

**Name of the Organization: Central Institute of Plastics Engineering & Technology (CIPET)**

**Website link : [cipet.gov.in](http://cipet.gov.in)**

**Ministry / Department : Ministry of Chemicals & Fertilizers / Deptt. of Chemicals & Petrochemicals**

**Disclaimer:** The below information is purely indicative and the **Central Institute of Plastics Engineering & Technology (CIPET), (Deptt. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers)** will not be liable to any potential bidder for any decision taken / not taken on the basis of the projected figures.

**Financial Year - 2020-21**

### **Machinery**

<b>S.No.</b>	<b>Description of Items</b>	<b>Broad specification Parameters</b>	<b>Qty</b>	<b>Accounting Unit</b>	<b>Estimated Value of Procurement (Rs. in Lakhs)</b>
1	Tool Room Machine	CNC Lathe	3	Nos.	66.00
2	Tool Room Machine	CNC Co-ordinate Measuring Machine (CNC-CMM)	1	Nos.	29.00
3	Tool Room Machine	CNC Milling Machine (Small Size)	3	Nos.	228.00
4	Tool Room Machine	CNC Milling Machine (Big Size)	1	Nos.	220.00
5	Tool Room Machine	CNC EDM Machine (Small Size)	2	Nos.	250.00
6	Tool Room Machine	CNC Wirecut EDM	4	Nos.	332.00
7	Tool Room Machine	Tool & Cutter Grinder	2	Nos.	28.00
8	Tool Room Machine	3D Printer & Scanner	2	Nos.	120.00
9	Tool Room Machine	Robotics Manipulator	1	Nos.	12.00
10	Tool Room Machine	Rapid Prototyping Machine	1	Nos.	91.00
11	Tool Room Machine	Universal Milling Machine	3	Nos.	30.00
12	Tool Room Machine	Auto CAD Software - 10 License	1	Nos.	20.00
13	Tool Room Machine	CATIA/Pro-E/Unigraphics - 20 users	1	Nos.	60.00
14	Tool Room Machine	Hypermesh/ Ansys/ Delcam/ MasterCAM	1	Nos.	12.00
15	Testing Equipment	Universal Testing Machine - 50kN	1	Nos.	26.00
16	Testing Equipment	WVTR	1	Nos.	31.00
17	Testing Equipment	Atomic Absorption Spectrophotometer (AAS),	1	Nos.	38.00
18	Testing Equipment	FTIR	1	Nos.	14.00
19	Testing Equipment	Differential Scanning Calorimetry (DSC)	1	Nos.	30.00
20	Testing Equipment	Thermo Gravimetric Analysis (TGA)	1	Nos.	25.00
21	Testing Equipment	Fluorescent Light Apparatus for UV Exposure (UVB)	1	Nos.	14.00
22	Testing Equipment	XRD (Table top)	1	Nos.	15.00
23	Testing Equipment	Electrospinning Unit	1	Nos.	11.00
24	Testing Equipment	Bio-Degradation setup with Auto Titrastor & Kjeldal Apparatus	3	Nos.	90.00
25	Testing Equipment	Climatic Chamber	1	Nos.	10.00
26	Testing Equipment	Volume and Surface Resistivity Test	1	Nos.	12.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
27	Testing Equipment	Arc Resistance	1	Nos.	10.00
28	Testing Equipment	Creep Tester	1	Nos.	15.00
29	Testing Equipment	Dust Chamber	1	Nos.	15.00
30	Testing Equipment	Flex Tester	1	Nos.	10.00
31	Testing Equipment	Izod/Charpy Impact Tester for Plastics	1	Nos.	15.00
32	Processing Equipment	Fully Automatic Injection Moulding Machine 30T	1	Nos.	25.00
33	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 80T	1	Nos.	22.00
34	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 180T	1	Nos.	55.00
35	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_450T	1	Nos.	69.00
36	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_300T	2	Nos.	98.00
37	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_650T	1	Nos.	110.00
38	Processing Equipment	RPVC Pipe Extruder (Single Screw with post Extrusion Equipments)	1	Nos.	25.00
39	Processing Equipment	Polyolefin Pipe Extruder	1	Nos.	25.00
40	Processing Equipment	Hydraulic Compression Moulding Press-30T	1	Nos.	25.00
41	Processing Equipment	PLC Hydraulic Trainer	2	Nos.	20.00
42	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding Machine - ½ Ltr.	1	Nos.	10.00
43	Processing Equipment	TQPP Blown Film Plant	1	Nos.	15.00
44	Processing Equipment	Pipe Extruder with Downstream Equipment	1	Nos.	21.00
45	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding with Parison Programming - 1 litre	1	Nos.	17.00
46	Processing Equipment	Single Layer Extrusion Blown Film Unit with Carona Treater	1	Nos.	10.00
47	Processing Equipment	Microprocessor Controlled Automatic PET Preform Stretch Blow Moulding Machine 2-5 Litre	1	Nos.	35.00
48	Processing Equipment	Recycling Extrusion Plant with Pellatizing Machine	1	Nos.	30.00
49	Processing Equipment	Thermoforming Machine (Lab Model)	1	Nos.	10.00
50	Processing Equipment	Ultrasonic Welding Machine	1	Nos.	10.00
51	Processing Equipment	Scrap Grinder - 100	1	Nos.	10.00
52	R&D Equipment	Electrical Laboratory setup	1	Nos.	150.00
53	R&D Equipment	Mold Flow	1	Nos.	20.00
54	R&D Equipment	Fused Filament Fabrication	1	Nos.	75.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
55	R&D Equipment	Low velocity Ballistic Impact Tester	1	Nos.	10.00
56	R&D Equipment	E-Beam Lithography	1	Nos.	44.85
57	R&D Equipment	Mask Aligner	1	Nos.	15.15
58	R&D Equipment	Hollow Fiber spinning set-up	1	Nos.	25.00
59	R&D Equipment	Chemical Vapour Deposition	1	Nos.	30.00
60	R&D Equipment	Coefficient of Friction	1	Nos.	25.00
61	R&D Equipment	Electro-Spining Unit	1	Nos.	20.00
62	R&D Equipment	Multijet Fusion	1	Nos.	300.00
		<b>Total (A)</b>	<b>78</b>		<b>3,236.00</b>

### Raw material / Consumables

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Processing Raw material / Consumables	Plastic raw material / master batches & other consumables	Lumpsum	Kg / nos.	1,777.35
2	R&D Raw material / consumables	Calibration & R & D Expenses, Chemicals, Polymers, Nanomaterials, Safety measures, Load cells, Filters, Analysers, & Miscellaneous items	Lumpsum	Kg / nos.	216.93
3	Testing Raw material Consumables	Chemicals, Silicon Oil, Lab items, Standard Solutions, Chemicals other consumables etc .	Lumpsum	Kg / nos.	176.43
4	Tool Room Raw material / consumables	Tools, spare parts, Raw Materials, Maintenance items etc.,	Lumpsum	Kg / nos.	356.62
5	Training Raw material / consumables	Stationery, uniform, safety items, training Kit, course material, Regular Training Accessories etc.,	Lumpsum	Kg / nos.	659.96
		<b>TOTAL (B)</b>			<b>3,187.29</b>

		<b>GRAND TOTAL (A+B)</b>			<b>6,423.29</b>
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### Financial Year - 2021-22

#### Machinery

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Tool Room Machine	CNC Lathe	3	Nos.	66.00
2	Tool Room Machine	CNC Co-ordinate Measuring Machine (CNC-CMM)	1	Nos.	29.00
3	Tool Room Machine	CNC Milling Machine (Small Size)	3	Nos.	228.00
4	Tool Room Machine	CNC Milling Machine (Big Size)	1	Nos.	220.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
5	Tool Room Machine	CNC EDM Machine (Small Size)	2	Nos.	250.00
6	Tool Room Machine	CNC Wirecut EDM	3	Nos.	249.00
7	Tool Room Machine	Tool & Cutter Grinder	1	Nos.	14.00
8	Tool Room Machine	3D Printer & Scanner	1	Nos.	60.00
9	Tool Room Machine	Robotics Manipulator	1	Nos.	12.00
10	Tool Room Machine	Rapid Prototyping Machine	1	Nos.	91.00
11	Tool Room Machine	Crane (Big Size)	2	Nos.	30.00
12	Tool Room Machine	Universal Milling Machine	2	Nos.	20.00
13	Tool Room Machine	Auto CAD Software - 10 License	1	Nos.	20.00
14	Tool Room Machine	CATIA/Pro-E/Unigraphics - 20 users	1	Nos.	60.00
15	Tool Room Machine	Hypermesh/ Ansys/ Delcam/ MasterCAM	1	Nos.	12.00
16	Testing Equipment	Universal Testing Machine - 50kN	1	Nos.	26.00
17	Testing Equipment	WVTR	1	Nos.	31.00
18	Testing Equipment	Gas Permeability Analyzer	1	Nos.	27.00
19	Testing Equipment	Atomic Absorption Spectrophotometer (AAS),	2	Nos.	76.00
20	Testing Equipment	FTIR	2	Nos.	28.00
21	Testing Equipment	Differential Scanning Calorimetry (DSC)	2	Nos.	60.00
22	Testing Equipment	Thermo Gravimetric Analysis (TGA)	1	Nos.	25.00
23	Testing Equipment	Fluorescent Light Apparatus for UV Exposure (UVB)	1	Nos.	14.00
24	Testing Equipment	Modulated Differential Scanning Calorimeter	1	Nos.	45.00
25	Testing Equipment	Thermal Mechanical Analyser	1	Nos.	38.00
26	Testing Equipment	Dynamic Mechanical Analyser	1	Nos.	45.00
27	Testing Equipment	Gel Permatation Chromatograph	1	Nos.	30.00
28	Testing Equipment	Bio-Degradation setup with Auto Titrastor & Kjeldal Apparatus	3	Nos.	90.00
29	Testing Equipment	Volume and Surface Resistivity Test	1	Nos.	12.00
30	Testing Equipment	Arc Resistance	1	Nos.	10.00
31	Testing Equipment	Creep Tester	1	Nos.	15.00
32	Testing Equipment	Dust Chamber	1	Nos.	15.00
33	Testing Equipment	Flex Tester	1	Nos.	10.00
34	Testing Equipment	Izod/Charpy Impact Tester for Plastics	1	Nos.	15.00
35	Processing Equipment	All Electrical Microprocessor Controlled Injection Moulding Machine	1	Nos.	47.00
36	Processing Equipment	Fully Automatic Injection Moulding Machine 30T	2	Nos.	50.00
37	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 80T	1	Nos.	22.00
38	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 180T	1	Nos.	55.00
39	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_450T	1	Nos.	69.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
40	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_300T	2	Nos.	98.00
41	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_650T	1	Nos.	110.00
42	Processing Equipment	RPVC Pipe Extruder (Single Screw with post Extrusion Equipments)	1	Nos.	25.00
43	Processing Equipment	Polyolefin Pipe Extruder	1	Nos.	25.00
44	Processing Equipment	Hydraulic Compression Moulding Press-30T	1	Nos.	25.00
45	Processing Equipment	PLC Hydraulic Trainer	2	Nos.	20.00
46	Processing Equipment	Twin Screw Compounder	1	Nos.	31.00
47	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding Machine - ½ Ltr.	1	Nos.	10.00
48	Processing Equipment	TQPP Blown Film Plant	1	Nos.	15.00
49	Processing Equipment	Pipe Extruder with Downstream Equipment	1	Nos.	21.00
50	Processing Equipment	Rotational Moulding Machine - 200 Litre	2	Nos.	30.00
51	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding with Parison Programming - 1 litre	1	Nos.	17.00
52	Processing Equipment	Single Layer Extrusion Blown Film Unit with Carona Treater	1	Nos.	10.00
53	Processing Equipment	Cast Film Extruder	1	Nos.	29.00
54	Processing Equipment	Microprocessor Controlled Automatic PET Preform Stretch Blow Moulding Machine 2-5 Litre	1	Nos.	35.00
55	Processing Equipment	Recycling Extrusion Plant with Pellatizing Machine	1	Nos.	30.00
56	Processing Equipment	Thermoforming Machine (Lab Model)	1	Nos.	10.00
57	Processing Equipment	High Speed Mixer	2	Nos.	20.00
58	Processing Equipment	Ultrasonic Welding Machine	1	Nos.	10.00
59	Processing Equipment	Injection Stretch Blow Moulding Machine	1	Nos.	70.00
60	R&D Equipment	Rapid Prototyping - 3D Printing	1	Nos.	250.00
61	R&D Equipment	Extruder with Blown Film	1	Nos.	300.00
62	R&D Equipment	Ansys Engineering Simulation	1	Nos.	20.00
63	R&D Equipment	Thermal Analysis	1	Nos.	20.00
64	R&D Equipment	Moulds for Solar Floating systems	1	Nos.	50.00
65	R&D Equipment	Ultrasonic Cleaner	1	Nos.	30.00
66	R&D Equipment	Filament Winding Machine	1	Nos.	25.00
67	R&D Equipment	Velocity controlled Falling weight Impact Tester	1	Nos.	20.00
68	R&D Equipment	Micro-Milling	1	Nos.	45.00
69	R&D Equipment	Multichannel Electrochemical workstation	1	Nos.	65.00
70	R&D Equipment	Two-roll Mill	1	Nos.	35.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
71	R&D Equipment	Batch foaming set-up	1	Nos.	13.00
72	R&D Equipment	Surface / Volume Resistivity	1	Nos.	15.00
73	R&D Equipment	Tear Strength Tester	1	Nos.	20.00
74	R&D Equipment	Glove Box	1	Nos.	50.00
75	R&D Equipment	Raman Spectroscopy (FT-Raman Spectrometer)	1	Nos.	50.00
76	R&D Equipment	Cone Calorimeter	1	Nos.	65.00
77	R&D Equipment	Micro Moulding Machine	1	Nos.	120.00
		<b>Total</b>	<b>96</b>		<b>4,050.00</b>

### Raw material / Consumables

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Processing Raw material / Consumables	Plastic raw material / master batches & other consumables	Lumpsum	Kg / nos.	2,309.36
2	R&D Raw material / consumables	Calibration & R & D Expenses, Chemicals, Polymers, Nanomaterials, Safety measures, Load cells, Filters, Analysers, & Miscellaneous items	Lumpsum	Kg / nos.	279.97
3	Testing Raw material Consumables	Chemicals, Silicon Oil, Lab items, Standard Solutions, Chemicals other consumables etc .	Lumpsum	Kg / nos.	203.14
4	Tool Room Raw material / consumables	Tools, spare parts, Raw Materials, Maintenance items etc.,	Lumpsum	Kg / nos.	459.00
5	Training Raw material / consumables	Stationery, uniform, safety items, training Kit, course material, Regular Training Accessories etc.,	Lumpsum	Kg / nos.	734.96
		<b>TOTAL (B)</b>			<b>3,986.43</b>
		<b>GRAND TOTAL (A+B)</b>			<b>8,036.43</b>

### Financial Year - 2022-23

#### Machinery

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Tool Room Machine	CNC Lathe	3	Nos.	66.00
2	Tool Room Machine	CNC Milling Machine (Small Size)	3	Nos.	228.00
3	Tool Room Machine	CNC Milling Machine (Big Size)	2	Nos.	440.00
4	Tool Room Machine	CNC EDM Machine (Small Size)	1	Nos.	125.00
5	Tool Room Machine	CNC Wirecut EDM	2	Nos.	166.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
6	Tool Room Machine	Tool & Cutter Grinder	1	Nos.	14.00
7	Tool Room Machine	Crane (Big Size)	2	Nos.	30.00
8	Tool Room Machine	Hydraulic Press - 5T	1	Nos.	10.00
9	Tool Room Machine	Universal Milling Machine	3	Nos.	30.00
10	Tool Room Machine	Auto CAD Software - 10 License	2	Nos.	40.00
11	Tool Room Machine	CATIA/Pro-E/Unigraphics - 20 users	2	Nos.	120.00
12	Tool Room Machine	Hypermesh/ Ansys/ Delcam/ MasterCAM	1	Nos.	12.00
13	Testing Equipment	Universal Testing Machine - 50kN	2	Nos.	52.00
14	Testing Equipment	WVTR	2	Nos.	62.00
15	Testing Equipment	Gas Permeability Analyzer	1	Nos.	27.00
16	Testing Equipment	Atomic Absorption Spectrophotometer (AAS),	2	Nos.	76.00
17	Testing Equipment	FTIR	2	Nos.	28.00
18	Testing Equipment	Differential Scanning Calorimetry (DSC)	2	Nos.	60.00
19	Testing Equipment	Thermo Gravimetric Analysis (TGA)	2	Nos.	50.00
20	Testing Equipment	Fluorescent Light Apparatus for UV Exposure (UVB)	1	Nos.	14.00
21	Testing Equipment	Modulated Differential Scanning Calorimeter	1	Nos.	45.00
22	Testing Equipment	Dynamic Mechanical Analyser	1	Nos.	45.00
23	Testing Equipment	Bio-Degradation setup with Auto Titrastor & Kjeldal Apparatus	3	Nos.	90.00
24	Testing Equipment	Climatic Chamber	2	Nos.	20.00
25	Testing Equipment	Volume and Surface Resistivity Test	2	Nos.	24.00
26	Testing Equipment	Arc Resistance	2	Nos.	20.00
27	Testing Equipment	Creep Tester	2	Nos.	30.00
28	Testing Equipment	Dust Chamber	2	Nos.	30.00
29	Testing Equipment	Flex Tester	2	Nos.	20.00
30	Testing Equipment	Izod/Charpy Impact Tester for Plastics	2	Nos.	30.00
31	Processing Equipment	All Electrical Microprocessor Controlled Injection Moulding Machine	1	Nos.	47.00
32	Processing Equipment	Fully Automatic Injection Moulding Machine 30T	2	Nos.	50.00
33	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 80T	2	Nos.	44.00
34	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 180T	2	Nos.	110.00
35	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_450T	1	Nos.	69.00
36	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_300T	2	Nos.	98.00
37	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_650T	2	Nos.	220.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
38	Processing Equipment	RPVC Pipe Extruder (Single Screw with post Extrusion Equipments)	2	Nos.	50.00
39	Processing Equipment	Polyolefin Pipe Extruder	2	Nos.	50.00
40	Processing Equipment	Hydraulic Compression Moulding Press-30T	2	Nos.	50.00
41	Processing Equipment	PLC Hydraulic Trainer	2	Nos.	20.00
42	Processing Equipment	Twin Screw Compounder	1	Nos.	31.00
43	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding Machine - ½ Ltr.	2	Nos.	20.00
44	Processing Equipment	TQPP Blown Film Plant	2	Nos.	30.00
45	Processing Equipment	Pipe Extruder with Downstream Equipment	2	Nos.	42.00
46	Processing Equipment	Rotational Moulding Machine - 200 Litre	2	Nos.	30.00
47	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding with Parison Programming - 1 litre	2	Nos.	34.00
48	Processing Equipment	Single Layer Extrusion Blown Film Unit with Carona Treater	2	Nos.	20.00
49	Processing Equipment	Cast Film Extruder	1	Nos.	29.00
50	Processing Equipment	Microprocessor Controlled Automatic PET Preform Stretch Blow Moulding Machine 2-5 Litre	2	Nos.	70.00
51	Processing Equipment	Recycling Extrusion Plant with Pellatizing Machine	2	Nos.	60.00
52	Processing Equipment	Thermoforming Machine (Lab Model)	2	Nos.	20.00
53	Processing Equipment	High Speed Mixer	2	Nos.	20.00
54	Processing Equipment	Ultrasonic Welding Machine	2	Nos.	20.00
55	R&D Equipment	Modulated DSC	1	Nos.	60.00
56	R&D Equipment	Conductivity Measurement	1	Nos.	150.00
57	R&D Equipment	Physical Vapour Deposition (PVD) Systems	1	Nos.	100.00
58	R&D Equipment	Sieve Shaker	1	Nos.	13.00
59	R&D Equipment	Auto CAD	1	Nos.	18.00
60	R&D Equipment	Minor Analytical Softwares	1	Nos.	15.00
61	R&D Equipment	Titanium Vacuum coating machine	1	Nos.	35.00
62	R&D Equipment	Photoluminescence System	1	Nos.	30.00
63	R&D Equipment	Digital Image Correlation (DIC) Software with accessories	1	Nos.	32.00
64	R&D Equipment	Goniometer	1	Nos.	13.00
65	R&D Equipment	Workstations	1	Nos.	10.00
66	R&D Equipment	Video conferencing facility	1	Nos.	20.00
67	R&D Equipment	Multilayer Blown Film Unit	1	Nos.	100.00
68	R&D Equipment	Brookfield Viscometer	1	Nos.	20.00
69	R&D Equipment	Arc Resistance	1	Nos.	20.00



S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
70	R&D Equipment	Gloss Meter	1	Nos.	15.00
71	R&D Equipment	Clean Room facility	1	Nos.	75.00
72	R&D Equipment	Poling Instruments	1	Nos.	20.00
73	R&D Equipment	Dielectric Thermal Analyser (DETA)	1	Nos.	50.00
74	R&D Equipment	MSC Software - 5 users	1	Nos.	16.00
		<b>Total</b>	<b>120</b>		<b>4,050.00</b>

### Raw material / Consumables

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Processing Raw material / Consumables	Plastic raw material / master batches & other consumables	Lumpsum	Kg / nos.	2,628.75
2	R&D Raw material / consumables	Calibration & R & D Expenses, Chemicals, Polymers, Nanomaterials, Safety measures, Load cells, Filters, Analysers, & Miscellaneous items	Lumpsum	Kg / nos.	341.32
3	Testing Raw material Consumables	Chemicals, Silicon Oil, Lab items, Standard Solutions, Chemicals other consumables etc .	Lumpsum	Kg / nos.	223.36
4	Tool Room Raw material / consumables	Tools, spare parts, Raw Materials, Maintenance items etc.,	Lumpsum	Kg / nos.	491.43
5	Training Raw material / consumables	Stationery, uniform, safety items, training Kit, course material, Regular Training Accessories etc.,	Lumpsum	Kg / nos.	807.75
		<b>TOTAL (B)</b>			<b>4,492.61</b>

		<b>GRAND TOTAL (A+B)</b>			<b>8,542.61</b>
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### Financial Year - 2023-24

#### Machinery

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Tool Room Machine	CNC Lathe	2	Nos.	44.00
2	Tool Room Machine	CNC Co-ordinate Measuring Machine (CNC-CMM)	1	Nos.	29.00
3	Tool Room Machine	CNC Milling Machine (Small Size)	2	Nos.	152.00
4	Tool Room Machine	CNC Milling Machine (Big Size)	2	Nos.	440.00
5	Tool Room Machine	CNC EDM Machine (Small Size)	2	Nos.	250.00
6	Tool Room Machine	CNC Wirecut EDM	2	Nos.	166.00
7	Tool Room Machine	Tool & Cutter Grinder	2	Nos.	28.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
8	Tool Room Machine	3D Printer & Scanner	1	Nos.	60.00
9	Tool Room Machine	Robotics Manipulator	1	Nos.	12.00
10	Tool Room Machine	Rapid Prototyping Machine	1	Nos.	91.00
11	Tool Room Machine	CNC Turn Mill	1	Nos.	135.00
12	Tool Room Machine	Crane (Big Size)	2	Nos.	30.00
13	Tool Room Machine	Universal Milling Machine	2	Nos.	20.00
14	Tool Room Machine	Auto CAD Software - 10 License	1	Nos.	20.00
15	Tool Room Machine	CATIA/Pro-E/Unigraphics - 20 users	1	Nos.	60.00
16	Tool Room Machine	Hypermesh/ Ansys/ Delcam/ MasterCAM	1	Nos.	12.00
17	Testing Equipment	Universal Testing Machine - 50kN	1	Nos.	26.00
18	Testing Equipment	WVTR	1	Nos.	31.00
19	Testing Equipment	Gas Permeability Analyzer	1	Nos.	27.00
20	Testing Equipment	Atomic Absorption Spectrophotometer (AAS),	1	Nos.	38.00
21	Testing Equipment	FTIR	2	Nos.	28.00
22	Testing Equipment	Differential Scanning Calorimetry (DSC)	1	Nos.	30.00
23	Testing Equipment	Thermo Gravimetric Analysis (TGA)	2	Nos.	50.00
24	Testing Equipment	Fluorescent Light Apparatus for UV Exposure (UVB)	2	Nos.	28.00
25	Testing Equipment	Modulated Differential Scanning Calorimeter	1	Nos.	45.00
26	Testing Equipment	Dynamic Mechanical Analyser	1	Nos.	45.00
27	Testing Equipment	Bio-Degradation setup with Auto Titrastor & Kjeldal Apparatus	3	Nos.	90.00
28	Testing Equipment	Climatic Chamber	1	Nos.	10.00
29	Testing Equipment	Arc Resistance	1	Nos.	10.00
30	Testing Equipment	Dust Chamber	2	Nos.	30.00
31	Testing Equipment	Flex Tester	2	Nos.	20.00
32	Testing Equipment	Izod/Charpy Impact Tester for Plastics	1	Nos.	15.00
33	Testing Equipment	Gas Chromatography	1	Nos.	55.00
34	Processing Equipment	All Electrical Microprocessor Controlled Injection Moulding Machine	1	Nos.	47.00
35	Processing Equipment	Fully Automatic Injection Moulding Machine 30T	2	Nos.	50.00
36	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 80T	1	Nos.	22.00
37	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 180T	2	Nos.	110.00
38	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_450T	1	Nos.	69.00
39	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_300T	3	Nos.	147.00
40	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_650T	1	Nos.	110.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
41	Processing Equipment	RPVC Pipe Extruder (Single Screw with post Extrusion Equipments)	1	Nos.	25.00
42	Processing Equipment	Polyolefin Pipe Extruder	1	Nos.	25.00
43	Processing Equipment	Hydraulic Compression Moulding Press-30T	1	Nos.	25.00
44	Processing Equipment	PLC Hydraulic Trainer	3	Nos.	30.00
45	Processing Equipment	Twin Screw Compounder	1	Nos.	31.00
46	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding Machine - ½ Ltr.	2	Nos.	20.00
47	Processing Equipment	TQPP Blown Film Plant	2	Nos.	30.00
48	Processing Equipment	Pipe Extruder with Downstream Equipment	1	Nos.	21.00
49	Processing Equipment	Rotational Moulding Machine - 200 Litre	1	Nos.	15.00
50	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding with Parison Programming - 1 litre	2	Nos.	34.00
51	Processing Equipment	Single Layer Extrusion Blown Film Unit with Carona Treater	1	Nos.	10.00
52	Processing Equipment	Cast Film Extruder	1	Nos.	29.00
53	Processing Equipment	Microprocessor Controlled Automatic PET Preform Stretch Blow Moulding Machine 2-5 Litre	1	Nos.	35.00
54	Processing Equipment	Recycling Extrusion Plant with Pellatizing Machine	1	Nos.	30.00
55	Processing Equipment	Thermoforming Machine (Lab Model)	2	Nos.	20.00
56	Processing Equipment	High Speed Mixer	2	Nos.	20.00
57	Processing Equipment	Ultrasonic Welding Machine	1	Nos.	10.00
58	R&D Equipment	Atomic Absorption Spectroscope (AAS)	1	Nos.	120.00
59	R&D Equipment	UV / VIS / NIR	1	Nos.	25.00
60	R&D Equipment	Impedance Analyser and Signal Generator Systems	1	Nos.	75.00
61	R&D Equipment	Hydraulic Press	1	Nos.	100.00
62	R&D Equipment	Catia Software	1	Nos.	15.00
63	R&D Equipment	Pro-E Software	1	Nos.	20.00
64	R&D Equipment	Macromolecular / Molecular Modelling Softwares	1	Nos.	25.00
65	R&D Equipment	Computer Tomography	1	Nos.	200.00
66	R&D Equipment	Electrometer	1	Nos.	10.00
67	R&D Equipment	Electroluminescence Detector	1	Nos.	40.00
68	R&D Equipment	Nanofiber Electro Spinner	1	Nos.	15.00
69	R&D Equipment	Electroplating	1	Nos.	17.80
70	R&D Equipment	B-SIM Software	1	Nos.	20.00
71	R&D Equipment	GD&T Advisor	1	Nos.	10.10
72	R&D Equipment	COMPRO	1	Nos.	19.80
73	R&D Equipment	Compression Moulding Machine	1	Nos.	30.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
74	R&D Equipment	Durometer Hardness Tester	1	Nos.	15.00
75	R&D Equipment	Rockwell Hardness Tester	1	Nos.	15.00
76	R&D Equipment	Dielectric Constant	1	Nos.	15.00
77	R&D Equipment	Salt Spray Test chamber	1	Nos.	10.00
78	R&D Equipment	Erosion / Abrasion Tester	1	Nos.	20.00
79	R&D Equipment	Optical Microscope	1	Nos.	35.00
80	R&D Equipment	Thermal Evaporator system	1	Nos.	10.00
81	R&D Equipment	Linear Motor	1	Nos.	10.00
82	R&D Equipment	3D printer - High Temperature Materials	1	Nos.	40.00
83	R&D Equipment	Hyperworks Software - 5 users	1	Nos.	15.00
84	R&D Equipment	Plastic Process Simulation Software - 20 users	1	Nos.	30.00
		<b>Total</b>	<b>110</b>		<b>4,049.70</b>

### Raw material / Consumables

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Processing Raw material / Consumables	Plastic raw material / master batches & other consumables	Lumpsum	Kg / nos.	2,892.95
2	R&D Raw material / consumables	Calibration & R & D Expenses, Chemicals, Polymers, Nanomaterials, Safety measures, Load cells, Filters, Analysers, & Miscellaneous items	Lumpsum	Kg / nos.	503.01
3	Testing Raw material Consumables	Chemicals, Silicon Oil, Lab items, Standard Solutions, Chemicals other consumables etc .	Lumpsum	Kg / nos.	244.41
4	Tool Room Raw material / consumables	Tools, spare parts, Raw Materials, Maintenance items etc.,	Lumpsum	Kg / nos.	572.05
5	Training Raw material / consumables	Stationery, uniform, safety items, training Kit, course material, Regular Training Accessories etc.,	Lumpsum	Kg / nos.	862.68
		<b>TOTAL (B)</b>			<b>5,075.08</b>

		<b>GRAND TOTAL (A+B)</b>			<b>9,124.78</b>
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### Financial Year - 2024-25

#### Machinery

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Tool Room Machine	CNC Lathe	2	Nos.	44.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
2	Tool Room Machine	CNC Milling Machine (Small Size)	2	Nos.	152.00
3	Tool Room Machine	CNC Milling Machine (Big Size)	1	Nos.	220.00
4	Tool Room Machine	CNC EDM Machine (Small Size)	2	Nos.	250.00
5	Tool Room Machine	CNC EDM Machine (Medium Size)	2	Nos.	290.00
6	Tool Room Machine	CNC Wirecut EDM	2	Nos.	166.00
7	Tool Room Machine	CNC Wire Drill EDM	1	Nos.	40.00
8	Tool Room Machine	Tool & Cutter Grinder	1	Nos.	14.00
9	Tool Room Machine	3D Printer & Scanner	1	Nos.	60.00
10	Tool Room Machine	Rapid Prototyping Machine	1	Nos.	91.00
11	Tool Room Machine	Hydraulic Surface Grinder (Medium Size)	2	Nos.	36.00
12	Tool Room Machine	High Precision Linear Height Master	2	Nos.	40.00
13	Tool Room Machine	Crane (Big Size)	2	Nos.	30.00
14	Tool Room Machine	Universal Milling Machine	2	Nos.	20.00
15	Tool Room Machine	Auto CAD Software - 10 License	1	Nos.	20.00
16	Tool Room Machine	CATIA/Pro-E/Unigraphics - 20 users	1	Nos.	60.00
17	Tool Room Machine	Hypermesh/ Ansys/ Delcam/ MasterCAM	2	Nos.	24.00
18	Testing Equipment	Universal Testing Machine - 50kN	1	Nos.	26.00
19	Testing Equipment	Universal Testing Machine - 100kN	2	Nos.	78.00
20	Testing Equipment	WVTR	1	Nos.	31.00
21	Testing Equipment	Atomic Absorption Spectrophotometer (AAS),	1	Nos.	38.00
22	Testing Equipment	Differential Scanning Calorimetry (DSC)	1	Nos.	30.00
23	Testing Equipment	Thermo Gravimetric Analysis (TGA)	1	Nos.	25.00
24	Testing Equipment	Fluorescent Light Apparatus for UV Exposure (UVB)	2	Nos.	28.00
25	Testing Equipment	Modulated Differential Scanning Calorimeter	1	Nos.	45.00
26	Testing Equipment	Dynamic Mechanical Analyser	1	Nos.	45.00
27	Testing Equipment	Nastran Software	1	Nos.	10.00
28	Testing Equipment	Scanning Electron Microscope	1	Nos.	44.00
29	Testing Equipment	Micro-compounding	2	Nos.	240.00
30	Testing Equipment	Brabendar Lab Compounder	1	Nos.	50.00
31	Testing Equipment	Bio-Degradation setup with Auto Titrastor & Kjeldal Apparatus	2	Nos.	60.00
32	Testing Equipment	Climatic Chamber	2	Nos.	20.00
33	Testing Equipment	Volume and Surface Resistivity Test	2	Nos.	24.00
34	Testing Equipment	Arc Resistance	2	Nos.	20.00
35	Testing Equipment	Creep Tester	3	Nos.	45.00
36	Testing Equipment	Dust Chamber	1	Nos.	15.00
37	Testing Equipment	Flex Tester	1	Nos.	10.00
38	Testing Equipment	Izod/Charpy Impact Tester for Plastics	1	Nos.	15.00
39	Testing Equipment	Xenon Test Chamber	1	Nos.	65.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
40	Processing Equipment	All Electrical Microprocessor Controlled Injection Moulding Machine	1	Nos.	47.00
41	Processing Equipment	Fully Automatic Injection Moulding Machine 30T	2	Nos.	50.00
42	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 80T	1	Nos.	22.00
43	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine - 180T	1	Nos.	55.00
44	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_450T	1	Nos.	69.00
45	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_300T	2	Nos.	98.00
46	Processing Equipment	Microprocessor Controlled Automatic Injection Moulding Machine_650T	2	Nos.	220.00
47	Processing Equipment	RPVC Pipe Extruder (Single Screw with post Extrusion Equipments)	1	Nos.	25.00
48	Processing Equipment	Polyolefin Pipe Extruder	1	Nos.	25.00
49	Processing Equipment	Hydraulic Compression Moulding Press-30T	1	Nos.	25.00
50	Processing Equipment	PLC Hydraulic Trainer	3	Nos.	30.00
51	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding Machine - ½ Ltr.	1	Nos.	10.00
52	Processing Equipment	TQPP Blown Film Plant	1	Nos.	15.00
53	Processing Equipment	Pipe Extruder with Downstream Equipment	1	Nos.	21.00
54	Processing Equipment	Rotational Moulding Machine - 200 Litre	1	Nos.	15.00
55	Processing Equipment	Automatic Microprocessor Controlled Extrusion Blow Moulding with Parison Programming - 1 litre	1	Nos.	17.00
56	Processing Equipment	Single Layer Extrusion Blown Film Unit with Carona Treater	1	Nos.	10.00
57	Processing Equipment	Microprocessor Controlled Automatic PET Preform Stretch Blow Moulding Machine 2-5 Litre	1	Nos.	35.00
58	Processing Equipment	Recycling Extrusion Plant with Pellatizing Machine	1	Nos.	30.00
59	Processing Equipment	Thermoforming Machine (Lab Model)	1	Nos.	10.00
60	Processing Equipment	High Speed Mixer	2	Nos.	20.00
61	Processing Equipment	Ultrasonic Welding Machine	1	Nos.	10.00
62	R&D Equipment	FTIR with Microscope	1	Nos.	75.00
63	R&D Equipment	Capillary Rheometer	1	Nos.	120.00
64	R&D Equipment	FESEM with EDS	1	Nos.	350.00
65	R&D Equipment	UV / VIS / NIR	1	Nos.	25.00
66	R&D Equipment	Clean Room	1	Nos.	100.00

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
		<b>Total</b>	<b>91</b>		<b>4,050.00</b>

### Raw material / Consumables

S.No.	Description of Items	Broad specification Parameters	Qty	Accounting Unit	Estimated Value of Procurement (Rs. in Lakhs)
1	Processing Raw material / Consumables	Plastic raw material / master batches & other consumables	Lumpsum	Kg / nos.	3,295.73
2	R&D Raw material / consumables	Calibration & R & D Expenses, Chemicals, Polymers, Nanomaterials, Safety measures, Load cells, Filters, Analysers, & Miscellaneous items	Lumpsum	Kg / nos.	568.03
3	Testing Raw material Consumables	Chemicals, Silicon Oil, Lab items, Standard Solutions, Chemicals other consumables etc .	Lumpsum	Kg / nos.	268.82
4	Tool Room Raw material / consumables	Tools, spare parts, Raw Materials, Maintenance items etc.,	Lumpsum	Kg / nos.	562.46
5	Training Raw material / consumables	Stationery, uniform, safety items, training Kit, course material, Regular Training Accessories etc.,	Lumpsum	Kg / nos.	957.26
		<b>TOTAL (B)</b>			<b>5,652.30</b>
		<b>GRAND TOTAL (A+B)</b>			<b>9,702.30</b>