

Cost Analysis

Part Number	Part Name	Dimensions (in mm)	Starting Material	Quantity	Volume (mm3)	Density (in gm/cm3)	Mass (in gm)	Rate of Material (in Rs/kg)	Cost (in Rs)
2	Base plate	450 * 450 * 6	Mild Steel Sheet	1	1215000	7.85	9537.75	60	572.26
3	Main Frame Support	345 * 50 * 6	Mild Steel Flat	2	207000	7.85	1624.95	60	97.5
4	Worm Support	180 * 50 * 6	Mild Steel Flat	2	108000	7.85	847.8	60	50.87
5	Sprocket Shaft	Φ 12.7 * 230	Mild Steel Rod	1	58241	7.85	457.655	65	14.88
6	Worm Shaft	Φ 12.7 * 280	Mild Steel Rod	1	35452	7.85	278.675	65	18.11
7	Angles	50 * 50 * 6	Mild Steel Angle	4	120000	7.85	942	60	56.52
9	Bed Plate	50 * 40 * 6	Mild Steel Flat	3	36000	7.85	282.6	60	16.96
10	Bed Hang	50 * 12 * 3	Mild Steel Flat	6	10800	7.85	84.78	60	5.08
11	Bed Support	25 * 25 * 3 * 50	Mild Steel Flat	6	36000	7.85	282.6	60	16.96
12	Bed Axel	100 * Φ 4	Mild Steel Rod	3	3768	7.85	29.58	65	1.92
13 - 16	Handle Assembly	Φ 25 * 75 * 25	Mild Steel Rod	1	37172	7.85	292.02	65	18.98
17	Sprockets	Φ 63.3 * 35	Mild Steel Rod	4	134628	7.85	1057.395	65	68.77
18	Worm	Φ 22.5 * 105	Mild Steel Rod	1	41728	7.85	328.13	65	21.33
19	Worm Gear	Φ 65.59 * 42.5	Mild Steel Rod	1	143527	7.85	1126.475	65	73.22
20	Ramp	16 * 16 * 1.5	Mild Steel Sheet	1	384	7.85	3.01	60	0.18
	Chains			2					
	Large Nuts			18			160	85	13.6
	Small Nuts			6			40	85	3.4
	Large Bolts			24			260	85	22.1
	Small Bolts			6			60	85	5.1
		Total Cost of Raw Materials -							1077.74