

## BILL OF MATERIALS

### 1] Holding Unit-

Sl.No.	Part Name	Material with which the part is made up of	Description about part	Quantity required	Fabrication process if needed
1.	Cylindrical base	Acrylic sheet	R=26cm T=1cm	1	Laser cutting
2.	Cylindrical holder	Acrylic sheet	R=26cm T=0.5cm	1	Laser cutting
3.	Rectangular base	Foam sheet	(40cm*39cm)	1	Cutting
4.	Cylindrical rod	Nylon rod	R=2cm T=35cm	1	Cutting, milling
5.	Bearing	Stainless steel		1	-
6.	Screw(i)	Metal	R=0.4cm L=2.2cm	8	-
7.	Half sized cylindrical rod	Nylon rod	R=1.5cm T=14cm	4	Cutting
8.	L channels(i)	Aluminium	L=42cm T=0.3cm	4	Cutting, bending
9.	L channels(ii)	Aluminium	L=40cm T=0.3cm	4	Cutting, bending
10.	L channels(iii)	Aluminium	L=38.4cm T=0.3cm	2	Cutting, bending
11.	Half sized L channels	Aluminium	L=19cm T=0.3cm	2	Cutting
12.	Metal strips	Aluminium	(39cm*2cm) T=0.3cm	2	Cutting, drilling
13.	Half sized metal strips	Aluminium	(10cm*2cm) T=0.3cm	2	Cutting, drilling
14.	Screw(ii)	Metal	R=0.6cm L=1cm	32	-

Sl.No.	Part Name	Material with which the part is made up of	Description about part	Quantity required	Fabrication process if required
15.	C holder	Aluminium sheet	(10cm*5cm*4cm)	1	Cutting, bending
16.	Spur gear	Thermosetting plastic		2	-
17.	Worm gear	Thermosetting plastic		1	-
18.	DC Motor(iv)	Metal	-	1	-
19.	Screw(iii)	Metal	R=1cm L=2.3cm	1	-
20.	Positioner	Nylon rod	R=1.5cm L=5cm	2	Cutting
21.	Screw(v)	Metal	R=0.7cm L=5cm	2	-
22.	Gripper	Acrylic sheet		6	Laser cutting
23.	U clamp	Stainless sheet	-	1	-

## 2] Capping Unit-

Sl.No.	Part Name	Material with which the part is made up of	Description about part	Quantity required	Fabrication process if needed
1.	DC Motor(i)	Metal	-	1	-
2.	DC Motor(ii)	Metal	-	1	-
3.	DC Motor(iii)	Metal	-	1	-
4.	Bush	Nylon rod	R=1cm L=3cm	1	Cutting, milling
5.	Threaded Iron rod	Stainless steel	R=0.5cm L=7.5cm	1	Cutting
6.	Sheet metal	Stainless steel	(20cm*5cm) T=0.2cm	1	Cutting, bending
7.	Strap(i)	Foam sheet		1	Cutting, drilling
8.	Half sized Sliding rod	Stainless steel	R=1cm L=7cm	4	-
9.	Sheet metal U clamps	Stainless steel	-	2	Bending
10.	C clamps	Stainless steel	-	2	Bending
11.	Nuts	Metal	0.3cm	4	-
12.	Capper	Metal		1	-
13.	Screw(ii)	Metal	R=0.6cm L=1cm	24	-
14.	Screw(iii)	Metal	R=1cm L=2.3cm	2	-
15.	Holding Platform(i)	Foam sheet	(38cm*26cm) T=0.5cm	1	Cutting, drilling
16.	Holding Platform(ii)	Foam sheet	(24cm*14cm) T=0.5cm	1	Cutting, drilling
17.	Strap(ii)	Foam sheet	(27cm*9cm) T=0.5cm	2	Cutting, drilling
18.	L clamps	Stainless steel	(2cm*1cm) T=0.3cm	8	-

