

1. Microprocessor Controlled Automatic Injection Moulding Machine 300-350T			
Sl. No	Item	Unit	Specication
Injection Unit			
1	Shot Capacity (in GPPS)	g	Minimum 750
2	SCREW DIAMETER	mm	60-80
3	SCREW L/D RATIO	-	Specify
4	INJECTION PRESSURE	bar	Min. 1500 and above
5	INJECTION Speed	mm/sec	Min. 180
6	INJECTION RATE	cc/sec	Min. 280 and above
7	PLASTICIZING RATE (GPPS)	gm/sec	Specify (higher will be preferred)
8	Max. SCREW SPEED	rpm	Specify
9	Heating Capacity	kw	Specify
Clamping Unit			
10	CLAMP FORCE	ton	300-320
11	Mould Opening Stroke	mm	Min. 600 and above
12	MAXIMUM DAYLIGHT	mm	Min. 1300 and above
13	MINIMUM MOULD HEIGHT	mm	Specify
14	Maximum Mould Height	mm	Min. 700 and above
15	PLATEN SIZE	mm	Min. 900 x 900 above
16	DISTANCE BETWEEN TIE ROD	mm	Min. 600 x 600 above
17	EJECTOR STROKE	mm	Min. 160 and above
18	EJECTOR FORCE	ton	Specify
19	MOULD WEIGHT CAPACITY	kg	Specify
20	Hydraulic Multiple core pulling unit	-	specify and quote (Minimum 2 core pulling)
21	Multi stage Air Ejection	-	Specify and Quote (Minimum 2 point)
22	Clamping Mechanism	-	Specify
General			
23	T Slot Platen	-	Specify and Quote (T Slot is Preferred)
24	Latest Square Platen	-	Specify and Quote
25	Latest Technology Injection unit on LM guides	-	Specify and Quote
26	Robot Interface	-	Specify and Quote
27	Hot Runner Inerface	-	Specify and Quote (Minimum 4 Zones))
28	Interface for Gas Assisted Injection	-	Specify and Quote
29	Water inlet & outlet manifold for Mould cooling	-	Min. 12/12 Channel
30	Computer connectivity	-	Specify
31	Hopper loader cum drier	-	Specify and Quote for suitable capacity
32	Essential/Standard spares	-	Specify and Quote (Standard Tool Kit, NRV, Thermocouple, Band Heater, Short/Extended Nozzle, SSR, Proximity Switch, Limit Switch, Mould Clamps, T-Nut and Studs, Etc.,)
33	MTC (Oil Type)	-	Specify and Quote
34	Safety	-	Specify the Special safety provisions
35	Motor / Pump Type	-	Servo
36	Motor load	-	Specify
37	Machine Dimensions (LxWxH)	-	Specify
38	Total connected load	-	Specify
39	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)
40	Bi-metallic Screw Barrel	-	(Optional) Specify and Quote in addition to standard Screw Barrel

2. Semi Automatic Horizontal Injection Moulding Machine 30-40T			
Sl. No	Item	Unit	Specication
Injection Unit			
1	Shot Capacity (in GPPS)	gms	Min. 35 and above
2	SCREW DIAMETER	mm	20-30
3	SCREW L/D RATIO	-	18:1 - 21:1
4	INJECTION PRESSURE	bar	Min.1600
5	INJECTION Speed	mm/sec	Specify
6	INJECTION RATE	cc/sec	Min. 20
7	PLASTICIZING RATE (GPPS)	gm/sec	Specify (higher will be preferred)
8	Max. SCREW SPEED	rpm	Min. 170

9	Heating Capacity	kw	Specify
Clamping Unit			
11	CLAMP FORCE	ton	30-40
12	Mould Opening Stroke	mm	Min. 180
13	MAXIMUM DAYLIGHT	mm	Min. 350
14	MINIMUM MOULD HEIGHT	mm	Specify
15	Maximum Mould Height	mm	Min. 155 and above
16	PLATEN SIZE	mm	Specify
17	DISTANCE BETWEEN TIE ROD	mm	Min. 210 x 210 above
18	EJECTOR STROKE	mm	Min. 13
19	EJECTOR FORCE	ton	Min. 4
20	MOULD WEIGHT CAPACITY	kg	Specify
21	Clamping Mechanism	-	Specify
General			
22	Control System	-	Specify and Quote
23	T Slot Platen	-	Specify and Quote (T Slot is Preferred)
24	Water inlet & outlet manifold for Mould cooling	-	Min. 4/4 Channel
25	Hopper Capacity	Kg	Specify and Quote for suitable capacity
26	Essential/Standard spares	-	Specify and Quote (Standard Tool Kit, NRV, Thermocouple, Band Heater, Short/Extended Nozzle, SSR, Proximity Switch, Limit Switch, Mould Clamps, T-Nut and Studs, Etc.,)
27	MTC (Oil Type)	-	Specify and Quote
28	Safety	-	Specify the Special safety provisions
29	Motor load	-	Specify
30	Machine Dimensions (LxWxH)	-	Specify
31	Total connected load	-	Specify
32	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)

3. Semi Automatic Vertical Injection Moulding Machine 20-25T			
Sl. No	Item	Unit	Specication
Injection Unit			
1	Shot Capacity (in GPPS)	g	Min. 30 and above
2	INJECTION PRESSURE	bar	Specify
3	INJECTION Speed	mm/sec	Specify
4	INJECTION RATE	cc/sec	Specify
5	Plasticizing capacity	Kg/Hour	Min. 8 and above
6	Heating Capacity	kw	Specify
Clamping Unit			
7	CLAMP FORCE	ton	20-25
8	Mould Opening Stroke	mm	Min. 150 and above
9	DISTANCE BETWEEN TIE ROD	mm	Min. 180 x 180 and above
10	Option for ejection	-	Specify
11	Clamping Mechanism	-	Specify
12	MOULD WEIGHT CAPACITY	kg	Specify
General			
13	Control System	-	Specify and Quote
14	T Slot Platen	-	Specify and Quote (T Slot is Preferred)
15	Water inlet & outlet manifold for Mould cooling	-	Min. 4/4 Channel
16	Hopper Capacity	Kg	Specify and Quote for suitable capacity
17	Essential/Standard spares	-	Specify and Quote
18	MTC (Oil Type)	-	Specify and Quote
19	Safety	-	Specify the Special safety provisions
20	Motor load	-	Specify
21	Machine Dimensions (LxWxH)	-	Specify
22	Total connected load	-	Specify
23	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)

4. Microprocessor Controlled Automatic Extrusion Blow Moulding Machine - 1/2 Litre			
S.NO.	ITEMS	UNITS	SPECIFICATION
MODEL :			
1	Container Capacity	ml	Upto 500
2	Screw Diameter	mm	Min. 30 and above
3	L/D ratio	-	20:1 - 22:1
4	Output	Kg/Hrs	Min. 10 and above
5	Max. Screw Speed	RPM	Min. 75
6	Die Diameter	mm	specify & quote
7	Mould Opening Stroke	mm	min.150
8	Mould Thickness	mm	Min. 170 and above
9	Mould Height	mm	Min. 200
10	Mould Width	mm	Min. 150
11	Plattern Size	mm	specify
12	Connected load	KW	specify
13	Parison control System	Points	10-50 points
14	Hot knife/ wire cutter	-	specify & quote
15	No. OF Stations and Heads	-	Single head and single station
16	Moulds to be supplied for 200ml & 500 ml along with machine	Each one no.	specify & quote
17	De-flashing system	-	Please specify & quote
18	Control System	-	Microprocessor/PLC Controls
19	Oil pump motor power	HP	Specify
20	Compressed air pressure requirement	bar	Specify
21	Air Requirement	CFM	Min. 4 and above
22	Safety	-	Appropriate safety features to be provided
23	Machine Dimension (LxWxH)	mtr.	specify
24	Essential spares	-	specify & quote
25	Optional Double head and double station	-	specify & quote

5. Microprocessor Controlled Single Layer Double Station Extrusion Blow Moulding Machine with Parison Programming - 1 Litre			
S.NO.	ITEMS	UNITS	SPECIFICATION
MODEL :			
1	Container Capacity	ml	upto1000
2	Die Diameter	mm	20-80
3	Screw Diameter	mm	40-50
4	Screw L/D	--	20:1 - 22: 1
5	Output (Plasticizing Capacity)	Kg/Hr.	25 - 35
6	Mould Height	mm	Min. 200 and above
7	Mould Width	mm	Min. 180 and above
8	Mould Thickness	mm	170 and above
9	Mould opening Stroke	mm	150 and above
10	Clamping Force (Desirable)	Ton	Specify and quote
11	Extruder Drive Motor	KW(HP)	Specify and quote for power efficient
12	Servo Hydraulic Motor	KW(HP)	Specify and quote for power efficient
13	Heating Load	KW(HP)	Specify and quote for power efficient
14	Total Connected load	KW(HP)	Specify and quote for power efficient
15	Parison control System	Points	Multi Point parison control system for Minimum 100 points
16	Hot knife/ wire cutter		specify & quote
17	Double Station with Single Head		specify & quote
18	Moulds to be supplied for 1000ml & 500 ml along with machine	Each one	specify & quote
19	Control System	-	Microprocessor/Computer Integrated control
20	Angular Blowing Attachment		specify & quote
21	De-flashing system	-	specify & quote
22	Safety	-	Appropriate safety features to be provided
23	Machine Dimension (LxWxH)	mtr.	specify & quote
24	Essential spares	-	specify & quote
25	Optional Spares		
a.	Water Inlet/Outlet Manifold for mould cooling		specify & quote

b.	Bottom Bowing System		specify & quote
c	Double Head Attachment and Double station		specify & quote

6. Microprocessor Controlled Automatic PET Preform Stretch Blow Moulding Machine 2-5 Litre			
S. NO.	ITEMS	UNITS	SPECIFICATION
1	Container volume	ml	2000 - 5000 (specify the minimum and maximum volume)
2	Output (bottle per hour) (Min.-Max.)	Nos.	800-1500
3	No. of cavities	Nos.	1 - 2
4	Max. Container height	mm	max. 350
5	Max. Container Diameter	mm	specify and quote
6	Moulds: Suitable for 1000 ml, 2000ml and 5000 ml. product size	-	specify and quote
7	Preform neck diameter	mm	25 - 140, specify and quote
8	Microprocessor Control System	-	specify and quote
9	preform holder for different diameter	-	specify and quote
10	OTHER FEATURES	-	
11	i) Preform preheating system	-	specify and quote (lower power consumption is preferred)
12	ii) Preform feeding	-	specify and quote
13	iii) Suitable Air supply and chilled water supply system requirement	-	specify and quote
14	Safety	-	Appropriate safety features to be provided
15	Essential Spares	-	specify and quote
16	Total connected load	-	specify and quote
17	M/c dimensions	-	specify and quote

7. Single Layer Extrusion Blown Film Plant with suitable Corona Treater			
S.NO.	ITEMS	UNITS	SPECIFICATION
1	Screw Diameter	mm	40-50
2	Screw L/D Ratio	-	Specify
3	Extruder Output	Kg/hr	40-80
4	Film Thickness	Micron	10-100
5	Material	-	Specify and quote (HM/HDPE/LDPE/LLDPE)
6	Lay Flat Width	mm	100-700
7	Control System	-	Microprocessor/ PLC Controls/ Computer Integrated Control with synchronisation of whole plant for single point of control
8	Heat Capacity	KW	Specify
9	Drive Motor	HP	Specify
10	Screen Changer	-	Specify
11	Plant should have either rotating/Oscillating Die	-	Suitable units for above extruder size to be provided
12	Melt temperature sensor & Melt Pressure transducers	-	Suitable units for above extruder size to be provided
13	Slitting and winder arrangement		Double station surface winder
14	Total connected load	KW	Please specify and quote
15	Corona Treater	-	Specify and quote
16	Safety	-	Appropriate safety features to be provided
17	Machine Dimensions (LxWxH)		Specify and quote
18	Safety	-	Appropriate safety features to be provided
19	Essential/Standard spares	--	Specify and quote for Standard spares like Die sets, Filters, Heaters , Oscillating take off unit etc for proper functioning of machine.
20	Optional spares/Accessories		
a)	Die for HM/HDPE/LDPE/LLDPE		Specify and quote for compatible with above machine
b)	Hopper Loader cum drier		Specify and quote for compatible with above machine
c)	Gravimetric system for weight/meter control		Specify and quote for compatible with above machine
d)	Ultrasonic thickness measurement system		Specify and quote for compatible with above machine
e)	Water cooling arrangement		Specify and quote for compatible with above machine

8. Recycling Extrusion Plant with Pelletizing Machine			
S.NO.	ITEMS	UNITS	SPECIFICATION
MODEL :			
1	Screw Dia	mm	70 - 80
2	L/D Ratio	--	Please specify and quote
3	Materials	--	Most of the thermoplastics
4	Output	Kg/hr	70-100
5	Temp.	Deg.C	Upto 400
6	Feeding system	--	Suitable Main & Side Feeding systems
7	Down stream equipments		Please specify and quote
8	Strand die		Specify number of strands
9	Stainless Steel Cooling Trough		Please specify and quote
10	Strand Pelletizer (Synchronized cutter to be incorporated for Strand.)		Please specify and quote
11	Standard Accessories		Please specify and quote
12	Mixing elements & others		Please specify and quote
13	Spares		Please specify and quote
14	Control- Microprocessor type		Microprocessor With disply of Screw Torque & die Head Melt Pressure Please specify and quote
15	Safety	-	Appropriate safety features to be provided
16	Computer connecting, data storage, & Analysis		Please specify and quote
17	Melt Pressure and Temperature sensors		Please specify and quote
18	M/c dimension		Please specify and quote
19	Optional Accessories / Attachments	--	Please specify & quote
20	Total Connected load	KW	Please specify

9. Microprocessor Controlled Automatic Injection Moulding Machine 100 - 110T			
Sl. No	Item	Unit	Specication
Injection Unit			
1	Shot Capacity (in GPPS)	g	120 and above
2	SCREW DIAMETER	mm	30-40
3	SCREW L/D RATIO	-	Specify
4	INJECTION PRESSURE	bar	Min. 1600 and above
5	INJECTION Speed	mm/sec	Specify
6	INJECTION RATE	cc/sec	95 and above
7	PLASTICIZING RATE (GPPS)	gm/sec	Specify (higher will be preferred)
8	Max. SCREW SPEED	rpm	Specify
9	Heating Capacity	kw	Specify
Clamping Unit			
10	CLAMP FORCE	ton	100 - 110 Tons
11	Mould Opening Stroke	mm	min. 350 and above
12	MAXIMUM DAYLIGHT	mm	Min. 700 and above
13	MINIMUM MOULD HEIGHT	mm	Max.150
14	Maximum Mould Height	mm	Min. 350 and above
15	PLATEN SIZE	mm	Min. 500 x 500 above
16	DISTANCE BETWEEN TIE ROD	mm	Min. 310 x 310 above
17	EJECTOR STROKE	mm	Minimum 100 (Multi point and Multi Stage) Specify
18	EJECTOR FORCE	ton	Specify
19	MOULD WEIGHT CAPACITY	kg	Specify
20	Hydraulic Multiple core pulling unit	-	specify and quote (Minimum 2 core pulling)
21	Multi stage Air Ejection	-	Specify and Quote (Minimum 2 point)
22	Clamping Mechanism	-	Specify
General			
23	T Slot Platen	-	Specify and Quote (T Slot is Preferred)
24	Latest Square Platen	-	Specify and Quote
25	Latest Technology Injection unit on LM guides	-	Specify and Quote
26	Robot Interface	-	Specify and Quote
27	Hot Runner Inerface	-	Specify and Quote (Minimum 4 Zones))
28	Interface for Gas Assisted Injection	-	Specify and Quote

29	Water inlet & outlet manifold for Mould cooling	-	Min. 8/8 Channel
30	Computer connectivity	-	Specify
31	Hopper loader cum drier	-	Specify and Quote for suitable capacity
32	Essential/Standard spares	-	Specify and Quote (Standard Tool Kit, NRV, Thermocouple, Band Heater, Short/Extended Nozzle, SSR, Proximity Switch, Limit Switch, Mould Clamps, T-Nut and Studs, Etc.,)
33	MTC (Oil Type)	-	Specify and Quote
34	Safety	-	Specify the Special safety provisions
35	Motor / Pump Type	-	SERVO
36	Motor load	-	Specify
37	Machine Dimensions (LxWxH)	-	Specify
38	Total connected load	-	Specify
39	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)
40	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)

10. Rotational moulding Machine with Pulveriser

S.No	Items	Units	Specification
1	Station	Nos.	Single
2	The maximum volume of manufactured container	liter	500 ltr
3	Arm	Nos.	Single
4	Heating Type		Please specify and quote
5	Pulveriser Output	Kg/ hour	min. 80 kg per hour
6	Capacity	Cycle / hour	Please specify and quote
7	The size of the heating chamber,	mm (length, height, width)	Please specify and quote
8	Control system - programmable controller		Please specify and quote
9	fuel consumption	Litre/ hour or Kg/Hr	Please specify and quote
10	Dimensions of the machine	Feet (length, height, width)	Please specify and quote
11	Processing material		PE/ PP/ PVC
12	Mould to be supplied for 500 liter tank		Please specify and quote
13	Total Connected load	KW	Please specify

11. Automatic Hydraulic Compression Moulding Machine 30-40T

S. No	Items	Units	Specification
MODEL :			
1	Capacity/Capability	Ton	30 -40 Tons, For processing Thermoset Plastics like PF, UF, MF, SMC/DMC etc.,
2	Platen size	mm	Min. 300 x 300
3	Day Light	mm	Min. 400
4	Heating system for plattern and mould		Please Specify & Quote
5	Maximum Working Temperature	° C	upto 350
6	Working Pressure	bar	Please Specify & Quote
7	Control System		Microprocessor/PLC Controls/Computer Integrated control
8	Automatic ejection system	--	Please specify
9	Demo mould	--	Please specify and quote for one mould for a typical product with Ejection System
10	Safety	-	Appropriate safety features to be provided
11	Essential Spares	--	Please Specify & Quote
12	Machine dimensions (LxWxH)	mtr	Please Specify & Quote
13	Total Connected load	KW	Please specify

12. Thermoforming Machine (Lab Model)

12. Thermoforming Machine (Lab Model)			
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S.NO.	ITEMS	UNITS	SPECIFICATION
Model :			
1	Forming Area (Min.)	mm	550 x 300 & above
2	Forming Depth / Draw	mm	Please specify and quote
3	Max. Sheet Width	mm	Please specify and quote
4	Sheet Thickness (Min. –Max.)	mm	Please specify and quote
5	Top heating	kW	Please specify and quote
6	Bottom heating	kW	Please specify and quote
7	Material to be formed	-	PS/ PP/ PE /PET/PVC etc.
8	Plug assisted attachment	-	Please specify and quote
9	Vacuum Forming / Pressure Forming.	-	Please specify and quote
10	Sheet roll feeding/ Disposal after forming system attachment	-	Please specify and quote
11	Safety	-	Appropriate safety features to be provided
12	Other Features	-	Please specify and quote
13	Essential Spares	-	Please Specify & Quote
14	Demonstration multicavitymould for products like cup, tray, etc.	-	Please specify and quote
15	Connected load	KW	Please specify and quote
16	Compressor		Please Specify and quote

13. Dehumidifier			
S. NO.	ITEMS	UNITS	SPECIFICATION
Model :			
1	Drying Bin Capacity	Kg	75-100
2	Dry air quantity	m3/hr	Please specify and quote
3	Dew point	°C	Please specify and quote
4	Temperature range	°C	60-150
5	Standard accessories	-	Please specify and quote
6	i) Accurate digital readout of process temperature against set point $\pm 1^{\circ}\text{C}$		
7	ii) Easy to service and maintain : Side panels easily openable		
8	Connected load	KW	Please specify and quote
9	Dimensions	-	Please specify and quote
10	Control	-	Microprocessor/PLC Controls/Computer Integrated control
11	Safety		Appropriate safety features to be provided, Alarm etc

14. Film Cutting & Sealing Machine			
S.NO.	ITEMS	UNITS	SPECIFICATION
Model			
1	Type	mm	Impulse, Floor model foot operated
2	Max Sealing Cutting Size	mm	Max 600
3	Operation	---	Automatic
4	Cutting Speed		500 per Hour
5	Power Supply		Please Specify and quote
6	Safety	-	Appropriate safety features to be provided
7	Other features	--	Suitable Timer & buzzer to be incorporated
8	Essential Spares	-	Please Specify & Quote
9	Machine dimensions (LxWxH)	mtr	Please Specify & Quote
10	Heating Device		One side Single & other Double Sealing Arrangement
11	Counter		Electronic Bag Counter

15. High Speed Mixer			
S. NO.	ITEMS	UNITS	SPECIFICATION
Model :			
1	Mixing capacity	Kg	35-50
2	Drive (Dual Speed)		Please Specify & Quote
3	Mixing Time	Min	8-12
4	Rotor speed	Rpm	Please Specify & Quote
5	Vessel/ Container		Made out of double walled with water cooling facility, inner wall, rotor blade and wiper should be made out of SS, Hot and Cold Mixture Suitable for PVC

6	Power Supply		Please Specify & Quote
7	Safety		Appropriate safety features to be provided
8	Drive control Pannel with Temp,Torque,& Timer with Hooter		Please Specify & Quote
9	Temperature indicator/timer		Please Specify & Quote
10	Essential Spares		Please Specify & Quote

16. Hopper drier with Automatic loader Unit			
S.NO.	ITEMS	UNITS	SPECIFICATION
1	Drying Bin Volume	Ltr	75-120
2	Air Volume	m3/hr	80-120
3	Temperature range	°C	60-150
4	Standard accessories	-	Please specify and quote
5	· Accurate digital readout of process temperature against set point $\pm 1^{\circ}\text{C}$		
6	Connected load	KW	Please specify and quote
7	Dimensions	-	Please specify and quote
8	Control	-	Microprocessor control
Loader Specification			
9	Storage volume	Ltr	Please specify and quote
10	Connected load	KW	Please specify and quote
11	Material Throughput	kg/hr	Please specify and quote
12	Safety	-	Appropriate safety features to be provided, Alarm etc
13	Standard accessories	-	Please specify and quote

17. Hot Air Oven 100 kg			
S.No	Items	Units	Specification
1	Capacity	Ltr	200 and above (100 kg)
2	Display		Digital
3	Inner Size (WxDxH)	cm	specify
4	Heater Load	Kg/Hr	Please Specify and quote
5	No. Of Shelves	nos	6 -10
6	Temperature Range	C	Upto 300
7	Temprature Uniformity		+/- 2 deg C
8	Insulation	-	Please Specify and quote
9	Safety Device	-	Thermostat/ please specify and quote
10	Type	-	Forced Convection System/ others
11	Temperature Controller	-	Digital Temperature Controller Cum Indicator
12	Power		Please Specify & Quote
13	Electrical Supply	-	Please Specify & Quote
14	Essential Spares		Please Specify & Quote

18. Hot Stamping Machine			
S.NO.	ITEMS	UNITS	SPECIFICATION
Model :			
1	Stamping area	mm	150*250 (Movable)
2	Type		Pneumatic/Hydraulic
3	Maximum Pressure	Kg	800
4	Power Used	KW	Please Specify and quote
5	Stamping stroke	mm	Please Specify and quote
6	Machine Dimensions	(L x W x H)	Please Specify and quote
7	Temperature	°C	0°C-300°C
8	Hot Stamping Speed	Pcs/hrs	800
9	Time	Sec.	0 – 10
10	Safety	-	Appropriate safety features to be provided
11	Control System		Microprocessor type
12	Automatic foil feeding system		Please Specify & Quote
13	Essential Spares		Please Specify & Quote

19. Mould Temperature Controller (MTC)			
S.NO.	ITEMS	UNITS	SPECIFICATION
Model :			
1	Capacity (Max. Temperature)	°C	Ambient to 200°C
2	Fluid		Oil
3	Flow rate	LPM	Please specify and quote
4	Heating capacity	KW	Please specify and quote
5	Pressure	Bar	Please specify and quote
6	Heating Pipe		Stainless Steel
7	Standard accessories		Please specify and quote
8	Safety	-	Appropriate safety features to be provided like Pump Reversal, Oil Shortage, overheating/Pump overload etc
9	Machine dimensions (LxWxH)	mtr	Please specify and quote
10	Essential spares		Please specify and quote
	<ul style="list-style-type: none"> · Accurate digital readout of process temperature against set point $\pm 1^{\circ}\text{C}$ · Easy to service and maintain : Side panels easily openable · Tubular cooling coil and stainless steel heater · Reliable and high performance pump · All moveable parts in contact with the water medium made of stainless steel 		

20. Plastic Lumps Cutting Machine			
S.No	Items	Units	Specification
1	Output	kg/hour	100-150
2	Roter OD	mm	Specify
3	Fix Blade		Min 2
4	Mesh Size	mm	50
5	Motor Power	HP	20
6	Reducer Box		Hard surface gears box
7	Rotor Blade Quantity		Please specify
8	Blade Material		Special Tool Material
9	Hardness of Blade		Hrc58-60
10	Working Power		Please specify and quote
11	Essential spares		Please specify and quote

21. Screen Printing Machine			
S.No	Items	Units	Specification
1	Print Area	mm	Min 200mm X 300 mm
2	Screen Frame Size	mm x mm	Min. 500 mm x 500 mm
3	Max off-Contact	mm	10
4	Max substrate Thickness	mm	5 ~ 7 mm (Depends on mesh tension)
5	Screen Frame Thickness	inch	1.0" ~ 1.5"
6	Power Consumption	-	Please specify and quote
7	Essential spares		Please specify and quote

22. Cooling Tower- 50 TR			
ITEMS	UNITS		SPECIFICATION
Model :			FRP Induced draft cross flow type with basin
Capacity	TR		50
Water flow rate	LPM		Please specify and quote
Hot water temperature	°C		50
Cold water temperature	°C		28
Wet bulb temperature	°C		Please specify and quote
Inlet, outlet connection size	mm/inch		Please specify and quote
No. of Motor/HP/RPM			
All fastners, nut, bolts etc. should be made of SS			
Machine dimensions (LxWxH)	mtr		Please specify

23. Ultrasonic Welding Machine			
S.NO.	ITEMS		UNITS
MODEL :			

1	Type		Table Model
2	Ultra Sonic Output	W/KHz	Please specify
3	Material to be welded	-	All Thermo Plastics
4	Welding Surface	mm	50 – 100
5	Control System	-	Microprocessor
6	Generator Data	W	Please Specify
7	Convertor Data	KHz	Please Specify
8	Safety	-	Appropriate safety features to be provided
9	Other Features:	Other Features:	
	Suitable die set for welding of toys, gift articles, etc.,	-	Please specify and quote
10	Essential Spares	-	Please Specify & Quote
11	Machine dimensions (LxWxH)	mtr	Please specify

24. Hot Plate Welding Equipment			
S.No	ITEMS	UNITS	SPECIFICATION
1	Type	--	Portable
2	Material		HDPE, PP, etc.
3	Working temperature	°C	180 to 300°C
4	Time to reach welding temperature	-	Please specify
5	Jigs & fixtures for holding pipes etc.	-	Please specify and quote
6	Safety	-	Appropriate safety features to be provided
7	Essential Machine Spares	-	Please specify and quote
8	Machine dimensions (LxWxH)	mtr	Please specify

25. Air Compressor			
S.No	Items	Units	Specification
1	Working Pressure	Bar	25-30
2	Capacity	CFM	Min. 33& above
3	Receiver tank	Ltr	Min. 500 & above
4	Mounting Type	-	Please specify
5	Connected load	KW	Please specify
6	Machine Dimensions (LxWxH)	-	Please specify
7	Moisture Separator	-	Please specify & Quote
8	Safety	-	Appropriate safety features to be provided like Alarm, pressure relief valve, etc.
9	Essential Machine Spares	-	Please specify and quote

26. Colour Blender			
S. NO.	ITEMS	UNITS	SPECIFICATION
Model :			
1	Container capacity (Min. - Max.)	Kg	100 - 125
2	Rotating speed	rpm	Please specify
3	Vessel/Container		Rotor blade and Vessel should be made out of SS
4	Total Connected Load	kW	Please Specify
5	Safety	-	Appropriate safety features to be provided
6	Machine dimensions (LxWxH)	mtr	Please specify
7	Essential Machine Spares	-	Please specify and quote

27. Microprocessor Controlled Automatic Injection Moulding Machine 50-70T			
Sl. No	Item	Unit	Specication
Injection Unit			
1	Shot Capacity (in GPPS)	g	60 and above
2	SCREW DIAMETER	mm	25-36
3	SCREW L/D RATIO	-	Specify
4	INJECTION PRESSURE	bar	Min. 1600 and above
5	INJECTION Speed	mm/sec	Specify
6	INJECTION RATE	cc/sec	80 and above
7	PLASTICIZING RATE (GPPS)	gm/sec	Specify (higher will be preferred)

8	Max. SCREW SPEED	rpm	Specify
9	Heating Capacity	kw	Specify
Clamping Unit			
10	CLAMP FORCE	ton	50 - 700
11	Mould Opening Stroke	mm	min. 280 and above
12	MAXIMUM DAYLIGHT	mm	Min. 630 and above
13	MINIMUM MOULD HEIGHT	mm	Max.150
14	Maximum Mould Height	mm	Min. 350 and above
15	PLATEN SIZE	mm	Min. 450 x 450 and above
16	DISTANCE BETWEEN TIE ROD	mm	Min. 310 x 310 above
17	EJECTOR STROKE	mm	Minimum 100 (Multi point and Multi Stage) Specify
18	EJECTOR FORCE	ton	Specify
19	MOULD WEIGHT CAPACITY	kg	Specify
20	Hydraulic Multiple core pulling unit	-	specify and quote (Minimum 2 core pulling)
21	Multi stage Air Ejection	-	Specify and Quote (Minimum 2 point)
22	Clamping Mechanism	-	Specify
General			
23	T Slot Platen	-	Specify and Quote (T Slot is Preferred)
24	Latest Square Platen	-	Specify and Quote
25	Latest Technology Injection unit on LM guides	-	Specify and Quote
26	Robot Interface	-	Specify and Quote
27	Hot Runner Interface	-	Specify and Quote (Minimum 4 Zones)
28	Interface for Gas Assisted Injection	-	Specify and Quote
29	Water inlet & outlet manifold for Mould cooling	-	Min. 8/8 Channel
30	Computer connectivity	-	Specify
31	Hopper loader cum drier	-	Specify and Quote for suitable capacity
32	Essential/Standard spares	-	Specify and Quote (Standard Tool Kit, NRV, Thermocouple, Band Heater, Short/Extended Nozzle, SSR, Proximity Switch, Limit Switch, Mould Clamps, T-Nut and Studs, Etc.,)
33	MTC (Oil Type)	-	Specify and Quote
34	Safety	-	Specify the Special safety provisions
35	Motor / Pump Type	-	SERVO
36	Motor load	-	Specify
37	Machine Dimensions (LxWxH)	-	Specify
38	Total connected load	-	Specify
39	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)
40	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)

28. Scrap Grinder - 30-50			
S.No	Items	Units	Specification
1	Output	Kg / Hr	30-50
2	Blade Size	Inch	12-18
3	Blade Material		Specify
4	Motor	HP	5 -8
5	Spare Blades, others		2 Set
7	Feed Opening	mm	Please specify
8	Blower & Cyclone		Please specify

29. Scrap Grinder - 100			
S.No	Items	Units	Specification
1	Output	Kg / Hr	100
2	Blade Size	Inch	24
3	Blade Material		Specify
4	Motor	HP	20 - 25
5	Spare Blades, others		2 Set
6	Others		Able to Cut thick Lumps
7	Feed Opening	mm	600
8	Blower & Cyclone		Please specify

30. Injection Stretch Blow Moulding Machine			
S.No	Items	Units	Specification
1	Bottle Capacity	ml	30 - 2500
2	Injection Capacity	cm3	150 - 160
3	Screw Dia	mm	40 - 50
4	Injection Clamping Force	KN	60 - 80
5	Blow Clamping Force	KN	75 - 110
6	No. of Mould Cavity	-	upto 6
7	Injection Pressure	Kgf / Cm2	Please specify
8	Injection Capacity	cm3	Please specify
9	Injection Speed	mm / sec	Please specify
10	Motor	-	Servo Drive
11	Hopper Loder & Dryer	-	plese specify & quote
12	Mould	-	100 ml mould with 5 or 6 cavity suitable with the machine to be supplied. (product design will be provided)
13	Compressor	-	please specify & quote for the suitable compressor
14	chiller	-	please specify & quote for the suitable chiller
15	Spares	-	spare as required with machine
16	Total connected load	kW	Please specify

31. All Electrical Microprocessor Controlled Automatic Injection Moulding machine 180-200T			
Sl. No	Item	Unit	Specification
	Injection Unit		
1	Shot Capacity (In GPPS)	gms	Min. 200 and above
2	Screw Diameter	mm	40-55
3	Screw L/D Ratio	-	20:1 to 22:1
4	Injection Pressure	bar	Min. 1600
5	Injection Speed	mm/sec	Min. 250
6	Injection Rate	cc/sec	Min. 250
7	Plasticizing Rate (Gpps)	gm/sec	Min. 30
8	Max. SCREW SPEED	rpm	Specify
9	Heating Capacity	kw	Specify
	Clamping Unit		
10	Clamp Force	ton	180-200
11	Mould Opening Stroke	mm	Specify
12	Maximum Daylight	mm	(1000 and above)
13	Minimum Mould Height	mm	max.200
14	Maximum Mould Height	mm	Min. 550 and above
15	Platen Size	mm	min. 750 x 750 and above
16	Distance Between Tie Rod	mm	Min. 500 X 500 and above
17	Ejector Stroke	mm	Minimum 100 (Multi point and Multi Stage) Specify
18	Ejector Force	ton	Specify
19	Mould Weight Capacity	kg	Specify
20	Hydraulic Multiple core pulling unit	-	specify and quote (Minimum 2 core pulling)
21	Multi stage Air Ejection	-	Specify and Quote (Minimum 5 point)
	General		
22	T Slot Platen	-	Specify and Quote (T Slot is Preferred)
23	Latest Square Platen	-	Specify and Quote
24	Latest Technology Injection unit on LM guides	-	Specify and Quote
25	Robot Interface	-	Specify and Quote
27	Hot Runner Inerface	-	Specify and Quote (Minimum 4 Zones)
28	Interface for Gas Assisted Injection	-	Specify and Quote
29	Water inlet & outlet manifold for Mould cooling	-	Min. 10/10 Channel
30	Computer connectivity	-	Specify
31	Hopper loader cum drier	-	Specify and Quote for suitable capacity
32	Essential/Standard spares	-	Specify and Quote (Standard Tool Kit, NRV, Thermocouple, Band Heater, Short/Extended Nozzle, SSR, Proximity Switch, Limit Switch, Mould Clamps, T-Nut and Studs, Etc.,)
33	Suitable MTC (Oil Type)	-	Specify and Quote

34	Safety	-	Specify the Special safety provisions
35	Machine Dimensions (LxWxH)	-	Specify
36	Total connected load	-	Specify
37	Energy meter	-	Specify and Quote
38	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)
39	Bi-metallic Screw Barrel (Optional)	-	Specify and Quote

32. Microprocessor Controlled Automatic Injection Moulding Machine 600-650T			
S.No	Items	Units	Specification
MODEL :			
Injection Unit			
1	Shot Capacity (in GPPS)	Gms	Min. 3500 and above
2	Screw Diameter	mm	100 – 110
3	Screw speed	RPM	150-200
4	Injection Pressure	Kgf / Cm2	1500 and above Multi Stage
5	Injection Rate	Cc / sec	Please specify
Clamping Unit			
7	Clamping Tonnage	Tons	600 – 650T
8	Maximum Daylight	mm	1700 and above
9	opening Stroke	mm	1200 and above
10	Minimum Mould Thickness	mm	400-500 and above
11	Ejector Stroke	mm	Please specify
12	Distance Between Tie Bar	mm x mm	900 x 900 and above
13	Platen Size	mm x mm	Please specify
General			
14	T Slot Platen	-	Specify and Quote (T Slot is Preferred)
15	Latest Square Platen	-	Specify and Quote
16	Latest Technology Injection unit on LM guides	-	Specify and Quote
17	Robot Interface	-	Specify and Quote
18	Hot Runner Inerface	-	Specify and Quote (Minimum 4 Zones)
19	Interface for Gas Assisted Injection	-	Specify and Quote
20	Water inlet & outlet manifold for Mould cooling	-	Min. 12/12 Channel
21	Computer connectivity	-	Specify
22	Hopper loader cum drier	-	Specify and Quote for suitable capacity
23	Essential/Standard spares	-	Specify and Quote (Standard Tool Kit, NRV, Thermocouple, Band Heater, Short/Extended Nozzle, SSR, Proximity Switch, Limit Switch, Mould Clamps, T-Nut and Studs, Etc.,)
24	Suitable MTC (Oil Type)	-	Specify and Quote
25	Safety	-	Specify the Special safety provisions
26	Motor / Pump Type	-	Servo
27	Motor load	-	Specify
28	Machine Dimensions (LxWxH)	-	Specify
29	Total connected load	-	Specify (Lower connected load will be preferred)
30	Energy meter	-	Specify and Quote
30	Max. Power consumption @ full machine capacity	-	Specify (lower power consumption will be preferred)
31	Bi-metallic Screw Barrel (Optional)	-	(Optional) Specify and Quote in addition to standard Screw Barrel