

CIPET CSTS Ranchi

DETAILS OF MACHINE/ EQUIPMENTS/ ACCESSORIES FOR SHIFTING

A. Concise data for Machine shifting Ranchi:					
Sr.no	Department	Total Machine/ accessories Weight in Ton	Current location of machines/ Accessories	Shifting location (New Academic Block)	Distance between new and old location in mtrs.
1	Testing	7.34	Ground floor	First floor	300
2	Processing	87.83	Ground floor	Ground floor	150
3	Tool room	57.4	Ground floor	Ground floor	150
4	CAD/ CAM	1.4	First floor	Ground floor	50
5	LTC	0.4	First floor	First floor	50
6	VTC	0.25	First floor	First floor	50
7	Library	2.3	Ground floor	First floor	50
8	Maintenance	1.3	Ground floor	First floor	50
9	Physics and Chemistry Lab	0.5	First floor	First floor	50
10	Communication lab	0.5	First floor	Ground floor	50
Weight in Ton:		159.22			

B. Department wise data for Machine shifting:

1. Department : Testing							
Sr. No.	Name of the Equipments	Qty.	Location	Machine Size in (Ft.) Approximate (LxWxH)	Approx. Machine/ Accessories Weight per Qty. in kg	Total weight of Machine/ accessories in kg	Approx. Total Amount (Rs.)
1	ESCR Apparatus	1	Plastics Testing Lab (PTC)- CIPET:CSTS, Ranchi	1.8X1.4X2.2	30	30	77,195.00
2	Comparative Tracking Index	2		3.1X1.9X2.9	90	180	13,80,000.00
3	Flammability Tester	1		3.9X2.1X4.4	50	50	1,44,913.00
4	Hot Temperature Bath (upto 100°c)	2		4.2X4.3X5.0	150	300	3,66,188.00
5	Long/Short term Hydrostatic Pressure Test Apparatus for Pipes	2		4.6X3.3X4.0	100	200	6,40,604.00

6	Free Falling Dart Impact Tester for Plastics Films	2		1.5X1.5X8.9	40	80	1,75,928.00
7	Muffle Furnace (upto 1000° C)	1		1.3X2.3X1.9	30	30	50,006.00
8	Haze/Clarity Meter	1		1.3X2.5X0.9	10	10	3,15,000.00
9	Melt Flow Index	3		1.8X1.4X2.4	30	90	9,60,000.00
10	Dielectric Strength Apparatus	2		1.9X1.7X3.3	80	160	11,84,300.00
11	Hydraulic Compression Moulding	1		2.0X1.5X3.4	100	100	1,64,150.00
12	Heat Deflection Temperature (HDT) Apparatus	1		2.6X1.8X2.1	50	50	1,76,184.00
13	Vicat Softening Point (VSP) Apparatus	1		2.6X2.0X2.0	50	50	
14	Universal Tester 50 kN tonnes (UTM) (Fully computerised)	2		2.5X1.9X7.9	100	200	43,22,000.00
15	Punching Press	1		3.0X3.0X4.8	10	10	1,09,760.00
16	Precision Balance	2		0.7X0.9X1.1	5	10	1,62,360.00
17	Opacity Tester	1		1.5X0.8X0.6	5	5	51,660.00
18	Carbon Black Content Apparatus	2		3.1X2.0X4.1	20	40	1,50,648.00
19	Falling Weight Impact Tester for Pipe	2		2.9X2.2X12.8	100	200	1,54,350.00
20	Vicker Hardness Number	1		0.8X1.9X2.9	80	80	1,38,500.00
21	Compound Microscop with Hot Plate (Carbon Black Dispersion)	1		1.7X1.1X0.7	30	30	44,887.00
22	Contour Cutter	2		1.8X2.1X3.2	50	100	10,33,200.00
23	Oven (upto 300 oC)	1		4.5X4.1X5.8	100	100	1,38,600.00
24	Melting Point Apparatus	1		1.0X1.1X1.4	20	20	96,795.00
25	Burst Strength	1		1.8X1.6X1.6	20	20	1,23,550.00
26	Two Roll Mill	1		3.9X2.4X5.7	150	150	6,44,530.00
27	Vaccum Oven With Pump	1		2.1X2.6X1.8	50	50	71,000.00
28	DSC	1		1.4X2.3X1.0	60	60	24,55,000.00
29	Limiting Oxygen Index	1		2.4X2.3X3.1	60	60	6,65,531.00
30	Deep Freezer	2		2.2X2.5X4.5	80	160	2,41,128.00

31	Rockwell hardness tester	1		0.6X1.7X2.5	80	80	5,94,500.00
32	Fourier-transform infrared spectroscopy (FTIR)	1		0.9X1.1X1.0	10	10	13,00,000.00
33	Universal testing machine 25 kN	1		2.3X1.5X5.2	120	120	27,29,900.00
34	Co-efficient of friction tester Vertical	1		1.8X1.6X3.7	50	50	95,000.00
35	Atomic absorption spectrophotometer	1		4.0X2.5X1.9	100	100	35,50,000.00
36	Hot Oil bath (with oil)	2		4.3X3.3X3.5	200	400	1,29,600.00
37	Co-efficient of friction tester Horizontal type	1		2.0X1.2X0.7	30	30	3,49,200.00
38	Elmendorf Tear tester	2		1.7X1.1X5.2	50	100	14,84,100.00
39	Climatic Chamber	1		3.4X3.4X5.9	150	150	7,25,483.00
40	Muffle Furnace (upto 1200° C)	1		1.4X2.5X2.0	20	20	25,000.00
41	Karl Fischer Titrator	1		1.2X1.7X2.0	10	10	38,051.00
42	UV Weatherometer	1		4.8X1.8X4.9	100	100	11,73,600.00
43	Soxhlet Apparatus	1		3.0X2.2X4.7	10	10	7,626.00
44	Dehumidifier	1		1.1X0.9X1.9	10	10	45,763.00
45	Hardness tester (Shore A & D)	2		0.5X0.3X0.15	1	2	35,280.00
46	Barcol Hardness Tester	2		0.90X0.65X0.32	1	2	1,44,480.00
47	Gloss meter	2		0.82X0.68X0.32	1	2	5,08,748.00
48	Bulk Density	2		0.5X0.5X0.85	2	4	1,70,000.00
49	Drop Impact Tester for Cement Bag	1		3.3X3.3X6.7	110	110	25,000.00
50	Air Compressor	1		4.6X1.6X3.2	50	50	1,09,949.00
51	Resistance to Pull out Joint-Emitting Pipe	1		1.6X1.6X2.8	30	30	58,051.00
52	Resistance to Pull out Joint-Emitters	1		1.6X1.6X2.1	20	20	
53	Emission flow variation tester (Emitting Pipe)	1		4.8X2.3X3.3	60	60	1,41,940.00
54	Emission flow variation tester (Emitters)	1		4.8X2.3X3.3	60	60	1,34,687.00
55	Resistance of emitting pipes to Hydrostatic pressure	1		5.0x2.0x4.0	50	50	1,45,524.00

56	Weighing Balance (1000 Kg)	1		0.42X0.3X1.2	5	5	12,627.00
57	Computer with Printers	12		1.2x1.2x1.2	100	1200	1,50,000.00
58	Miscellaneous (Includes Cylinders, End Fittings, Gauges, Dead Weight, Spare parts, Tools, Document File, Chemicals, AC Units, Fan etc.)	–		–	200	200	3,00,000.00
59	Furnitures (Wooden rack, Table, chair)	16		–	80	1280	80,000.00
60	Almirah (Metal)	3		–	50	150	50,000.00
61	UPS + Battery	3		–	100	300	1,50,000.00
Total		109			3610	7340	3,07,02,076.00

2. Tool Room Department							
List of Machines							
Sl. No.	Name of the item	Qty.	Location	Machine Size(Ft.) approximate	Machine Weight per Qty (In kg) approximate	Total weight of Machine/ accessories in kg	Approx. Machine Cost (per machine) in Rs.
1	Conventional Lathe	6	Toolroom	5.6x3.0x4.7	700	4200	2,65,500.00
2	Conventional Lathe (BIG)	5	Workshop	12x2.0x5.0	1500	7500	4,86,818.00
3	Vertical Milling Machine	3	Toolroom	6.4x5.7x6.6	1500	4500	8,73,200.00
4	Universal Milling Machine	3	Workshop	5.6x5.4x6.4	1200	3600	8,58,438.00
5	Radial Drilling Machine	2	Toolroom	2.2x4.0x6.6	700	1400	5,09,760.00
6	Radial Drilling Machine (BIG)	1	Workshop	8.0x3.8x9.0	1600	1600	11,26,363.00
7	Pillar Drilling Machine	4	Toolroom	2.8x2.0x5.8	100	400	47,790.00
8	Surface Grinding Machine	3	Toolroom	5.7x4.0x6.0	1000	3000	8,20,380.00
9	Cylindrical Grinding Machine	3	Toolroom	7.2x4.0x6.0	1200	3600	6,18,002.00
10	Shaper	3	Toolroom	5.0x3.0x4.8	200	600	1,18,944.00
11	Tool & Cutter	2	Toolroom	6.6x4.5x4.4	150	300	8,49,600.00

12	Pantograph Engraving Machine	3	Toolroom	3.1x3.6x5.0	500	1500	3,83,836.00
13	Pedastel Grinding Machine	4	Toolroom	2.5x1.8x3.9	150	600	42,480.00
14	Power Hack Saw	2	Workshop	4.2x2.7x4.9	250	500	1,15,758.00
15	CNC-Turning Machine	2	CNC Lab	8.7x6.0x5.3	1000	2000	22,64,209.00
16	CNC-Milling Machine MTAB	2	Toolroom	6.7x6.0x10.0	1200	2400	28,05,615.00
17	CNC-Milling Machine V1587	1	Toolroom	10.2x10.0x11	1500	1500	76,28,761.00
18	CNC-Milling Machine-V1066	1	Toolroom	13.5x8.5x11	1050	1050	55,81,931.00
19	CNC-Milling Machine-Haas (VF 2)	1	CNC Lab	10.0x8.1x11.0	3000	3000	47,44,190.00
20	EDM	2	CNC Lab	8.0x7.0x9.2	2500	5000	91,98,311.00
21	EDM Wire cut	1	Toolroom	9.2x7.5x8.3	2500	2500	78,04,948.00
22	EDM Wire cut	1	CNC Lab	9.2x7.5x8.3	3100	3100	78,04,948.00
23	CMM	1	Workshop	6x6x8	1500	1500	29,27,277.00
24	Height Gauge	1	Testing Lab	1.0x1.0x3.5	50	50	3,88,540.00
25	Optical Profile projector	1	Testing Lab	3.4x2.8x3.4	90	90	5,46,051.00
26	Surface Table	1	Toolroom	4.9x2.8x3.7	1,000.00	1000	17500
TOTAL		59			29,240.00	56490	5,88,29,150.00
Accessories							
1	Tools and accesories	1	Toolroom		200.00	200	500000
2	Machine spare parts	1	Toolroom/Workshp/CNC Lab		200.00	200	1000000
3	Raw Material	1	Toolroom/Workshp/CNC Lab		300.00	300	100000
4	Products/Sampels	1	Toolroom/Workshp/CNC Lab		200.00	200	20000
TOTAL					900.00	900	1620000

3. Processing Department

List of Machines

Sr. No.	Name of the Machine	Qty	Machine's Dimensions (in feet) (L x W x H)	Approx Per Machine Weight KG	Approx. Cost (per machine)	Total weight of Machine/ accessories in kg	Remarks
1	Microprocessor Controlled Automatic Injection moulding machine-180T	2	17.11 X 4.6 X 6.5	6000	26,18,700.00	12000	
2	Hot Plate Welding Equipment	3	4 X 4 X 2.5	100	2,95,000.00	300	
3	Movable Crane	1	10.4 X 6.7 X 16	1000	63,453.20	1000	
4	Hydraulic Trolley	2	5.5 X 2.4 X 4.1	100	38,000.00	200	
5	PLC Microprocessor Based Electro - Pneumatic Trainer	3	3.4 X 1.7 X 2.6	50	1,09,515.00	150	
6	Ultrasonic Plastic Welding Machine	1	1.11 X 1.2 X 3.6	200	2,75,000.00	200	
7	Weighing Balance	2	2 X 2.7 X 3.3	20	23,625.00	40	
8	Air Compressor	2	7 X 3.4 X 4.8	500	4,39,200.00	1000	
9	PLC Microprocessor Based Electro-Hydraulic trainer	3	3.9 X 2.3 X 5	100	2,49,460.00	300	
10	Scrap Grinder	2	3.6 X 2.2 X 4.4	100	1,08,280.00	200	
11	Colour Blender	1	6 X 2.5 X 3.5	300	1,01,103.00	300	
12	Bench model Vacuum Forming Machine	2	6.2 X 2.11 X 7.10	300	390000	600	
13	Lab model Rotational Moulding Machine_200Ltr.	1	9.10 X 10.8 X 8.6	2000	7,69,544.00	2000	
14	Hopper Loader with Drier	4	Loader - 1.6 X 1.2 X 2.6 Hopper - 2.6 X 2.6 X 4.8	100	98,600.00	400	
15	HDPE Pipe Extruder	1	Ex - 8.5 X 2.4 X 5.10 Co Ex - 4.10 X 1.5 X 5.7 Cooling Bath - 13.5X2.5X4 Haul Off - 4.1 X 2 X 4.10 Cutter - 7 X 3.2 X 4.6 Storage - 10.6 X 3.8 X 4.10	2000	20,35,408.00	2000	
16	Cooling Tower	2	6.2 X 5.4 X 6.5	500	92,000.00	1000	
17	Air Cooled Chiller	2	5.9 X 3.5 X 6.5	1000	4,88,835.00	2000	
18	Microprocessor Controlled Automatic injection moulding machine-350T	1	22 X 5.5 X 7	12000	43,70,750.00	12000	
19	Microprocessor Controlled Automatic injection moulding machine-130T	1	15.5 X 3.10 X 5.9	4000	18,62,750.00	4000	

20	Microprocessor Controlled Automatic injection moulding machine-100T	2	14.2 X 3.7 X 5.6	3000	19,52,075.00	6000	
21	Air Cooled Chiller	2	5.9 X 3.5 X 6.5	1000	4,88,835.00	2000	
22	Single Layer Blown Film Plant	1	10 X 8 X 9	2000	11,78,618.00	2000	*dimension taken of dismantled parts
23	Hot Air Oven/Drier (100 kg) (Elmech)	3	3 X 3.9 X 4.2	100	45,000.00	300	
24	Rotational Molding Machine with Pulveriser-500 Ltr.	2	Rotational - 13.6 X 10.5 X 6.5 Pulveriser - 7.3 X 4.10 X 10.4	3000	12,50,000.00	6000	
25	Hot Air Oven/Drier (100 kg)(DM Instruments)	1	3.5 X 2.10 X 3.9	100	94,500.00	100	
26	Multi Layer Extrusion Blown Film Plant	1	12 X 8 X 8	3000	23,85,004.00	3000	*dimension taken of dismantled parts
27	Twin Screw Compounder	1	Ex - 7 X 3 X 5.11 Cooling Bath - 5.10X1.7X 3 Cutter - 1 X 1.3 X 3.4	500	26,03,071.00	500	
28	Hydraulic Compression Molding Machine (40Ton)	1	4.9 X 2.6 X 7.4	1000	10,31,051.00	1000	
29	Multi Blades Scrap Grinder/Granulator	1	6 X 3.6 X 5	500	4,22,881.00	500	
30	Microprocessor Controlled Automatic Injection Moulding Machine_400-450T	1	Injection - 11.6 X 6.8 X 5.6 Clamping - 15.10 X 7.1 X 6.8	16000	76,27,000.00	16000	
31	Microprocessor Controlled Automatic Extrusion Blow Moulding Machine_1/2 Ltr.	1	6.8 X 8.3 X 7	1000	19,32,000.00	1000	
32	Film Cutting & sealing Machine	1	8.10 X 5.2 X 6.7	800	4,65,508.47	800	
33	Injection Moulds (different sizes)	31	Small Size: 1x1x1 Medium Size: 2x1.5x1.5 Big Size: 2.5x2x2	200 to 800	45,00,000.00	8000	
34	Steel Almirah	2	3x1.5x6	100		200	
35	File Cabinet	1	5x1.5x3	100		100	
36	Table	1	4.5x2.5x2.5	20		20	
37	Printer's Table	1	3x1.5x1.5	20		20	
38	Miscellaneous (spare parts of machine, machine's table, oil drum etc)			600		600	
TOTAL				63210.00	4,04,04,766.67	87,830	

4. STC/VTC Department**List of Equipment**

Sl. No.	Name of the item	Nos.	Location	Machine Size (In Fit) (L X W X H)	Machine Weight per Qty (In Kg) approximate	Total weight of Machine / accessories in kg	Approx Value (In Rs.)
1	OFFICE TABLE	3	VTC	2.5X5	25.00	75.00	30,000.00
2	Plastics Cution Chairs	6	VTC	NA	5.00	30.00	9,000.00
3	IRON RACK	1	VTC	5.5X3	15.00	15.00	2,000.00
4	CANNON PRINTER	1	VTC	NA	10.00	10.00	32,000.00
5	FINGERPRINT SENSOR - MANTRA	2	VTC	NA	0.15	0.30	2,500.00
6	FINGERPRINT SENSOR - NETGEAR	1	VTC	NA	0.15	0.15	2,500.00
7	PROJECTOR - EPSON, SONY	2	VTC(1), Electrical Dept.(1)	NA	1.00	2.00	30,000.00
8	FILLING CABINET PLYWOOD	1	VTC	4.5X1.5X3	30.00	30.00	5,000.00
9	COOLER SYMPHONY	1	VTC	NA	9.00	9.00	12,000.00
10	STEEL ALMIRAH CASE BOOK	1	VTC	5X3	25.00	25.00	8,000.00
11	BIOMETRIC MACHINE FACE ID	1	VTC	NA	0.20	0.20	12,000.00
12	MONITOR	4	VTC	2X1.5	1.00	4.00	8,000.00
13	CPU	5	VTC	1.5X1.5	5.00	25.00	75,000.00
14	UPS	4	VTC	1x1	5.00	20.00	8,000.00
15	Executive Chair	1	VTC	NA	5.00	5.00	10,000.00
TOTAL		34			136.50	250.65	2,46,000.00

5. LTC Department							
List of Items							
Sl. No.	Name of the item	Qty.	Location	Items Size (In Fit) (L X W X H)	Weight per Qty (In Kg) approximate	Total weight of Machine/ accessories in kg	Approximate Value per unit in Rs.
1	Computer	3	CIPET Ranchi Admin block	2x1	10	30	50000
2	UPS	2		1x0.5	5	10	5000
3	Office Table	3		5 x2.5x 2.5	15	45	5000
4	Faculty Table	1		8.2x4.2x2.8	20	20	5000
5	Almirah	1		6.5 x 1.8 x 3.1	50	50	7000
6	Iron Rack	2		6.8 x 1.5 x 3.1	20	40	6000
7	HOD Chair	1		-	10	10	3000
8	Visitor chair	7		-	5	35	1000
9	Office Chair	8		-	5	10	1500
10	Laptop	1		-	2	2	50000
11	Projector	2		-	5	10	35000
12	Department Documents	-		-	100	100	-
13	Telephone	1		-	2	2	2500
14	filing cabinet	1		5.3x1.6x3	50	50	5000
6. Physics Laboratory							
1	Faculty Table	1	CIPET Ranchi Admin block	4 x4x 2	15	15	5000
2	All Apparatus as per attached list	-		-	50	50	300000
3	Experiment Table	2		6x3x4	50	100	20000/-
4	Furniture	9		8x2x3	20	180	10000/-
TOTAL					434	759	481000

8. Communication Laboratory							
1	COMPUTER TABLE	3	CIPET Ranchi, First Floor, Communication Lab	20x4x4	150	450	₹ 15,000.00
2	MONITOR	6		1x1.5	5	30	₹ 50,000.00
3	CPU	4		1x1	5	20	
4	KEYBOARD	4		NA	1	4	
5	MOUSE	0		NA	0		
TOTAL		17			161	504	₹ 65,000.00

9. Maintenance Department							
List of Items							
Sl. No.	Name of the item	Qty.	Location	Size (L X B X H) (Ft.) approximate	Weight per Qty (In Kg) approximate	Total weight of Machine/ accessories in kg	Cost in Rs.
1	Office Table	2	Electrical & Electronics Lab	4.7x 2.7x 2.7	15	30	10,000.00
2	Display Table	5	Electrical & Electronics Lab	6 x 2.8 x 2.7	20	100	25,000.00
3	Steel Glass Door Almira	1	Electrical & Electronics Lab	1.4 x 3x 5.8	30	30	7,000.00
4	Wooden Almira	1	Electrical & Electronics Lab	5.2 x1.6 x 3	25	25	5,000.00
5	Office Chair	4	Electrical & Electronics Lab	NA	8	32	10,000.00
6	PA System	1	Electrical & Electronics Lab	NA	30	30	40,000.00
7	Resistance Load Box	1	Electrical & Electronics Lab	NA	20	20	6,000.00
8	Three Phase Motor	2	Electrical & Electronics Lab	NA	15	30	30,000.00

9	Single Phase Motor	3	Electrical & Electronics Lab	NA	42	126	12,000.00
10	Plastics Chair	15	Electrical & Electronics Lab	NA	15	225	7,500.00
11	Wodden Chair	7	Electrical & Electronics Lab	NA	10	70	3,500.00
12	Trainers Boards	9	Electrical & Electronics Lab	NA	20	180	20,000.00
13	Display items	10 Cartons	Electrical & Electronics Lab	NA	20	200	25,000.00
14	MISCELLANEOUS	5 Cartons	Electrical & Electronics Lab	NA	50	250	10,000.00
TOTAL					320	1348	2,11,000.00

10. Library department							
List of Items							
Sl. No.	Name of the item	Location	Qty.	1 Item Size(L*H*W IN Ft.) approximate	Item Weight per Qty (In Kg) approximate	Total weight of Machine/ accessories in kg	Approx Cost (in Rupees)
1	COMPUTER	CIPET ADMIN. Building	1	1.5X1X0.1	20	20	80,000.00
2	HP Printer		1	1.1X0.8X1.1	1	1	30,000.00
3	Bar Code Printer		1	0.8X0.7X0.7	2	2	20,000.00
4	Bar Code Scanner		1	0.5X0.3X0.3	0.5	0.5	4,500.00
5	Rack		7	8X0.5X1.1	50	350	1,05,000.00
6	Godreg rack		8	2.10X5.7X1	100	800	2,40,000.00
7	Table		8	8X2.6X0.3	40	320	1,20,000.00
8	System Table		1	4.7X2.6X2.6	20	20	20,000.00
9	Steel Chair		39	1.8X2.10X1.5	10	390	2,34,000.00
10	Plastic Chair		1	1.4X2.10X1.4	5	5	2,000.00
11	Plastic & Clouth Chair		1	1.5X2.10X1.5	5	5	5,000.00
12	Magazine Stand		1	1X5X0.9	10	10	5,000.00
13	News Paper Stand		1	3.2X4.9X0.3	10	10	10,000.00
14	Books		1800	-	400	400	8,25,000.00
TOTAL					673.5	2333.5	17,00,500.00

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