



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

Fax : 0477 2258012

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>Octagonal Blender with Vacuum Convey System</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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OCTAGONAL BLENDER WITH VACUUM CONVEY SYSTEM

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Type	:	*
Model	:	*
Working Principle	:	Rotary
Capacity (In Kgs.)	:	Working Capacity: 840 liters. Gross Capacity : 1200 liters.
Bulk density	:	*
Vacuum Convey System		
Purpose	:	For conveying powder to blender
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, 1440rpm TEFC motor.
Filter Media	:	PC Satin Filter of 5 micron
Full opening Butterfly valve with actuators, Automatic level sensor, Automatic pulse-jet		
# Sample powder can be provided for trail run.		



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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 : 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 of smooth finish without any sharp edges and crevices	

*** 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)	
Direction of motion of the Blender	: Rotary / As per standard design *
Variation in speed of the machine	: By Variable Frequency Drive
Machine operation Control	: By Programmable Logic Controller (PLC)
Control Panel	: The electrical panel can be located on RHS/LHS of the machine with ON/OFF/Inch and Process Timer as per the layout and easy for operation at site.

* To be specified by the supplier



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ANNEXURE - IV : OPERATIONAL FEATURES

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Shell and Cone	:	5 mm thick SS 316, and the body to be stiffened by SS 304 channel to withstand vacuum.
Support	:	Blender to be supported on both sides with "A" shaped SS square pipe structure with plumber blocks. Entire gear drives to be enclosed in SS structure with suitable covers.
Openings	:	One side: 12" dia Butterfly valve with both sides operating handle.
	:	Other side: Rectangular door with silicon gasket & eye bolts.
Baffles	:	SS detachable type baffles to be provided inside the blender for effective blending.
Safety Guard	:	SS 304 pipe guard with proximity switch
Charging of material	:	Mode: *
	:	Height: *
Discharge of material	:	Mode: *
	:	Height: *
Details of Butterfly valve (Pneumatic)	:	*
Bottom Valve	:	TC connection with provision for WIP

*** To be specified by the supplier**



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DESCRIPTION

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

Vacuum Convey System

- Powder from FBD bowl through Co-mill to Blender
- 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. Provision for WIP.
- 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).

*** To be specified by the supplier**



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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	:	*
Motor Details	:	*
Gear Box Details	:	*
VFD Details	:	*
Programmable Logic Controller	:	*
Total power consumption	:	*
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>		



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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)

Safety of machine operation is of utmost importance.

To ensure safety, SS guards to be provided with proximity switches.

The machine to be provided with motor overload safety relay.

After completion of blending time, blender should stop by decelerating its speed, to avoid sudden mechanical jerk.

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.

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.

Lubricant should not come in product contact.

Wherever possible, warning symbols should be provided.

Electrical wiring must be concealed

Proposer earthing should be provided

Noise level: Below 75 db at a distance of 1 Mtr from the Equipment.

*** To be specified by the supplier**



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ANNEXURE - VII : UTILITY REQUIREMENT

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	*
Water	:	*
Chilled Water	:	*
Hot Water	:	*
Nitrogen	:	*
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 part should be easily dismountable and cleanable.	
If CIP is considered, please provide CIP details and water consumption.	
Easy washing and cleaning facility should be available.	
All bolts, nuts on the exterior part of equipment will be with cap head or cap nut.	
Cleaning of external product non-contact part shall be done manually.	

*** 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)	:	*
Floor Space	:	*
Net Weight (In Kgs.)	:	*
Type of Packing	:	*
Case Dimension (In mm)	:	*
Gross Weight (In Kgs.)	:	*
Foundation details	:	*

*** 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)

*Details and scope to be specified by the supplier for the following. **

- Variable Frequency Drive
- Essential Spares (For 1 year) along with list.
- Vacuum Transfer system for granule charging
- IPC container for granule charging
- Drainage accessories to connect with Drain
- Ladder for operator , if required
- Optional item
- Flame Proof Motor

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

*** To be specified by the supplier**



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ANNEXURE - XI : TRAINING REQUIREMENT

- Training to all concern of HOMCO, Kerala for Installation, Operation, Maintenance and Cleaning of Octagonal Blender should 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 / FORMAT	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 IQ AND OQ documents	:	With equipment delivery
Drawings / diagrams	:	With 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 Goods 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

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



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