YES	YES	1	-	-	50,000	-
290		Multicylinder petrol engine test rig (Morse test rig)	NO	YES	YES	1	-	-	2,00,000	-
291		Digital vernier calliper / Vernier calliper	NO	YES	YES	4	-	-	8,000	-
292		Digital micrometer / micrometer	NO	YES	YES	4	-	-	10,000	-
293		Height gauge	NO	YES	YES	2	-	-	1,500	-
294		Depth gauge	NO	YES	YES	2	-	-	1,000	-
295		Combination set	NO	YES	YES	1	-	-	1,000	-
296	Bevel protractor	NO	YES	YES	1	-	-	1,000	-	

297	Metrology Lab Equipments	Sine bar	NO	YES	YES	1	-	-	1,000	-
298		Precision balls and rollers	NO	YES	YES	1	-	-	500	-
299		Surface plate	NO	YES	YES	2	-	-	15,000	-
300		Slip gauges set	NO	YES	YES	1	-	-	10,000	-
301		Comparator – Mechanical , Pneumatic	NO	YES	YES	2	-	-	40,000	-
302		Gear tooth vernier	NO	YES	YES	1	-	-	2,000	-
303		Snap and ring gauges, Plug gauge, Thread gauge	NO	YES	YES	2 each	-	-	1,500	-
304		Feeler gauge, radius gauge	NO	YES	YES	1	-	-	1,000	-
305		Angle plate	NO	YES	YES	1	-	-	1,000	-
306		Tool makers microscope	NO	YES	YES	1	-	-	40,000	-
307		Optical Profile projector	NO	YES	YES	1	-	-	75,000	-
308		Surface roughness tester	NO	YES	YES	1	-	-	60,000	-
309		Dial Bore Gauge with Accessories	NO	YES	YES	1	-	-	10,000	-
310		Autocollimator	NO	YES	YES	1	-	-	50,000	-
311		Thermocouple , Pyrometer apparatus	NO	YES	YES	1	-	-	10,000	-
312	REFRIGERATION AND AIR CONDITIONING LABORATORY Equipments	Refrigeration trainer to determine C.O.P.	NO	YES	YES	1	-	-	6,000	-
313		Air conditioner trainer / Test rig window type and split type air conditioner	NO	YES	YES	1	-	-	1,00,000	-
314		Water cooler	NO	YES	YES	1	-	-	6,000	-
315		Refrigeration compressor	NO	YES	YES	1	-	-	3,000	-
316		Safety controls (HP, LP Cut outs, oil pressure controls), solenoid valve, expansion valves, thermostats, charging board	NO	YES	YES	1 set	-	-	3,000	-
317		Gas charging equipment kit	NO	YES	YES	1	-	-	15,000	-
318		Vacuum pump	NO	YES	YES	1	-	-	3,000	-
319		Cut-Section model of thematically sealed compressor	NO	YES	YES	1	-	-	6,000	-

320		Hand tools for cutting , flaring, swaging and brazing of tubes	NO	YES	YES	1 set	-	-	5,000	-
321		Battery Charger 0-12 V, 0-6 Amp.	NO	YES	YES	1	-	-	2,000	-
322		Batteries 6 V & 12 V	NO	YES	YES	1 each	-	-	4,000	-
323		Hydrometer	NO	YES	YES	1	-	-	1,000	-
324		Cell Tester	NO	YES	YES	1	-	-	1,000	-
325		Working Model of Battery Ignition System, Magneto Ignition System Fitted on board	NO	YES	YES	1	-	-	2,000	-
326		Fuel Injection Pump	NO	YES	YES	1	-	-	15,000	-
327		Calibration Machine with Fuel Injection Pump & Coupling	NO	YES	YES	1	-	-	25,000	-
328		Electrical Testing Bench	NO	YES	YES	1	-	-	2,000	-
329		Condemned petrol engine of light petrol vehicle	NO	YES	YES	1	-	-	5,000	-
330		Condemned Diesel engine of medium and heavy vehicles	NO	YES	YES	1	-	-	5,000	-
331		Tyre inflator with twin hose assembly and small hose assembly	NO	YES	YES	1	-	-	2,500	-
332	AUTOMOBILE ENGINEERING LAB Equipments	Spark plug cleaning machine and Testing machine	NO	YES	YES	1	-	-	5,000	-
333		Condemned chassis frame of any light motor vehicle	NO	YES	YES	1	-	-	5,000	-
334		Sectioned working model of a single cylinder two stroke petrol engine	NO	YES	YES	1	-	-	1,000	-
335		Sectioned working model of single cylinder two stroke diesel engine	NO	YES	YES	1	-	-	1,000	-
336		Sectioned working model of a single cylinder four stroke diesel engine	NO	YES	YES	1	-	-	1,000	-
337		Sectioned working model of a single cylinder four stroke petrol engine fitted with ignition system	NO	YES	YES	1	-	-	4,000	-
		Hand Operated				1			6,000	
338		Work bench	NO	YES	YES	2	-	-	2,500	-
339		Mechanical Jack	NO	YES	YES	2	-	-	3,000	-
340		Tool Kit (Spanner, socket set, screw driver, plier, file, wrench, drill, tap set, hammer etc.)	NO	YES	YES	4 set	-	-	2,000	-

341		Study and sketch of models of rear axle and differential	NO	YES	YES	1	-	-	10,000	-
342	ENVIRONMENTAL ENGINEERING LAB Equipments (Common to all branches)	pH Meter	NO	YES	YES	01	-	-	500	-
343		Turbidity Meter	NO	YES	YES	01	-	-	5,000	-
344		Oven with Temperature Controller and Forced Air Circulation Type	NO	YES	YES	01	-	-	20,000	-
345		B.O.D. Incubator	NO	YES	YES	01	-	-	25,000	-
346		Water Analysis Kit	NO	YES	YES	01	-	-	5,000	-
347		High Volume Sampler	NO	YES	YES	01	-	-	40,000	-
348		Electrical Balance for weighing upto 1/10 of milligram (capacity)	NO	YES	YES	01	-	-	1,000	-
349		Clamp meter	NO	YES	YES	02	-	-	5,000	-
350	ENERGY CONSERVATION LAB Equipments (Common to all branches)	Multimeter	NO	YES	YES	02	-	-	2,000	-
351		Power Analyser	NO	YES	YES	01	-	-	20,000	-
352		Different types of lamps (LS) - 60 W lamp, 230 V , 100 V - 200 W lamp - 500 W lamp - 100 W lamp, 110 V, 150 V	NO	YES	YES	10	-	-	500	-
353		Lux meter	NO	YES	YES	02	-	-	5,000	-
354		Centrifugal pump, 1 kW	NO	YES	YES	1	-	-	15,000	-
355		Standard window A.C.	NO	YES	YES	01	-	-	20,000	-
356		Anemometer	NO	YES	YES	02	-	-	5,000	-
357		Thermometer	NO	YES	YES	03	-	-	2,000	-
358		Flow meter	NO	YES	YES	02	-	-	10,000	-
359		Pumping set with at least two pumps of different	NO	YES	YES	1 set	-	-	10,000	-
360		Pressure gauge fitted on discharge lines	NO	YES	YES	1 set	-	-	2,000	-
361		Variable Frequency Drive	NO	YES	YES	02	-	-	50,000	-
362		A small compressor with a small network of pipe line fitted with suitable pipeline, pressure gauge, safety valve and loading / unloading pressure switch.	NO	YES	YES	1	-	-	3,000	-
363		Stop watch	NO	YES	YES	2	-	-	1,000	-

364		Small blower (1.5 kW motor) with inlet and outlet ductsof approximately one meter length on both sides	NO	YES	YES	1	-	-	10,000	-	
365		Black Box (for checking lamp efficacy including stand and luxmeter)	NO	YES	YES	1	-	-	25,000	-	
366	BASICS OF IT LABORATORY/ COMPUTER LABORATORY Equipments (Common to all branches)	Computer System with latest configuration	NO	YES	YES	30	-	-	8,00,000	-	
367		Printer (MFP)	NO	YES	YES	1	-	-	25,000	-	
368		Printer (Laser)	NO	YES	YES	1	-	-	35,000	-	
369		Plotter	NO	YES	YES	1	-	-	75,000	-	
370		Digitiser	NO	YES	YES	1	-	-	50,000	-	
371		Antivirus Software	NO	YES	YES	LS	-	-	10,000	-	
372		Internet Facility on Computers	NO	YES	YES	LS	-	-	2,00,000	-	
373		LCD Projector	NO	YES	YES	1	-	-	35,000	-	
374		UPS	NO	YES	YES	60	-	-	1,20,000	-	
375		Software (latest windows, latest MS Office)	NO	YES	YES	1	-	-	1,00,000	-	
376		Scanner	NO	YES	YES	1	-	-	10,000	-	
377		Auto CAD	NO	YES	YES	L.S.	-	-	-	-	
378		Auto Civil	NO	YES	YES	L.S.	-	-	-	-	
379		STAAD Pro	NO	YES	YES	L.S.	-	-	-	-	
380		Primavera/MS Project	NO	YES	YES	L.S.	-	-	-	-	
381		Revit	NO	YES	YES	L.S.	-	-	-	-	
382		BIM	NO	YES	YES	L.S.	-	-	-	-	
383		Miscellaneous	NO	YES	YES	LS	-	-	5,000	-	
384			Audio Oscillator (20HZ-50KHZ)	NO	YES	YES	26	-	-	231400	-
385			Multimeter, 20 K. Ohm per volt Sensitivity, + 1% accuracy d.c.voltage 1000 v. max.	NO	YES	YES	10	-	-	59600	-

386	Digital Elex. multimeter. 3.5/4.5/5.5 Digit Led, AC & DC Voltage Current, Frequency, Resistance, Capacitors, DC Voltage Accuracy +0.005 AC Voltage + 0.1	NO	YES	YES	24	-	-	357600	-
387	Regulated Power Supply 0-30 V, 0.5/1 Amps.	NO	YES	YES	20	-	-	149800	-
388	Multi output Power Supply 0-30V, 1 Amp. 0-+-12 V, 1 Amp., 5 V, 2 Amp.	NO	YES	YES	6	-	-	64800	-
389	Power Supply 0-300 Volt, 1 Amp.	NO	YES	YES	4	-	-	29200	-
390	Dual Trace C.R.O. (0-30 MHz) 4, Operating Mode Channel I, Channel II, Channel I & II, Accuracy +3, Hold off-variable control for stable triggering slope +ve or -ve, sensitivity Int, 0.5 div, Ext 0.8v, Trace Rotation- Adjustable on Front Panel, Interface-USB	NO	YES	YES	16	-	-	496000	-
391	R.F.Signal Generator (AM/FM) 500 KHZ to 1.3 GHZ Standard Make	NO	YES	YES	4	-	-	59600	-
392	Function Generator upto 10MHZ, Amplitude 0-20V PP LED Display, Frequency Variation Fine Control Output Protected against short circuit, Input 230V AC +10 50HZ	NO	YES	YES	6	-	-	179400	-
393	A.C. Millivolt Meter/Micro Meter (Elex.)	NO	YES	YES	8	-	-	92800	-

Electronics

394	ELECTRONICS Engineering lab Equipments	Out Put Audio Power Meter 4 Ohm.- 20 K & 1 MW - 10 W	NO	YES	YES	2	-	-	9200	-
395		Digital MultiMeter/Micro Meter Digital Millivoltmeter(Suitable range)	NO	YES	YES	8	-	-	15680	-
396		D.C. Voltmeter /D.C. Milliammeter/D.C. Micrometer (suitable range)	NO	YES	YES	30	-	-	18000	-
397		Decade Resistance Box (Different ranges) Min 4/5/6 Dials Max Working Voltag 500V	NO	YES	YES	6	-	-	11100	-
398		Decade Capacitor Box (Different range) Min 4/5/6 Dial Cont	NO	YES	YES	8	-	-	71200	-
399		Decade Inductance Box Min 4/5 Dials	NO	YES	YES	8	-	-	91600	-
400		Different Transducers : pressure type, thermo couple, Demonstr (8 set of LVFT, Opto pick electromagnetic experimen pick up; Thermal relay, ultra-Kit/exp. tal kit/ sonic pick up and potentiometer kit di board) etc. including strain gauge, different Piezoelectric Transduser, Diff. types of types of Photo sources & Detec- transdu tor,Optical Fibre sensors 8set	NO	YES	YES	8	-	-	64000	-
401		Experimental Kit / Teaching Modules /Training boards / Learning kits. of relevant subject.	NO	YES	YES		-	-	100000	-

402	Component Storage rack	NO	YES	YES	16	-	-		-
403	Consumable Items	NO	YES	YES		-	-	30000	-
404	Miscellaneous	NO	YES	YES		-	-	50000	-
405	Power Operated Drilling Machine	NO	YES	YES	2	-	-	24000	-
406	Servo Voltage Stabilizer 5 KVA	NO	YES	YES	1	-	-	75000	-
407	Inverter 1 KVA with Battery	NO	YES	YES	1	-	-	15000	-
408	One Desk Top Latest Version	NO	YES	YES	2	-	-	80000	-
409	Electronics Software Electronics Lab Virtual Lab/ Circuit Maker etc. of Latest Version	NO	YES	YES	1	-	-	300000	-
410	Audio signal generator 20 Hz -50 KHz, 15 V. p.p, 60 db step attenuator	NO	YES	YES	12	-	-	54000	-
411	High quality stereo amplifier, 60 W per channel less than 1% distortion with bass treble & balance controls or Higher range	NO	YES	YES	4	-	-	14000	-
412	Digital A.C. voltmeter True RMS type with lowest full scale range 200 MV & accuracy 1%	NO	YES	YES	12	-	-	42000	-
413	Meter Distortion Factor:Minimum full scale 1% max. output meas-urable 50 W	NO	YES	YES	4	-	-	40000	-
414	High Quality 20 W speaker set (woofer squeeaker & tweeter) in cabinet	NO	YES	YES	8	-	-	8000	-
415	Speaker set (one set consists of one woofer one squeeaker & one tweeter)	NO	YES	YES	4	-	-	4000	-
416	Commercial Quality DVD Player	NO	YES	YES	2	-	-	7000	-
417	Analog Multimeter with 20 K Ohm /Volt 1% accuracy in DC voltage measurable 2500 V DC, Max. Resistance 20 M Ohm, AC current range also available	NO	YES	YES	4	-	-	14000	-
418	Hand held Digital Multimeter 3 & 1/2/4.5 digit 0.3% accuracy 1000 V DC & 20 M. Ohm ranges Protected against transients	NO	YES	YES	4	-	-	14000	-

419	RADIO & AUDIO VIDEO ENGINEERING LAB Equipments	Table Type Digital Multimeters 3 & 1/2/4.5 digit 0.3% accuracy 1000 V DC & 20 M Ohm ranges Protected against transient battery cum mains operation	NO	YES	YES	4	-	-	24000	-
420		Speaker Column (8" speakers)	NO	YES	YES	4	-	-	4000	-
421		Dual Trace Oscilloscope 100MHZ, 4kpts of memory, 2 channels with additional external trigger input, large 15 cm colour display, Advanced Triggering including edge pw and line selectable video USB interface for PC Connectivity.	NO	YES	YES	4	-	-	140000	-
422		Dual Trace Oscilloscope 25 MHz 60 MHz, 5 MV sensitivity	NO	YES	YES	2	-	-	80000	-
423		Full HD, 3D TV-Size 55 inch (140 cm.) LED/LCD with remote control, Wi-Fi connectivity, USB 2.0 Attachment HDMI Supported atleast two ports 3D Googles-02 No.	NO	YES	YES	1	-	-	200000	-
424		Full HD LED/LCD 32 inch(81 cm.)16:9, USB 2.0 ready HDMI Ready, Two Ports, Remote Control, Wi-Fi Connectivity	NO	YES	YES	4	-	-	200000	-
425		Professional Quality Pattern Generator with colour & B & W pattern with sensitivity control and 6 channel VHF/UHF electronics tuner	NO	YES	YES	2	-	-	80000	-
426		Servicing Quality Pattern Generator with VHF output and colour/B & W patterns	NO	YES	YES	2	-	-	40000	-
427		Standard RF signal generator (AM/FM) Frequency range upto 110 MHz and output at least 10 MV with external modulation facility % modulation and deviation variable.	NO	YES	YES	4	-	-	72000	-
428		Regulated power supply 0-30 v, 0-1 Amp. 0.1% regulation short circuit and overload protected	NO	YES	YES	6	-	-	21000	-

429	R.F Signal generator (AM),30 MHz, 10 MHz, External Mod.variable modulation	NO	YES	YES	10	-	-	30000	-
430	Transistor Radio Receiver band portable, battery cum mains	NO	YES	YES	4	-	-	3200	-
431	Transistor Radio Table Model battery cum mains	NO	YES	YES	4	-	-	6000	-
432	Antenna simulator	NO	YES	YES	4	-	-	4000	-
433	TV Antenna, 3 element and yagi(1 each) Set	NO	YES	YES	2	-	-	1600	-
434	Radio Antenna Directional and Omni directional	NO	YES	YES	2	-	-	1000	-
435	Dish Antenna Connection DTH other along with associated connectors and cables	NO	YES	YES	2	-	-	9000	-
436	RF Signal Distribution equipment along with associated connectors and cables	NO	YES	YES	2	-	-	50000	-
437	Sweep Generator	NO	YES	YES	2	-	-	50000	-
438	Wobbuloscope	NO	YES	YES	2	-	-	100000	-
439	Digital Handicam	NO	YES	YES	2	-	-	40000	-
440	DVD Writer and Player	NO	YES	YES	2	-	-	20000	-
441	Diff. Types of Antenna-MF, HF, VHF, UHF & Microwave	NO	YES	YES	LS	-	-	25000	-
442	Experimental Kits demonstrating ASK, PSK, FSK	NO	YES	YES	LS	-	-	100000	-
443	Diff. Types of Microphones	NO	YES	YES	LS	-	-	20000	-
444	Commerical P A System 16 W-220V, Output AC & 24V DC operated, 5 Mic & 2 Auxilary input,Speaker output 4 Ohm 8 Ohm & 17 V & 100 V	NO	YES	YES	2	-	-	40000	-
445	Home Theater Support Disc type CD,CDR/CDRW DVDR/DVDRW, VCD Supported with USBPort Support & 5.1 Channel Format Support-DIVX/JPEG/MP3	NO	YES	YES	4	-	-	100000	-
446	CRO dual trace with delayed time base, 25 MHz or higher band width.	NO	YES	YES	4	-	-	100000	-

447	Digital Electronics and Microprocessor Lab Equipments	CRO dual trace 100MHz. Digital storage oscilloscope 4 Kpts of Memory, 2 Channels with additional external trigger input, Large 15 Cm. colour display, 20 automatic measurement & 4 math function advance triggering selectable video, mask test,USB inte face for PC Connectivity	NO	YES	YES	2	-	-	60000	-
448		CRO dual trace 30 MHz.Accuracy +3%, Variable Cont.For Stable triggering, Slope Positive or Negative Trace Rotation adjustable on front panel, CRT 140 mm Z Modulation	NO	YES	YES	6	-	-	90000	-
449		Multimeter, 20 K Ohm/volt sensitivity, 1% accuracy in D.C. voltage range, Max. D.C. voltage range 2500 V, A.C Current.	NO	YES	YES	6	-	-	35760	-
450		Multimeter,Digital hand held 3.5/4.5digit, 0.3% accuracy 1000 V D.C. and 20 m ohm resistance range protected against transients.	NO	YES	YES	8	-	-	48000	-
451		Logic Probe	NO	YES	YES	40	-	-	20000	-
452		Logic board/trainer including +5 Volt, 1Amp + 15 V, 0.3 Amp power supply and bread board and flexible leads.	NO	YES	YES	20	-	-	140600	-
453		Microprocessor trainer kits with 8085 system (EC 85 or similar).	NO	YES	YES	16	-	-	129000	-
454		Component rack 144 tray (small) & 24 large tray.	NO	YES	YES	6	-	-	48000	-
455		Consumable material such as components ICs, resistors transistors etc.	NO	YES	YES	LS	-	-	80000	-
456		Miscellaneous	NO	YES	YES	LS	-	-	100000	-
457		Micro Controller Kits/PLC	NO	YES	YES	LS	-	-	50000	-
458		Trainer Kits of Universal Shift Register (SISO,SIPO,PIPO,PISO)Decade Counter, Universal Counter(Up, Down & Updown) & Different Flip Flops	NO	YES	YES	LS	-	-	50000	-
459		Dual power supply (0-30v/.5amp)	NO	YES	YES	4	-	-	21900	-

460	Minimum 12 line electronic telephone exchange with telephone instrument sets and power supply (Cardless)	NO	YES	YES	2	-	-	100000	-
461	Mobile Phone-GSM 3G/HSDPA Supported with Wi-Fi, Bluetooth Connectivity, Android 2.3 Operating System Supported with Colour Display TFT Screen with SD Memory Card, Battery 1300 mAH or Higher	NO	YES	YES	8	-	-	120000	-
462	Tablet PC-Min 7 inch Capacitive Touch Screen, Android 4.0 or Upper Operating System, 2D/3D Graphic Processor, 4GB internal Memory Expandable upto 40GB with Front Camera, Battery 2800 mAH or Higher	NO	YES	YES	8	-	-	8000	-
463	Experimental Kits for demonstrating ASK, FSK, PSK circuits	NO	YES	YES	2	-	-	160000	-
464	Experimental Kits for Optical Fibre Communication	NO	YES	YES	LS	-	-	100000	-
465	Mobiles Phones Trainer Kit with Fault Finding Facilities, Various Test Point Facilities	NO	YES	YES	2	-	-	50000	-
466	Computers System Dual Core i5/i7 with internet connection and UPS	NO	YES	YES	2	-	-	100000	-
467	Microprocessor Training Kit of 8086	NO	YES	YES	LS	-	-	100000	-
468	Fax Machine (Multi Function)	NO	YES	YES	2	-	-	20000	-
469	Universal Data Book	NO	YES	YES	1	-	-	0	-
470	Software	NO	YES	YES	LS	-	-	200000	-
471	D C Voltmeter (1K/2K/10K/20K Ohm per Volt)	NO	YES	YES	8	-	-	4800	-
472	Gen.purpose multimeter	NO	YES	YES	8	-	-	20000	-
473	Digital Multimeter	NO	YES	YES	10	-	-	35000	-
474	Regulated Power Supply Variable 0-30 V; 1 A	NO	YES	YES	8	-	-	59920	-
475	Transistor power supply (+,-,Comm) 0-30 V / 1 A variable	NO	YES	YES	8	-	-	28000	-
476	Unregulated power supply 0-30 V; 1 A	NO	YES	YES	2	-	-	5000	-
477	A.F. signal generator. Output Digital AES 75W on a BN connector, AES/EBU on terminal block connector, S/PDIF on a RCA connector and To linkbalanced Stereo 600 W on a Terminal block connector with power adaptor	NO	YES	YES	10	-	-	80640	-

478	RF signal generator Frequency Range 100KHz to 150Mhz in seven steps, accuracy on scale+5%, RF output min 100mv (upto 30 Mhz), RMS modulationAM, Audio Frequency Range 150 Hz-1.5 KHz, Audio output 2VRMS, Ext. Audio Input 50 Hz to20 KHz at less than IV RMS Mains 230 V	NO	YES	YES	10	-	-	150000	-
479	Function Generator Operating modes sine, square triangle and DC output Frequency Range 0.1-1Mhz in seven decade steps, Variable control between steps, Frequency Accuracy +0.5% Display LCD controlled by micro controller, Main supply 200V +10%, 50 Hz output voltage max 10V into 50W, attenuation two step variable	NO	YES	YES	4	-	-	100000	-
480	Std. Signal Generator	NO	YES	YES	4	-	-	60000	-
481	AC/DC Voltmeter (M.I.type)	NO	YES	YES	4	-	-	2400	-
482	CRO 200 Mhz Digital Storage oscilloscope-upto 1GSa/s Simple Rate Memory 4 Kpts or Higher, 2 Chennel with additional ext.trigger input, Colour Display 15 cm(5.7 inc.) 20 automatic measurement & 4 math function including FFTs, Advance Triggering, Delayed Sweep Mode Mask Test, USB Interface For PC Connectivity	NO	YES	YES	8	-	-	280000	-
483	Dual Trace CRO 100 MHz Digital Storage oscilloscope-upto 1GSa/s Simple Rate Memory 4 Kpts or Higher, 2 Channel with additional ext. trigger input, Colour Display 15 cm(5.7 inc.) 20 automatic measurement & 4 math function including FFTs, Advance Triggering, Delayed Sweep Mode Mask Test, USB Interface For PC Connectivity	NO	YES	YES	8	-	-	280000	-
484	Q Meter-8 Digit LED 0.8 inch Height, Range Indicator .999 count & Status indicators Via 3 LEDs, Measuring Frequency 250 ms	NO	YES	YES	2	-	-	16000	-
485	RLC/Universal Bridge AC/DC Bridge	NO	YES	YES	4	-	-	32000	-
486	Universal Digital Freq. Counter	NO	YES	YES	2	-	-	40000	-
487	Distortion Factor Meter	NO	YES	YES	2	-	-	24000	-
488	Decade Resistance Box 4/5/6 Dials	NO	YES	YES	4	-	-	7400	-
489	Decade Cap. Box 4/5/6 Dials	NO	YES	YES	2	-	-	17800	-
490	Std. Inductance (Diff. Value)	NO	YES	YES	4	-	-	2400	-
491	Charts, Models, displays for safety/rules etc.	NO	YES	YES	LS	-	-	10000	-

**Electronics
Workshop and
Project Lab
Equipments**

492		Digital Multimeter 4.5 Digit Display, AC/DC Voltage, AC/DC Current 20A Resistance, Capacitors Frequency Diode Test, Transistor Test & Continuity Test	NO	YES	YES	6	-	-	89400	-
493		Single Phase Variac 5 Amp, 15 Amp (Oil/Air cool) av.	NO	YES	YES	10	-	-	50000	-
494		Calibrated Dual Trace CRO 100 Mhz Digital Storage oscilloscope-upto 1GSa/s Simple Rate Memory 4 Kpts or Higher, 2 Chennel with additional ext.trigger input, Colour Display 15 cm(5.7 inc.) 20 automatic measurement & 4 math function including FFTs, Advance Triggering,Delayed Sweep Mode Mask Test, USB Interface For PC Connectivity	NO	YES	YES	4	-	-	120000	-
495		Tools Kit	NO	YES	YES	30	-	-	43500	-
496		Misc. Active Components	NO	YES	YES	LS	-	-	15000	-
497		Misc. Accessories as per req.	NO	YES	YES	LS	-	-	10000	-
498		Misc. Passive components.	NO	YES	YES	LS	-	-	15000	-
499		Working Models of analog and digital equipment	NO	YES	YES	LS	-	-	20000	-
500		Dark room with Camera,Enlarger, Developing setup, Fixing & Printing setup etc.	NO	YES	YES	LS	-	-	80000	-
501		Manual Etching Setup 10000	NO	YES	YES	LS	-	-	10000	-
502		Mechanised Etching Setup 10000	NO	YES	YES	LS	-	-	10000	-
503		Silk-Screen Printing Setup 10000	NO	YES	YES	LS	-	-	10000	-
504		Drill Machine Power Operated	NO	YES	YES	4	-	-		-
505		PCB Drill Machine	NO	YES	YES	4	-	-		-
506		Misc. Items	NO	YES	YES	LS	-	-	80000	-
507		Consumable (Not specified above)	NO	YES	YES	LS	-	-	258000	-
508	Learning Resource Materials Lab Equipments	LCD Projector with Screen	NO	YES	YES	1	-	-	20000	-
509		Handicam	NO	YES	YES	1	-	-	30000	-
510		Cutting, Binding & Stitching equipment.	NO	YES	YES	1	-	-	30000	-
511		Desk Top Computer with Internet Core i5/i7 760,Processor,GenuineWindow7,Professional 18 inch HD, Flat Panel Monitor Optical Mouse, Key Board & all related media or latesversion	NO	YES	YES	1	-	-	60000	-
512		Home Theater Support Disc type CD. CDR/CDRW DVDR/DVDRW, VCD Supported with USB Port Support-DIVX/JPEG/MP3	NO	YES	YES	1	-	-	25000	-

513		Commerical P A System 1 – 20000 16 W-220W output, AC & 24V DC Operated, 5 Mic. & 2 Auxilaryinput, Speaker output 4 Ohm, 8 Ohm, 17 V & 100 V	NO	YES	YES	1	-	-	20000	-
514		Interactive Board 1 -- 50000	NO	YES	YES	1	-	-	50000	-
515		DC regulated low voltage variable Power Supply 0-12,000 V	NO	YES	YES	6	-	-	12000	-
516		RF Signal Generator	NO	YES	YES	3	-	-	15000	-
517		Electronic Multimeter with different voltage ranges	NO	YES	YES	6	-	-	22000	-
518		Electronic Digital Multimeter	NO	YES	YES	6	-	-	20000	-
519		Standard Signal Generator	NO	YES	YES	2	-	-	50000	-
520		Facsimile(Fax)-transmitter receiver	NO	YES	YES	1	-	-	20000	-
521		Radio Receiver Trainer Kits/Deconstruction Models	NO	YES	YES	2	-	-	10000	-
522		AM/FM signal generator	NO	YES	YES	2	-	-	20000	-
523		Super heterodyne Receiver radio Demonstration model	NO	YES	YES	1	-	-	4000	-
524		Communication receiver	NO	YES	YES	1	-	-	5000	-
525		Optical fibre bench	NO	YES	YES	2	-	-	25000	-
526		CRO 25 MHz	NO	YES	YES	3	-	-	80000	-
527		Digital frequency meter	NO	YES	YES	2	-	-	10000	-
528		50 MHz CRO/DSO	NO	YES	YES	3	-	-	50000	-
529	Communication Engineering Lab Equipments	Modems, opto coupler different types of microphones and other accessories	NO	YES	YES	LS	-	-	10000	-
530		Advanced Communication Trainer	NO	YES	YES	2	-	-	100000	-
531		Cellular Mobile KiT	NO	YES	YES	2	-	-	10000	-
532		Pulse Modulation and Demodulation	NO	YES	YES	6	-	-	20000	-
533		Pulse Amplitude Modulation and Demodulation	NO	YES	YES	6	-	-	18000	-
534		Pulse Width Modulation and Demodulation	NO	YES	YES	6	-	-	18000	-
535		Data Formatting and Carrier Modulation Transistor Trainer Model	NO	YES	YES	6	-	-	25000	-
536		Carrier Modulation of Data Reformatting Receiver Trainer Kit	NO	YES	YES	6	-	-	25000	-
537		AM Transmitter Trainer Model	NO	YES	YES	6	-	-	20000	-
538		AM Receiver Trainer Model	NO	YES	YES	6	-	-	20000	-
539		FM Communication Trainer Model	NO	YES	YES	6	-	-	25000	-
540		Sampling Reconstruction Trainer	NO	YES	YES	6	-	-	11000	-
541		Pulse Code Modulation Transmitter	NO	YES	YES	6	-	-	25000	-
542		Pulse Code Modulation Receiver	NO	YES	YES	6	-	-	25000	-
543		Delta Adaptive Delta Sigma Modulation and Demodulation	NO	YES	YES	6	-	-	30000	-
544		Antenna Trainer to plot the radiation pattern of different types of Antennas	NO	YES	YES	2	-	-	20000	-
545		Kit - IF Amplifier Transistor based	NO	YES	YES	6	-	-	1500	-
546		Kit – Amplitude Modulation Demodulation (DSB)	NO	YES	YES	6	-	-	2500	-
547		Kit – Double Balanced Modulator/Demodulator	NO	YES	YES	6	-	-	45000	-
548		Kit – Frequency Modulator Demodulator (Transistorized)	NO	YES	YES	6	-	-	2200	-
549	Kit – Computer and locking range of PLL	NO	YES	YES	6	-	-	1600	-	

550	Communication System Lab Equipments	Kit – Frequency Demodulation (IC Based)	NO	YES	YES	6	-	-	1600	-	
551		Kit –Sample and Hold (S/H) function for Digital Study	NO	YES	YES	6	-	-	2600	-	
552		IF Amplifier (IC Based)	NO	YES	YES	6	-	-	1600	-	
553		Frequency Synthesizer	NO	YES	YES	6	-	-	1600	-	
554		Kit to measure characteristic impedance of symmetrical	NO	YES	YES	5	-	-	30000	-	
555		Kit to measure Image Impedance of Asymmetrical T &	NO	YES	YES	5	-	-	30000	-	
556		Kit to Plot the attenuation characteristic	NO	YES	YES	5	-	-	30000	-	
557		Kit for LPF, HPF, BPF	NO	YES	YES	5	-	-	30000	-	
558		Kit for measurement of SWR of Line	NO	YES	YES	2	-	-	10000	-	
559		Kit for Plotting attenuation characteristics of crystal filter	NO	YES	YES	5	-	-	10000	-	
560	Electronic design and Simulation Technique Lab Equipments	Computer	NO	YES	YES	20	-	-	1600000	-	
561		Softwares:- DIP Trace /ORCAD/LAB VIEW/WIN SPICE etc.	NO	YES	YES	-	-	-	2000000	-	
562	Electronics Workshop Lab Equipments	Hand Tools Set	NO	YES	YES	5	-	-	5000	-	
563		Soldering Set	NO	YES	YES	5	-	-	5000	-	
564		Hand Drill	NO	YES	YES	1	-	-	3000	-	
565		PCB Etching Machine	NO	YES	YES	2	-	-	2500	-	
566		Silk Screen Printing 2 set	NO	YES	YES	2	-	-	50000	-	
567		Drafting Equipment 1 set	NO	YES	YES	1	-	-	15000	-	
568		PCB Drilling Machine	NO	YES	YES	1	-	-	10000	-	
569		Sheet metal folding and binding machine	NO	YES	YES	1	-	-	20000	-	
570		Sheet metal cutting machine	NO	YES	YES	1	-	-	5000	-	
571		Centre Lathe	NO	YES	YES	1	-	-	15000	-	
572		Grinder	NO	YES	YES	1	-	-	6000	-	
573		Circular saw	NO	YES	YES	1	-	-	6000	-	
574		DC regulated low voltage variable power supply	NO	YES	YES	1	-	-	10000	-	
575		Audio Oscillator	NO	YES	YES	2	-	-	6000	-	
576		RF Signal generator	NO	YES	YES	2	-	-	8000	-	
577		Digital LCR-Q meter	NO	YES	YES	2	-	-	10000	-	
578		Digital multi-meter	NO	YES	YES	4	-	-	12000	-	
579		Dual trace/DSo	NO	YES	YES	4	-	-	25000	-	
580		AC Milivoltmeter	NO	YES	YES	2	-	-	3500	-	
581		IC Bread boards	NO	YES	YES	6	-	-	3000	-	
582		Soldering stations temperature controlled	NO	YES	YES	10	-	-	10500	-	
583		Solder suckers with accessories	NO	YES	YES	10	-	-	500	-	
584		Measurement	Light Measurement (Photocells) Kit	NO	YES	YES	4 Nos.	-	-	15,000	-
585			LVDT Kit	NO	YES	YES	4 Nos.	-	-	8,000	-
586			Pressure Measurement Kit	NO	YES	YES	4 Nos.	-	-	9,500	-
587			Strain Measurement Kit	NO	YES	YES	4 Nos.	-	-	14,000	-
588	Water Level Measurement Kit		NO	YES	YES	4Nos.	-	-	11,500	-	
589	RPM Measurement Kit		NO	YES	YES	4Nos.	-	-	5,000	-	
590		Temperature Measurement Kit	NO	YES	YES	4Nos.	-	-	5,000	-	

591	Lab Equipments	Maxwell's Bridge Kit	NO	YES	YES	4Nos.	-	-	7,500	-
592		Wein's Bridge Kit	NO	YES	YES	4 Nos.	-	-	4,500	-
593		Anderson Bridge Kit	NO	YES	YES	4 Nos.	-	-	5,000	-
594		Flux Meter (Digital) Kit	NO	YES	YES	4 Nos.	-	-	5,000	-
595		Q. Meter (Digital) Kit	NO	YES	YES	4 Nos.	-	-	5,000	-
596		pH meter kit	NO	YES	YES	4 Nos.	-	-	-	-
597		Wheat stone bridge kit	NO	YES	YES	4 Nos	-	-	-	-
598		Energy Meters (3- phase and 1- phase)	NO	YES	YES	8 each	-	-	40,000	-
599	3-Phase Resistive load	NO	YES	YES	4 Nos.	-	-	16,00	-	
600	LCR/Q Bridge	NO	YES	YES	1	-	-	5,000	-	
601	Tong tester	NO	YES	YES	4	-	-	12,000	-	
602	Transformer (single phase)	NO	YES	YES	2	-	-	16,000	-	
603	Watt meter, Volt meter, Ammeter,	NO	YES	YES	2 each	-	-	10,000	-	
604	DC Shunt Motor,2 hp with loading arrangement	NO	YES	YES	1	-	-	20,000	-	
605	Induction Motor (Single phase)	NO	YES	YES	2	-	-	10,000	-	
606	Induction Motor (Three phase)	NO	YES	YES	2	-	-	10,000	-	
607	Slipring Induction Motor 3 HP with loading facility	NO	YES	YES	1	-	-	25,000	-	
608	Alternator and Load for Alternators	NO	YES	YES	1	-	-	25,000	-	
609	DC generator with prime-mover motor	NO	YES	YES	2	-	-	25,000	-	
610	DC Regulated Power Supply	NO	YES	YES	2	-	-	6,000	-	
611	Starters (DOL and Star Delta)	NO	YES	YES	2 each	-	-	8,000	-	
612	Rheostats	NO	YES	YES	4	-	-	12,000	-	
613	Tacho meters (digital)	NO	YES	YES	2	-	-	15,000	-	
614	Maggar (Insulation Tester)	NO	YES	YES	2	-	-	5,000	-	
615	Earth Tester	NO	YES	YES	2	-	-	10,000	-	
616	Digital Multi-meter	NO	YES	YES	10	-	-	32,000	-	
617	Rectifier, Inverter Set	NO	YES	YES	1	-	-	10,000	-	
618	Power Electronics Lab Equipments	Chopper Kit	NO	YES	YES	6 Nos.	-	-	5,000	-
619		Series Inverter	NO	YES	YES	2 Nos.	-	-	8,000	-
620		Parallel Inverter	NO	YES	YES	2 Nos.	-	-	8,000	-
621		Speed Control of dc motor (Thyristorized)	NO	YES	YES	6 Nos.	-	-	5,000	-
622		Single Phase Cyclo Converter with Thyristors	NO	YES	YES	2 Nos.	-	-	20,000	-
623		SCR Characteristics	NO	YES	YES	6 Nos.	-	-	1,500	-
624		Gate Triggering Characteristics of SCR	NO	YES	YES	6 Nos.	-	-	10,000	-
625		AC Phase Control Trainer Kit	NO	YES	YES	6 Nos.	-	-	6,000	-
626		Kit to Study 3-phase Control Bridge Converter	NO	YES	YES	6 Nos.	-	-	17,500	-
627		Oscillator	NO	YES	YES	6 Nos.	-	-	1,500	-
628		Kit for Plotting VI characteristics of SCR	NO	YES	YES	5	-	-	-	-
629		Kit for Plotting VI characteristics of TRIAL	NO	YES	YES	5	-	-	-	-
630		Kit for Plotting VI characteristics of DIAL	NO	YES	YES	5	-	-	-	-
631		Kit for Plotting VI characteristics of UJT	NO	YES	YES	5	-	-	-	-
632		Kit of UJT Based Relaxation Oscillator	NO	YES	YES	5	-	-	-	-

633		Kit for Single Phase half wave controlled Rectifier	NO	YES	YES	5	-	-	-	-
634		Kit for single phase full wave controlled Rectifier	NO	YES	YES	5	-	-	-	-
635		Kit for Triac Based AC Phase control	NO	YES	YES	5	-	-	-	-
636		Demonstration Kit of Off-line and On-line UPS	NO	YES	YES	2 each	-	-	-	-
637	Medical Electronics Lab Equipment	Medical test bench	NO	YES	YES	LS	-	-	1,00,000	-
638	Control Curcuit Lab Equipment	Equipment Required for Control Circuit Lab Instrumentation and Control Circuit Trainer Equipment Having hardware and software for checking Proportional, Integral and Derivative functions (configurable as P,I,D, PI, PD,PID) and ON/OFF control Having Square and triangular wave with variable frequency for testing PID. Having Variable DC for set point and error detector with inbuilt power supply and function generator, dead zone and disturbance generator	NO	YES	YES	2 Sets	-	-	60,000/-	-
639	REQUIREMENT OF ITEMS TO ESTABLISH NEW COMPUTER LABS	Computer Server(Quad-Core Intel Processor 32 GB RAM)	NO	YES	YES	1	-	-	5,00,000	-
640		Computer Desktop(i7 8 th Generation, 1TB Hard Disk,8GB RAM, Preloaded window with 5 years warranty)	NO	YES	YES	60	-	-	48,00,000	-
641		Switch with 24 port speed 10/100/1000(Manageable)	NO	YES	YES	3	-	-	1,50,000	-
642		Multimedia Laser Jet Printer	NO	YES	YES	8	-	-	2,40,000	-
643		Multifunctional Printer, A3 size	NO	YES	YES	1	-	-	40,000	-
644		Plotter	NO	YES	YES	1	-	-	80,000	-
645		Scanner	NO	YES	YES	1	-	-	65,000	-
646		Laptop	NO	YES	YES	2	-	-	1,50,000	-
647		Online UPS, 6 KVA	NO	YES	YES	2	-	-	2,00,000	-
648		Internet Connectivity(2 mbps)	NO	YES	YES	60	-	-	3,00,000	-
649		LCD/DLP Projector with Screen	NO	YES	YES	1	-	-	25,000	-
650		Air Conditioner 2 ton	NO	YES	YES	4	-	-	1,40,000	-
651	Anti Virus(Quick Heal Total Security)	NO	YES	YES	12(5	-	-	1,20,000	-	

652		MS Office latest	NO	YES	YES	1	-	-	20,000 per	-
653		Solid Works/AutoCAD/Unigraphics/Pro-C	NO	YES	YES	30 user	-	-	5,00,000	-
654		Compiler Turbo C,C++	NO	YES	YES	1	-	-	10,000	-
655		Web camera, Speakers and Mike	NO	YES	YES	1	-	-	20,000	-
656		Coral Draw latest version	NO	YES	YES	10 user	-	-	2,00,000	-
657		External Hard Disk(1 TB)	NO	YES	YES	2	-	-	10,000	-
658		Computer Chair and Fixed Table	NO	YES	YES	60 set	-	-	4,80,000	-
659		Adobe Presenter multi user life time licenced software	NO	YES	YES		-	-		-
660		Pspice software	NO	YES	YES		-	-		-
661		Circuit Maker software	NO	YES	YES		-	-		-
662		E-drawing software	NO	YES	YES		-	-		-
663	REQUIREMENT OF ITEMS TO ESTABLISH NEW SMART CLASSROOMS	Laptop (Latest Configuration)	NO	YES	YES	3	-	-	2,25,000	-
664		Computer Desktop(i7 8 th Generation, 1TB Hard Disk,8GB RAM, Preloaded window with 5 years warranty)	NO	YES	YES	3	-	-	2,40,000	-
665		Digital Board with colour pen	NO	YES	YES	3	-	-	1,80,000	-
666		UPS 5 KVA online	NO	YES	YES	3	-	-	3,60,000	-
667		Amplifier with Mic	NO	YES	YES	3	-	-	60,000	-
668		Collar Mic	NO	YES	YES	6	-	-	6,000	-
669		LCD/DLP Projector with Screen	NO	YES	YES	3	-	-	75,000	-
670		Air Conditioner 2 ton with voltage stabilizer	NO	YES	YES	3	-	-	1,50,000	-
671		Laptop (Latest Configuration)	NO	YES	YES	1	-	-	75,000	-
672		Conference Camera (Lifesize Icon 400)	NO	YES	YES	1	-	-	2,50,000	-
673	REQUIREMENT OF ITEMS TO ESTABLISH NEW VIRTUAL CLASSROOM	55-inch Full LED Screen	NO	YES	YES	1	-	-	1,25,000	-
674		UPS 5 KVA online	NO	YES	YES	1	-	-	1,20,000	-
675		Multifunctional Printer, A3 size	NO	YES	YES	1	-	-	40,000	-
676		2 MBPS dedicated lease line internet connection	NO	YES	YES	1	-	-	50,000 per	-
677		Laptop	NO	YES	YES	1	-	-	75,000	-
678		LCD/DLP Projector with Screen	NO	YES	YES	1	-	-	25,000	-
679		Air Conditioner 2 ton with voltage stabilizer	NO	YES	YES	2	-	-	1,00,000	-
680		E Lectern (at least i5 processor, with PA system and	NO	YES	YES	1	-	-	1,75,000	-
681		Room Preparation	NO	YES	YES	-	-	-	2,00,000	-

682	Language Lab Equipments	Server PC				-	-		-	
683		Computer Server	NO	YES	YES	1	-	-	135000	-
684		(Processor: IntelXeon E3 with minimum Processor								-
685		Speed: 3.3Ghz), RAM : DDR4, 8MB Cache, Total DIIM								-
686		Slots: 4 DIIM Slots, Max HDD Scalability : upto 4								-
687		drives (3.5 inch) 7.2 k RPM, Graphics Card 2 GB								-
688		Onboard Raid Ethernet : 1 Gbps, HDMI 01 Slot, VGA								-
689		01 Slot, USB 2.0 Minimum 4 Slots, USB 3.0 minimum								-
690		2 Slots								-
691		Headphones with Mic	NO	YES	YES	1	-	-	1000	-
692		Webcam : HD Webcam	NO	YES	YES	1	-	-	2000	-
693		OS: Windows server 2008 R2 64bit or above	NO	YES	YES	1	-	-	80000	-
694		monitor : 19.5 inch Or higher specification	NO	YES	YES	1	-	-	5000	-
695		Desktop Computer	NO	YES	YES	25	-	-	2000000	-
696		(Intel i7 processor, 8th generation)								-
697		Minimum processor speed 3.0 Ghz								-
698		RAM 8 Gb DDR4, Min. 6MB cache								-
699		HDD 1 TB, Networking Integrated Bluetooth 4.0								-
700		and wireless Lan 802.11b/g/n								-
701		CD/DVD disk drive, USB Keyboard and USB Optical								-
702		mouse, Monitor 18.5 inch or above, Ports HDMI 01								-
703		Slot, VGA 01 Slot, USB 2.0 minimum 4 slots, USB 3.0								-
704		minimum 2 slots, integrated intel HD Graphics,								-
705		Headphones with mic.								-
706		Webcam : HD Webcam, OS-Windows 10 professional								-
707		or higher specifications available								-
708	UPS 5KVA online at least 30 min backup	NO	YES	YES	1	-	-	100000	-	
709	Computer chair and table	NO	YES	YES	25	-	-	200000	-	
710	AC for LAB	NO	YES	YES	2	-	-	80000	-	
711	laser printer(Network Printer)	NO	YES	YES	1	-	-	10000	-	
712	LAN Setup in Lab(Misc)	NO	YES	YES	-	-	-	20000	-	
713	Language Lab software	NO	YES	YES	h 25	-	-	100000	-	

714	Mason Shop Equipments	Mason Trowel	NO	YES	YES	10	-	-	1,000	-	
715		Concrete Finishing Trowel	NO	YES	YES	10	-	-	1,000	-	
716		Gauging Trowel	NO	YES	YES	10	-	-	1,000	-	
717		Margin Trowel	NO	YES	YES	10	-	-	1,000	-	
718		Pointing Trowel	NO	YES	YES	10	-	-	1,000	-	
719		Round Trowel	NO	YES	YES	10	-	-	1,000	-	
720		Mason/Brick Hammer	NO	YES	YES	10	-	-	3,000	-	
721		Comb hammer	NO	YES	YES	10	-	-	3,000	-	
722		Blocking chisel	NO	YES	YES	10	-	-	1,000	-	
723		Plumb bob	NO	YES	YES	10	-	-	500	-	
724		Spirit level	NO	YES	YES	10	-	-	1,000	-	
725		Straight Edge	NO	YES	YES	10	-	-	1,000	-	
726		Jointer	NO	YES	YES	10	-	-	1,000	-	
727		Masonry Pan	NO	YES	YES	10	-	-	1,500	-	
728		Steel Measuring Tape	NO	YES	YES	10	-	-	500	-	
729		Miscellaneous (Bricks, Blocks, Stones, Sand, Cement)	NO	YES	YES	10	-	-	3,000	-	
730		Construction Materials Testing Lab Equipments	Compression testing machine (100 T. Capacity)	NO	YES	YES	1	-	-	1,50,000	-
731			Vibration machine	NO	YES	YES	1	-	-	10,000	-
732			Electrically heated oven (Thermostatically controlled)	NO	YES	YES	1	-	-	15,000	-
733			Blaine Air permeability Apparatus (for testing fineness of cement)	NO	YES	YES	2	-	-	25,000	-
734	Vicat's Apparatus		NO	YES	YES	4	-	-	20,000	-	
735	Le Chatelier's soundness apparatus (to determine quantity of free lime in cement)		NO	YES	YES	2	-	-	10,000	-	
736	Slump Cone (to determine the workability of concrete)		NO	YES	YES	2	-	-	5,000	-	
737	Compaction factor apparatus (to determine the workability of concrete)		NO	YES	YES	1	-	-	25,000	-	
738	Vee-Bee apparatus (to determine the workability of concrete)		NO	YES	YES	1	-	-	25,000	-	
739	Platform weighing machine		NO	YES	YES	1	-	-	20,000	-	
740	Concrete cube moulds		NO	YES	YES	12	-	-	12,000	-	
741	Concrete mixers		NO	YES	YES	1	-	-	1,00,000	-	
742	Sieve shaker		NO	YES	YES	1	-	-	50,000	-	
743	Set of sieves		NO	YES	YES	2 Set	-	-	10,000	-	
744	Beam mould		NO	YES	YES	2	-	-	5,000	-	
745	Impact testing machine		NO	YES	YES	2	-	-	50,000	-	
746	Needle vibrator		NO	YES	YES	1Each	-	-	5,000	-	
747	Flakiness index apparatus	NO	YES	YES	2	-	-	2,000	-		

748		Elongation index apparatus	NO	YES	YES	2	-	-	2,000	-
749		Bar bending and cutter apparatus	NO	YES	YES	2 Set	-	-	2,00,000	-
750		Bulk density apparatus	NO	YES	YES	2	-	-	40,000	-
751		Wire basket	NO	YES	YES	4	-	-	4,000	-
752		Riffle sampler	NO	YES	YES	2	-	-	18,000	-
753		Table vibrator	NO	YES	YES	2	-	-	1,30,000	-
754		Concrete test hammer	NO	YES	YES	1	-	-	1,95,000	-
755		Ultrasonic pulse velocity apparatus	NO	YES	YES	1	-	-	1,75,000	-
756	Roads and Soils Lab Equipments	Ring and Ball apparatus (with heating mantle)	NO	YES	YES	1	-	-	15,000	-
757		CBR apparatus with loading machine	NO	YES	YES	1	-	-	4,75,000	-
758		Flash point and fire point apparatus (Cleaveland type)	NO	YES	YES	1	-	-	10,000	-
759		Los angles Abrasion testing machine apparatus	NO	YES	YES	1	-	-	1,80,000	-
760		Water bath (Thermostatically controlled)	NO	YES	YES	1	-	-	36,000	-
761		Aggregate impact value testing apparatus with automatic blow counter	NO	YES	YES	2	-	-	24,000	-
762		Penetration value apparatus with timer	NO	YES	YES	1	-	-	24,000	-
763		Viscometer Capillary type	NO	YES	YES	1	-	-	1,00,000	-
764		Ductility machine	NO	YES	YES	1	-	-		-
765		Direct shear test apparatus	NO	YES	YES	1	-	-	1,50,000	-
766		Drying oven(Thermostatically controlled)	NO	YES	YES	1	-	-	1,00,000	-
767		Electronic balance	NO	YES	YES	1	-	-	50,000	-
768		Standard penetration test equipment	NO	YES	YES	1	-	-	16,000	-
769		Soil exploration equipment (Augers etc)	NO	YES	YES	1	-	-	65,000	-
770		Sand replacement method apparatus	NO	YES	YES	2	-	-	10,000	-
771		Liquid limit and plastic limit apparatus	NO	YES	YES	2 Each	-	-	14,000	-
772		Compaction apparatus using light compaction (Proctor Test)	NO	YES	YES	2	-	-	40,000	-
773		Grain size distribution test apparatus (sieve set)	NO	YES	YES	2 Set	-	-	12,000	-
774		Sieve shaker	NO	YES	YES	2	-	-	6,000	-
775		Permeability apparatus	NO	YES	YES	1	-	-	2,80,000	-
776		Proctor penetrometer	NO	YES	YES	1	-	-	30,000	-
777		Core cutter apparatus	NO	YES	YES	2	-	-	1,00,000	-
778		Rapid moisture meter	NO	YES	YES	2	-	-	24,000	-
779		Pycnometer with burette	NO	YES	YES	6	-	-	1,80,000	-
780		Liquid limit apparatus (Cone penetrometer method)	NO	YES	YES	2	-	-	5,000	-
781		Plane Table with stand and accessories	NO	YES	YES	16	-	-	80,000	-
782	Dumpy level, quick setting level and engineers level	NO	YES	YES	17	-	-	4,25,000	-	

783	Survey Equipments and stores	i) Dumpy level - 8	NO	YES	YES		-	-	-	
784		ii) Quick setting level - 8	NO	YES	YES		-	-	-	
785		iii) Engineer' level - 1	NO	YES	YES		-	-	-	
786		Transit theodolite (Vernier type)	NO	YES	YES	12	-	-	3,60,000	-
787		Prismatic compass	NO	YES	YES	15	-	-	1,50,000	-
788		Planimeter	NO	YES	YES	5	-	-	2,50,000	-
789		Lavelling staves (All aluminium)	NO	YES	YES	5	-	-	15,000	-
790		Total Station	NO	YES	YES	2	-	-	9,00,000	-
791		Ranging rods	NO	YES	YES	60	-	-	1,80,000	-
792		Pantagraph	NO	YES	YES	2	-	-	20,000	-
793		Optical square	NO	YES	YES	5	-	-	25,000	-
794		Abney level	NO	YES	YES	5	-	-	20,000	-
795		Tangent clinometer (Indian Pattern)	NO	YES	YES	5	-	-	25,000	-
796		Mirror stereoscope	NO	YES	YES	1	-	-	25,000	-
797		Telescopic Alidade	NO	YES	YES	2	-	-	2,40,000	-
798		Prismatic binoculars	NO	YES	YES	1	-	-	20,000	-
799		Metric chain/non-metrics	NO	YES	YES	10	-	-	20,000	-
800		Metallic taps/Fibre glass/Invertape	NO	YES	YES	20	-	-	10,000	-
801		Tentage, camp equipment and other misc. items and instruments	NO	YES	YES	L.S	-	-	1,00,000	-
802		Modern survey equipment	NO	YES	YES	L.S	-	-	20,00,000	-
803		Theodolite (Digital) Distomat	NO	YES	YES	1	-	-	4,50,000	-
804		Electronics Distance Measurement (EDM)	NO	YES	YES	1	-	-	50,000	-
805		Total Station	NO	YES	YES	1	-	-	4,50,000	-
806		GPS Hands Instrument	NO	YES	YES	1	-	-	30,000	-
807		Hydraulic Bench	NO	YES	YES	2	-	-	10 Lakh	-
808		Impact of Jet apparatus	NO	YES	YES	1	-	-	1 Lakh	-
809		Flow measurement apparatus by Venturimeter and Orificemeter	NO	YES	YES	1	-	-	80,000	-
810		Pipe Friction apparatus	NO	YES	YES	1	-	-	70,000	-
811		Orifice and Mouthpiece apparatus	NO	YES	YES	1	-	-	70,000	-
812		Bernoulli's Theorem apparatus	NO	YES	YES	1	-	-	70,000	-
813	Flow over a notch apparatus	NO	YES	YES	1	-	-	80,000	-	
814	Losses in pipe bends apparatus	NO	YES	YES	1	-	-	40,000	-	

815	Fluid Mechanics and Irrigation Laboratory Equipments	Reynold's apparatus	NO	YES	YES	1	-	-	40,000	-	
816		Working models of: - Pelton wheel Turbine - Francis - Reciprocating - Centrifugal pump - Hydraulic Ram - Kaplan turbine	NO	YES	YES	1 Each	-	-	25,000	-	
817		Manometers of different types and pressure gauges like: - Piezometer - 6 - Differential Manometers (Double column type manometer) - 10 - Universal manometers (Single column type manometer) -2 - Inclined tube manometer - 2 - Bourden pressure gauges - 2	NO	YES	YES	24	-	-	1,00,000	-	
818		Current meter	NO	YES	YES	1	-	-	30,000	-	
819		Centrifugal pump test Rig.	NO	YES	YES	1	-	-	70,000	-	
820		Submergible pump set apparatus	NO	YES	YES	1	-	-	20,000	-	
821		Misc.tools etc.	NO	YES	YES	L.S	-	-	2,50,000	-	
822		Civil Engineering Fabrication and Erection Shop Equipments	Masonry erection tools, such as iron pans, trowels, plumb bobs, showels, sets pick axes, corner squares etc.	NO	YES	YES	10	-	-	5,00,000	-
823			Carpenter's tool such as tenonsaw, planes screw drivers, chisel, sets, sets marking guages, pliers, hammers, augers,bevel squares, files, drills etc.	NO	YES	YES	10	-	-	5,00,000	-
824			Plumber tools, plumbing vice, die and tap sets, pipe wrenches of different sets sizes, pipe cutters, spanner sets, hammer plier.	NO	YES	YES	5	-	-	2,50,000	-
825	Centering, shuttering and scaffolding (for an ordinary residential building)		NO	YES	YES	1 Set	-	-	5,00,000	-	
826	Pipes and pipe fittings, valves, gully traps, GI grating, manhole, covertraps, WC pan with foot rest, flushing cistern, urinal pan with cistern, taps, wash basin, water meter etc.		NO	YES	YES	L.S	-	-	5,00,000	-	
827	Hoisting and conveying equipment tripod, hoist, pulleys, ladders, ballis etc. Compressed air equipment with accessories - 1		NO	YES	YES	L.S	-	-	5,00,000	-	

828		Steel fabrication equipment with fabricating small trusses, reinforcement cages, small girder, column beam connections, column truss connection	NO	YES	YES	1 Set	-	-	10,00,000	-
829		Floor grinding/polishing machine, spray guns etc	NO	YES	YES	L.S	-	-	10,00,000	-
830	Environmental Engineering Lab Equipments	Lovibond comparator (for colour determination)	NO	YES	YES	1	-	-	10,000	-
831		Colorimeter (for colour determination)	NO	YES	YES	1	-	-	3,000	-
832		Centrifuge	NO	YES	YES	1	-	-	1,50,000	-
833		Turbidimeter	NO	YES	YES	1	-	-	25,000	-
834		pH meter	NO	YES	YES	1	-	-	60,000	-
835		Jar test apparatus (Flocculator)	NO	YES	YES	1	-	-	15,000	-
836		Dissolved oxygen meter	NO	YES	YES	1	-	-	71,000	-
837		B.O.D incubator	NO	YES	YES	1	-	-	4,00,000	-
838		Water bath with digital controller	NO	YES	YES	1	-	-	25,000	-
839		Hot air oven	NO	YES	YES	1	-	-	25,000	-
840		Hot plate	NO	YES	YES	2	-	-	2,000	-
841		Bacteriological incubator	NO	YES	YES	1	-	-	20,000	-
842		Colony counter	NO	YES	YES	1	-	-	5,000	-
843		Water sampler	NO	YES	YES	1	-	-	50,000	-
844		Water analysis kit	NO	YES	YES	1	-	-	25,000	-
845		Water distill	NO	YES	YES	1	-	-	25,000	-
846		Conductivity meter	NO	YES	YES		-	-	2,000	-
847		Electronic balance	NO	YES	YES	1	-	-	50,000	-
848		Chemical Balance	NO	YES	YES	1	-	-	56,000	-
849		Inverted microscope	NO	YES	YES	1	-	-	3,50,000	-
850		Model of oxidation ditch	NO	YES	YES	1	-	-	35,000	-
851		Working model of Trickling Filter	NO	YES	YES	1	-	-	40,000	-
852		Misc. items like noise measurement apparatus etc.	NO	YES	YES	L.S	-	-	50,000	-


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