## Bench Top Vertical Rapid Mixer Granulator

#### **Specifications:**

The instrument/equipment should meet following specifications:

- GMP design with 316 SS contact parts easy and quick disassembly
- RPM Meter- for chopper & granulator
- 75gm to 100 gm working capacity
- Digital RPM controller for chopper & granulator
- PLC
- Timer Cutoff
- AM meter
- Main Motor: 100W PMDC
- Chopper Motor: 25W PMDC
- Granulation Blade RPM: Variable 5RPM to 1500RPM
- Chopper Blade RPM: Variable 5RPM to 3000RPM
- The demonstration of the equipment offering actual tender specifications should be mandatory for technical qualification.
- Instrument/ equipment should be provided with at least two year warranty and AMC.
- On sight training will be done by company expert annually for a period of two years.

HOD

## Mini Melt Extruder & Spheronizer- Single Unit (GMP)

#### **Specifications:**

The instrument/equipment should meet following specifications:

#### 1. Extrusion & Melt Extrusion:

- GMP design with contact parts SS316
- Simple extrusion & Melt Extrusion facility
- Temperature: up to 100°C
- Temperature Controller with efficient control
- · Product feed: Manual
- Flexibility (processes and products) for wet granulation as per requirement
- Extrusion capacity: 60-80 grams per batch (product dependent)
- Extrusion screw with 0.5, 1.0, 1.5 and 2.0 mm diameter holes
- Operation and controls: Extrusion by rotating screw thread in a fluted barrel falling into the sheronizer bowl.
- Capable of extruding granules from 0.5 mm to 2.0 mm in diameter
- 0.5 HP 230V AC/Single Phase/50 Hz variable speed drive for extrusion Screw
- Stainless steel control panel
- · Speed controller

#### 2. Spheronizer:

- GMP design with contact parts SS316 and acrylic
- Capacity: 30-80 grams per batch (product dependant)
- · Spheronizer Bowl diameter as per requirement
- 100 mm diameter friction plates
- Friction plates available with groove spaces of 3mm and 6 mm
- Spheronizer discs with square cross-hatched square design, where the processing surface is covered with a grid of truncated pyramids
- Air supply: air pressure of 5 to 6 bar is required
- Product feed: Direct from extrusion die
- Capable of producing 0.6 mm to 3.0 mm spheres
- Variable plate speeds between 600-1800 rpm
- Easy disassembly of process parts
- 0.25 HP 230V AC/Single Phase/50 Hz motor to drive friction plate
- Stainless steel control panel
- · Speed controller
- The demonstration of the equipment offering actual tender specifications should be mandatory for technical qualification.
- Instrument/ equipment should be provided with at least two year warranty and AMC.
- On sight training will be done by company expert annually for a period of two years.

HOD

## Mini Spray Dryer (GMP)

### **Specifications:**

The instrument/equipment should meet following specifications:

### Mini Spray Dryer (GMP)

- Mains voltage-230V/50Hz (220V-240V)
- Power Rating 2000W
- Current Consumption 12A 20 A
- Evaporation Capacity Max. 1.00 Liter/hr H2O
- Aspirator Blower Capacity- 100Nm3/hr or above (Max)
- Temperature of Drying air 350° C ±1° C Accuracy
- Heater Capacity 2.0kW
- Compressed air for spray flow 2-5 bar
- Nozzle Two-fluid, co-current, SS 316L, 0.7mm
- Material of construction Main Stand: SS-316L
- Heating Apparatus Borosilicate Glass
- Dimension L\*W\*H 50 \* 60 \* 100 cm

#### Spraying system

- · Spray nozzle: 02 no.
- Pump: Peristaltic type single head (two)
- Tubing included: Silicone Tubing
- The demonstration of the equipment offering actual tender specifications should be mandatory for technical qualification.
- Instrument/ equipment should be provided with at least two year warranty and AMC.
- On sight training will be done by company expert annually for a period of two years.

HOD

# Rotary Tablet Press (GMP) (Multi tooling D, B, & BB tooling)

#### **Specifications:**

The instrument/equipment should meet following specifications:

- With 3 set Die-Punch 1set D toolling, 1set B tooling, 1set BB tooling (flat or concave or capsule shape)
- Type of Tooling D, B & BB with auto cut-off
- No. of Station 12 Station
- PLC
- Max. Operating pressure 1 to 8 Ton
- Max. Pre. Compression 0.5 to 2 Ton
- Max. Tablet Diameter 16.0 mm
- Max. Depth of fill 17.4 mm
- Output Tablet/Hour 6,000/Hr (Max)
- Turret RPM Min. / Max. 10-30
- Electric Motor 2HP/1440RPM
  Machine Size in mm Preferably 460 (L) x 550 (B)x 920(H) or according to match specification.
- The demonstration of the equipment offering actual tender specifications should be mandatory for technical qualification.
- Instrument/ equipment should be provided with at least two year warranty and AMC.
- On sight training will be done by company expert annually for a period of two years.

HOD

## Table Top Combo Model Fluidized Bed Processor Cum Tablet Auto Coater (GMP)

#### **Specifications:**

The instrument/equipment should meet following specifications:

#### 1. Fluidized Bed Processor (Attachment)

# (Dryer, Granulator and Coater)

· Capacity: 75gm to 300gm

• Air Flow: 2m3/min

• Motor Power: 0.75 KW

Heating capacity:

At 60°C 1.5 kW

At 90°C 2.2 Kw

- 2 Nos. of container Top Spray & Bottom Spray
- Spray nozzle: 02 no.
- Container Volume: 7-9 L

### Oil free compressor

- Type: 100 % Oil-Free (Non-Lubricated)
- Number of Piston: Two
- Piston Displacement Capacity (FAD): 114 ltr/min.(4 cfm)
- Maxi. Working Pressure: 8 Bar (150 psi)
- · Air Receiver Volume: 45 Liters

#### Peristaltic pump

- Pump: Peristaltic type single head
- · Tubing included: Silicone Tubing

#### 2. Lab. Tablet Auto Coater (Attachment)

#### Inlet air related

- Maximum inlet air temperature: 80°C
- Seal with rotating pan: PTFE/silicone seal
- · Variable RPM controller & indicator
- Inlet Temperature controller & indicator
- Outlet Temperature indicator
- All Contact Parts SS316 and Non-Contact Parts SS304 GMP design

#### Perforated pan

- Pan diameter: 7" in.
- · Baffles: 05 Nos.
- Pan RPM range: up to 40rpm
- Maximum batch size: 50gm to 300gm (depending on tablet details)
- · Removable pan: yes

#### Spraying system

- · Spray nozzle: 02 no.
- Pump: Peristaltic type single head (2)
- Tubing included: Silicone Tubing

#### Exhaust air related

Exhaust air volume: 300m3/hr.

- The demonstration of the equipment offering actual tender specifications should be mandatory for technical qualification.
- Instrument/ equipment should be provided with at least two year warranty and AMC.
- On sight training will be done by company expert annually for a period of two years/



#### HOD