

## **Cost Analysis**

Total weight of project = 21.5kg

Weight of steel used = approx. total weight of project = 21.5kg

### **1. Cost of Material**

Density of mild steel = 7850kg/m<sup>3</sup>

Cost of mild steel = 100Rs/kg

Weight of mild steel used = 21.5 kg

Total cost of material = Rs. 2150

### **2. Cost of machining:**

1. Drilling: (6 X 1.5 hr) X Rs 75/hr = Rs 675

2. 3D printing: 3hrs X Rs. 100/hr = Rs. 300

4. Turning: (6×1hr) X Rs 75/hr = Rs. 450

### **3. Cost of electric kit = Rs. 1000**

### **4. Labour**

Unskilled Labour Rate = Rs. 650/Day = Rs. 81.25/Hr

Hours of Unskilled labour = 6 x 15 x 2 = 180

Unskilled Labour Charge = Rs. 14625

Skilled Labour Rate = Rs. 850/Day = Rs. 106.25/Hr

Hours of Skilled Labour = 6 x 1 x 3 = 18

Skilled Labour Charge = Rs. 1913

Total Labour Cost = Rs. 16538

### **5. Additional Cost:**

1. Cost of Sprocket = Rs 300

2. Cost of Chain = Rs 300

**Total cost of project = Rs. 21713**