

## 6 Appendix

### 6.1 List of Machines

Sr. No.	Machine	Year of Investment	Estimated Cost	Purpose
4	IoT Lab - High End IoT Trainer Kits - Raspberry Kits - 10-25 Nos ((All varied versions)	2019-20	0.1	Training
5	Embedded Training System (Modular Embedded Development Platform NV5004B, Nvisduno) - 2 Nos	2019-20	0.04	Training
7	AI, AR, VR & ML Lab	2019-20	0.6	Production/Training
11	3D Printer Accessories/RE Sw	2019-20	0.13	Training
13	New Software's (a) MATLAB - 10 User Perpetual license	2019-20	0.03	Training
14	Electronics Design Software - LabVIEW Professional Development System Suite (Academic Version) 04 Users	2019-20	0.05	Training
16	All Labs Anti-Static Matting 10000 sqft area	2019-20	0.05	Training
19	PCB printer with PTH process for double side - 1 No	2019-20	0.14	Training
20	Advance photo plotter with Developer Machine - 1 No	2019-20	0.22	Training/Production
21	CNC Wire Cut Machine (Including Standard Accessories & Tooling) 1 No	2019-20	0.16	Training
22	3D Printer (3D Printing/CNC Carving/Laser Engraving/Scanner) - 1 No	2019-20	0.08	Training

Sr. No.	Machine	Year of Investment	Estimated Cost	Purpose
23	Pillar Type Drill Machine (Including Standard Accessories & Tooling) - 1 No	2019-20	0.008	Training/Production
24	Hydraulic Surface Grinder (Including Standard Accessories & Tooling) - 1 No	2019-20	0.085	Training/Production
25	Smart Boards - 5 Nos	2019-20	0.07	Training
26	Center Lathe Machine (Including Standard Accessories & Tooling)	2020-21	0.4	Training/Production
27	CNC Turning Center (Trainer) (Including Standard Accessories & Tooling)	2020-21	0.15	Training/Production
28	CNC Vertical Machining Center (Trainer) (Including Standard Accessories & Tooling)	2020-21	0.15	Training/Production
29	CNC Turning Center (Including Standard Accessories & Tooling)	2020-21	0.35	Training/Production
30	Vertical Profile Projector	2020-21	0.06	Training
31	Hand Tools	2020-21	0.015	Training
32	Measuring Instruments (Mitutoyo)	2020-21	0.01	Training
33	Solidworks (Standard 2019)	2020-21	0.05	Training
34	Catia (V5 Academic)	2019-20	0.03	Training
35	CAM (Master CAM)	2019-20	0.03	Training
36	CAE (MATLAB)	2020-21	0.03	Training
37	Injection Molding Machine (Including Standard Accessories & Tooling)	2020-21	0.18	Training/Production
38	All in One PC - 50 Nos	2020-21	0.45	Training

Sr. No.	Machine	Year of Investment	Estimated Cost	Purpose
39	5 - Axis VMC (Including Standard Accessories & Tooling)	2020-21	0.25	Training/Production
40	PLC Trainer (2 Each) ( Siemens, Allen Bradley-, Mitsubishi) with software and communication cables	2019-20	0.3	Training
41	PIC16 & 18 Microcontroller Trainer Kit - 4 Each	2019-20	0.04	Training
42	Arduino Trainer Kit (4 Nos.)	2019-20	0.02	Training
43	Mobile Lab Equipments Glass Absorber-01 Nos TSP Form Tape-01 Nos Window Press Jig with Window Press Pad -01 Nos OCTA Disassembly Jig Upper and lower-1 Set Infrared Workstation-1No Ultrasonic pcb cleaner-1No Hot plate-1No	2019-20	0.015	Training
44	FAX Trainer kit-02 Nos	2019-20	0.0075	Training
45	EPABX Trainer kit-02 Nos	2019-20	0.0075	Training
46	Telephone Trainer kit-02 Nos	2019-20	0.0025	Training
47	Magnifier with Lamp - 02 No	2019-20	0.015	Training
48	RF Signal Generator-02 Nos	2019-20	0.0025	Training
49	SMPS Repair Trainer-1No	2019-20	0.0025	Training
50	Amplitude modulation/demodulation trainer-02 Nos	2019-20	0.003	Training

Sr. No.	Machine	Year of Investment	Estimated Cost	Purpose
51	Frequency modulation/demodulation trainer-02 Nos	2019-20	0.003	Training
52	Pulse amplitude modulation/demodulation trainer-02 Nos	2019-20	0.003	Training
53	Pulse width modulation/demodulation trainer-02 Nos	2019-20	0.003	Training
54	Pulse code modulation/demodulation trainer-02 Nos	2019-20	0.004	Training
55	Delta modulation/demodulation trainer-02 Nos	2019-20	0.004	Training
56	Frequency shift keying modulation/demodulation trainer-02 Nos	2019-20	0.004	Training
57	Digital Watt Meter-02 Nos.	2019-20	0.004	Training
58	Induction Cooker -02 nos.	2019-20	0.001	Training
59	Complete Electronics Components trainer kit-02 no	2019-20	0.007	Training
60	Multimeter Analog -02 Nos.	2019-20	0.002	Training
61	Inverter 650 VA with Battery 150 Ah,12 V	2019-20	0.0025	Training
61	Varied Model Mobile Phones - 10 Nos	2019-20	0.01	Training
61	Welding Lab 1. Welding Simulator - 1 No 2. PVC Welding M/C - 1 No 3. Air Plasma Custting Machine - 1 No	2019-20	0.15	Training
61	Class Room Benches - 30	2019-20	0.05	Training

Sr. No.	Machine	Year of Investment	Estimated Cost	Purpose
61	Animation Lab H/w S/w 1. DSLR Camera - 02 Nos 2. MAYA, Illustrator, After Effects, 3DS Max, Photoshop, Premier Pro Software - 5 Users	2019-20	0.12	Training
62	Lab Chairs - 50	2019-20	0.03	Training
<b>Total</b>			<b>4.73</b>	

## 6.2 ART-D

Sr. No.	Head
1	Building 1500 SQM@ Rs 40000/SQM
2	Entrepreneurship Development cum Incubation center
3	Rural artisan, Craftsman & technician Training (Footwear, handicrafts, electrical appliances etc)
4	Farm Machinery Repair & maintenance (Threshers, tillers etc)
5	Solar & Biomass/Bio Gas plant-Design, Operation & Maintenance
6	Two/Three-Wheeler Repair & Servicing
7	Construction skills- Mason, Plumber, Welder etc

- ▶ The proposed amount for ART-D is 16.5 Cr
- ▶ These heads are indicative and TCs shall customize based on their needs

### 6.3 Infrastructure

Sr. No.	Head	Proposed Civil Works	Investment in Rs Cr	Estimating Agency
1	Campus beautification	Complete Roof Water-Proofing, Periodic Building Maintenance ,Uplift - Façade and Facia ,Re-Electrification (Complete Wiring Change), Renovation of Road, Beautification of Park	1	Irrigation Circle - Ramnagar
2	Capacity Expansion (Main Building)	Diploma Block as per AICTE norms - Plan Design and Approval by DDA	11	Irrigation Circle - Ramnagar
3	Capacity Expansion (Hostel)	Girls Hostel = 1000 Sq m Boys Hostel Expansion = 500 Sq m	3	Irrigation Circle - Ramnagar
4	Student Amenities & Other Utilities	AC, Street Lights, Heaters, Canteen Furniture, Recreation Facility	0.5	E-Procurement/GEM
5	Zero Waste campus	Mini Bio Gas Plant	0.05	E-Procurement
6	Plug and Play	-	-	-
7	Extension or Sub centres (considered under GC)	Haldwani EC (500 Sqm) -Computers ,Software Licences, Mechanical Machines, Electronics and Other Labs, Furniture/Office Setup/Misc.	10	E-Procurement
8	ICT Infrastructure	Computers, Smart Boards	0.45	E-Procurement
<b>Total</b>			<b>26</b>	