



Kerala State Homoeopathic Co-Operative Pharmacy Ltd.
Office:Pathirappally
(sponsored by government of Kerala & aided by govt. of India)

Alappuzha, India
Pin-688 521

Phone : 477 2258012
:477 2258665

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Website : www.homcokerala.com

Email : homcokerala@gmail.com

Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	:	
Contact Person	:	
Address	:	
Contact Details	:	
Department	:	<i>Tablet- Second floor</i>
Equipment and Code No.	:	<i>Rapid Mixer Granulator with Built in Co-mill (RMG)</i>
Ref. No.	:	
Date	:	
Enclosures	:	
Quantity	:	1 Nos



CONSULTANT : M/S. KNACK TECHNOCRATS

111, AVINASH, SEVEN BUNGALOWS, JAY PRAKASH ROAD, ANDHERI (W), MUMBAI – 400 053
TEL. NO. : 022-2636 1629, Email : infoknack@gmail.com



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RAPID MIXER GRANULATOR (RMG) With Built in Co-mill

ANNEXURE – I : BASIC DETAILS OF THE MACHINE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Machine	: Rapid Mixer Granulator (RMG) with built in Co-mill
Model	: *
Working principal	: *
Capacity	: Gross : 600 litres* : Working : 420 litres
Maximum Working Capacity	: 420 Ltrs (70%)
Minimum Working Capacity	: 180 Ltrs (30%)
Bulk density	: 0.5 Gm/Cc * (Considered for rated capacity)
PLC panel	: Colour monitor
WIP system	: With high pressure pump, nozzles and interconnecting piping
Co mill	: In built attachment 5 HP motor
Binder spray system	: Optional (With peristaltic pump and spray nozzle)
Vacuum transfer system	: Powder transfer from IPC to RMG by vacuum transfer system

*** To be specified by the supplier**



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ANNEXURE – II : cGMP FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
MOC	: Contact Parts : SS 316 : Non-Contact Parts : SS 304 : Any MS parts : SS 304 cladded Gasket / Seal / 'O' ring : Food grade
Working Area Environment	: Temperature : NMT 24±2 °C : Relative Humidity : NMT 65±5 %
Finish	: Internal : Mirror Finish : External : Matt Finish
The equipment should be smooth finished without any sharp edges and crevices	
All welds should be ground finished and properly passivated.	
Any lubricant, used in the equipment must be of food grade and non-toxic.	
Specification of lubricants used	: *

*** To be specified by the supplier**



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ANNEXURE – III : PROCESS CONTROL FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Variation in speed of the machine	: By VFD
Machine Operation Control	: By Programmable Logic Controller (PLC)
Machine Operational Interface	: By Pre-programmed HMI screen with function keys.
Control Panel	: The electrical components can be locate on electrical control panel on RHS / LHS of the machine and operating console should be an HMI (Black and White) with function keys as per layout and convenient of operator.
Safety interlocks to be provided to discharge valve and top lid with limit switches.	
Process timer to be provided	
Machine should not start or instantly stop, if :	
a) If top lid is open	
b) If the air pressure is less than the set pressure.	
c) If discharge valve is open for cleaning.	
d) If motors over-load.	
e) Low voltage	



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ANNEXURE – IV : OPERATIONAL FEATURES

DESCRIPTION

(To be specified by the supplier, if any variation)

Specification for major components :

Mixing Bowl:

Cylindrical Mixing bowl with large diameter and flat base.

Top portion of the bowl to be conical in shape.

MOC : SS 316 with internal mirror finish and external matt finish

Top Lid:

SS 316 cover with ring silicon gasket.

To be pneumatically open able type.

To consist of view glass, charging hole with safety grill and lid, air vent with filter and other connections like WIP nozzle.

Sensors to be provided for safety interlocks.

Mixing Blade:

To consist of 3 nos. of SS 316 blades for intense mixing. The angels of blades should be such that it lifts and pushes the material.

Mixing blade to be mounted on main shaft with separate bearing housing.

The upper portion of the housing to consist of Teflon seal along with Air purging facility.

Lower portion of the housing to contain bearing along with oil seals for leak proof purpose.

Bearing Housing:

Bearing housing of the main shaft to be connected to gearbox, by means of heavy duty chain/belt coupling.

Chopper with 4 nos. blade assembly to consist of a separate bearing housing directly coupled to motor by means of flexible coupling with teflon impregnated gland packing and air seals



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DESCRIPTION

(To be specified by the supplier, if any variation)

Granulator:

High speed Granulator to be inserted horizontally through the wall of the bowl, to assist blending of powder and to break the lumps of products in granules.

The granulator shaft with bearing housing, Teflon and air seal prevent any material entering inside granulator assembly.

Co Mill Housing - MOC SS 316

To consist of rotor shaft driven coupled with motor.

Conical perforated screens to be provided.

Unit to be in built type so that discharge material passes through this only.

Discharge Valve:

Side discharge outlet pneumatically operated is to be exactly matching the profile of the intervene bowl with perfect sealing arrangement.

Height to suite FBD (Fluid Bed Dryer) bowl.

Pneumatic cylinder housing to be of swivel type arrangement.

Safety interlocks to be provided.

Machine Base:

Rigid base frame duly epoxy painted MS channel frame with SS cladding.

Machine base to accommodate the mixing bowl.

Motor and reduction gear box to be housed inside the frame.

Machine base to be enclosed with removable flush type SS covers.

Anti Vibration mounts.

Pneumatic System:

Air filter and air water separator to be provided.

Pressure regulator to be provided to regulate the desired air pressure.



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DESCRIPTION

(To be specified by the supplier, if any variation)

Air lubricator to lubricate solenoid valve and pneumatic cylinders to be provided

Platform with Steps / Ladder:

SS 304 step ladder to have safety guard rails.

3 mm SS 304 thick chequered sheet to be provided on the top of platform and ladder.

Pressure Switch:

A pressure switch in corporate in pneumatic circuit to ensure that unless required minimum air pressure is available in the system the machine cannot be started.

And once the machine starts and if drop below pre-set the value the machine stops immediately.

Spray System (Optional):

Spraying system along with peristaltic pump of 20 LPM to be provided.

Spray nozzle to be provided.

*** To be specified by the supplier**



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DESCRIPTION

(To be specified by the supplier, if any variation)

Vacuum Transfer System

Purpose	:	Powder transfer from IPC to RMG by vacuum transfer system
Capacity	:	750-1000 kg/hr. (Product transfer rate)
Bulk Density	:	0.5 – 0.8 gm/cc approximate
Vacuum Receiver	:	SS 316 receiver & pump and control panel
Vacuum Pump Capacity	:	*150m ³ /hr at 300mm of HG and 7.5HP, 1440 rpm TEFC motor.
Filter Media	:	PC Satin Filter of 5micron

Full opening Butterfly valve with actuators, Automatic level sensor, Automatic pulse-jet.

Sample powder can be provided for trail run.

- Suction to be through SS suction nozzle with flexible transparent PVC non toxic pipe
- Discharge valve to consist of vacuum receiver with 5 micron filter bag with pulse jet cleaning arrangement.
- TC connections to be provided for bin.
- Vacuum receiver to be of cylindrical type vessel with conical bottom and top open lid. SS Perforated plate to be provided.
- Top lid to be of dished type with nozzle on it for air release and vacuum suction.
- Bottom outlet to be provided at the bottom of receiver with TC connection and bottom closure lid along with clamp and gasket.
- Teflon coated filter bag to be provided.
- Twin lobe vacuum pump to be provided.
- Vacuum pump: * Twin lobe vacuum pump, capacity 150 m³/hr at 300 mm of HG and 7.5 HP motor, 1440 rpm TEFC motor.

!! (Requirement needed for the smooth transferring without choking).



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ANNEXURE – V : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	415 V
RPM	:	*
Main Motor Details	:	*
Granulating drive details	:	
Gear Box Details	:	*
VFD Details	:	*
Programmable Logic Controller	:	*
Major Cabling details		
For Main supply (In client's scope)	:	*
For Main drive motor	:	*
Cable length with machine	:	*
<i>Any other detail not mentioned above, also to be included.</i>		

*** To be specified by the supplier**



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- ❖ Wiring between Panel and the Machine is in the Scope of Vendor. The exact measurements shall be taken by visiting the site.
- ❖ The Incomer to the Operating Panel shall be provided by HOMCO, however any Cable Trays or SS 304 Conduits required for the same shall be provided by the Vendor.
- ❖ Cable routing from Operating Panel to the Machine shall be done as per cGMP i.e. routing through Cable Trays outside Clean Room Areas and SS 304 Conduits inside Clean Room Areas.
- ❖ All the Component Makes should match the Approved Makes list provided. Any deviation from this should be documented and communicated to HOMCO.
- ❖ All Calibration Certificates are to be produced during Installation of Machine, without which the Installation is deemed incomplete. All the Certificates should be Traceable to National / International Standards.
- ❖ The Validity of Calibration shall be minimum 9 months and maximum 12 months from the date of Installation.
- ❖ All the Signal Cables should be shielded to avoid interference.
- ❖ Complete Earthing of Equipment.
- ❖ Complete covering of Electrical Cables and Other Connections.



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ANNEXURE – VI : SAFETY FEATURES

DESCRIPTION

(To be specified by the supplier, if any variation)

Chopper motor interlocked with main motor.

Fast speed of Impeller motor interlocked with slow speed.

Interlocking of discharge port with limit switch.

The machine to be provided with motor overload safety relay.

In the event of machine malfunction or stoppage of utilities, the unit must contain all necessary protection devices to ensure that machine and product remain in safe condition.

Machine settings should not get disturbed due to power failure. Machine should not restart without human intervention and should start from the step it's stopped.

Machine should indicate fault through audio / visual signal with details on Control panel/PLC (Failure mode detection)

An easily accessible emergency stop to be provided on main control panel door.

Lubricant should not come in product contact.

Wherever possible, warning symbols should be provided.

Electrical wiring must be concealed.

All the moving parts of the machine to be totally enclosed.

Noise level below 75 DB at the distance of 1 mtr from the equipment.

Proper Earthing of the equipment.



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ANNEXURE – VII : UTILITY REQUIREMENT

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	*
Water	:	*
Total power consumption	:	*
Any other		*

*** To be specified by the supplier, if applicable**



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ANNEXURE – VIII : CLEANING TECHNIQUE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Mode of machine cleaning	: *
All contact parts should be easily dismantled and cleanable.	
Easy washing and cleaning facility should be available (WIP) and water consumption.	
Arrangement of sprinkle, nozzle for easy cleaning.	
Drain points: Please specify the pipe size and location.	
All bolt nuts on the exterior parts will be with cap head or cap nuts.	

*** To be specified by the supplier**



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ANNEXURE – IX : PHYSICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Dimension (In mm)	:	*
Net Weight (In Kgs.)	:	*
Type of Packing	:	*
Case Dimension (In mm)	:	*
Gross Weight (In Kgs.)	:	*
Foundation details	:	* (if applicable)

*** To be specified by the supplier**



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ANNEXURE - X : LIST OF ANCILLARY / ACCESSORIES / OPTIONAL ITEMS

DESCRIPTION

(To be specified by the supplier, if any variation)

- Recommended Spares
- Optional items

Details of Bought out components to be specified.

Any other ancillary or accessories or optional items not mentioned above also to be quoted.



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ANNEXURE – XI : TRAINING REQUIREMENT

- Training to all concern of M/s. HOMCO, Kerala for Installation, Operation, Maintenance and Cleaning of Fluid Bed Dryer shall be provided by vendor and training record will be documented.
- Vendor shall support client in execution of all the Qualification Phases.

ANNEXURE – XII : APPROVED MAKES

PLC/HMI: Mitsubishi / Siemens / Allen-bradley	:	*
Motors: Crompton Greaves / Siemens / Bharat Bijlee	:	*
Gear Box: Bonfiglioli / Elecon / Shanti	:	
Pressure Transmitter: Siemens / Wika	:	*
VFD: Yaskawa / ABB / Siemens / Danfoss / Mitsubishi	:	*
MCB: Siemens / ABB	:	*
Air Filter Regulator/Solenoid Valve: Festo / Janitics	:	*
Pressure Gauges: Warea / Forbes Marshall	:	*
Cables: Finolex / Polycab	:	*

*** To be specified by the supplier**



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ANNEXURE – XIII : DOCUMENTATION

List of all Documents to be supplied along with equipment [AS APPLICABLE]

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	
2	SAT/FAT procedures	2 sets	
3	Operation manual	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings	2 sets	
7	List of instruments	2 sets	
8	Calibration certificates	2 sets	
9	Warranty / Guarantee	2 sets	
10	List of all components with referencing	2 sets	
11	Civil foundation drawings	2 sets	
12	Pre installation requirements	2 sets	
13	Installation requirements	2 sets	
14	Installation manual	2 sets	
15	Technical literature, data sheets and equipment catalogues	2 sets	
16	DQ, IQ, PQ documents.	2 sets	
17	Calibration Report of all sensors, controllers, PLC, transmitters, indicators etc.	2 sets	
18	Test Certificates of all material of construction	2 sets	
19	Test Certificates of the software used in machine control / monitoring system.	2 sets	



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ANNEXURE – XIV : TERMS AND CONDITIONS

Delivery Period	:	*
Payment Terms	:	*
Packaging and Forwarding	:	*
Excise / Taxes / Octroi / GST	:	*
Material for Trial	:	*
Installation and Commissioning	:	*
Submission of documents and drawings		
Response to URS and submission of quotation	:	Within 1 week
Submission of detail functional design specification and schematic drawings	:	Within a week after order finalization
Submission of FAT / SAT specification	:	2 weeks before FAT
Submission of DQ, IQ, OQ, PQ documents	:	With equipment delivery
Final drawings / diagrams	:	Within one week of receiving PO
The supplier should notify customer 2 weeks in advance of the beginning of FAT		
Catalogue, Equipment drawing, List of clients and year of establishment to be submitted alongwith quotation.		
<i>Any other terms, not mentioned above, also to be specified.</i>		

*** To be specified by the supplier**



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ANNEXURE – XV : ABBREVIATION

1.	URS	:	User Requirement Specification.
2.	HOMCO	:	Kerala State Homeopathic Co-operative Pharmacy Ltd.
3.	DQ	:	Design Qualification
4.	IQ	:	Installation Qualification
5.	OQ	:	Operational Qualification
6.	PQ	:	Performance Qualification
7.	SS	:	Stainless Steel
8.	RHS	:	Right Hand Side
9.	MOC	:	Material of Construction
10.	KW	:	Kilo Watt
11.	HP	:	Horse Power
12.	RPM	:	Rotation Per Minute
13.	FLP	:	Flame Proof
14.	cGMP	:	Current Good Manufacturing Practices
15.	O&M	:	Operation and Maintenance
16.	GA	:	General Arrangement
17.	SLD	:	Single Line Diagram
18.	HOD	:	Head of Department
19.	QA	:	Quality Analysis
20.	MRP	:	Maximum Retail Price
21.	NMT	:	Not more than
22.	VFD	:	Variable frequency drive
23.	PLC	:	Programmable Logic Controller
24.	RMG	:	Rapid Mixer Granulator

Any other details, not mentioned in Annexure I to XIV, to be specified in the quotation/specification by the vendor.



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