



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

DEPARTMENT OF MECHANICAL ENGINEERING

LABORATORY DETAILS OF EQUIPMENT AND SOFTWARE

S. No	Lab Name	Details	Qty	Date of Procurement	Cost (Rs)	
1	Center for Automation and robotics	Equipment	1. CNC Lathe TL 160	1	08/07/2019	1416000
			2. CNC Vertical Machining Center	1	26/09/2022	1593000
			3. CNC FANUC Simulator	1	30/09/2019	314116
			4. CNC 4-Axis Wood Routing Machine	1	09/02/2022	737500
			5. 6-Axis Mini Robot with offline Aristosim programming software	1	20/03/2017	653611
			6. Industry Standard Planning Machine	1	13/06/2017	944905
			7. Double Spindle PCB Drilling CNC 6050 Thread Rolling Machine.	1	26/03/2022	794022
			8. Cylindrical Grinding Machine	1	07/10/2020	1211860
				1	20/07/2022	1268500
			9. Desktop with 5 Axis CNC Router Machine	1	18/06/2020	405000
			10. Electro Discharge Rapid drill.	1	18/12/2019	974000
11. BFW Vertical milling Machine	1	06/09/2016	828175			
Total					11140689	
2	Center for Manufacturing and Material testing	Equipment	1. Hydraulic trainer Kit and Pneumatic Trainer Kit.	1	27/12/2019	442500
			2. Rotating Fatigue Machine and Pin-on-Disc Machine	1	25/09/2019	1416000
			3. Servo Control Universal Testing Machine	1	24/02/2022	875000
Total					2733500	
3	Prototype-Development and testing	Equipment	1. Laser Engraving and Cutting Machine	1	14/02/2020	354000
			2. Monster 3D Printing Machine	1	22/11/2021	430500
			3. Elegoo Neptune 4 Pro 3D Printing Machine	4	27/11/2023	261370
Total					1045870	
4	Simulation Software	Software	1. Solid works (60 Users)	1	20/08/2020	424800
			2. MATLAB (100 Users)	1	14/03/2017	1106282
			3. CATIA (30 Users)	1	30/06/2013	672456
			4. Ansys (50 Users)	1	08/10/2015	690000
			5. MSC Nastran-MD FEA Bundle	1	21/08/2015	950000
			6. CADEM software for CNC programming (30 Users)	1	18/12/2019	188800
Total					4032338	
Grand Total					1,89,52,397	



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