



HINDUSTAN
ELECTROMAGNETICS

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Regd Office/ Works:

Plot No 468, Kusgaon Khind Road, Kusgaon, Khed shivapur, Tal-Bhor, Dist- Pune-412205

Ph – 7387196827

GST No. 27AHMPJ0342H1ZH

Doc Ref.: HEM /107/21/22

Date: 17/01/22

To,

Director,
Apegaon Agro Processors FPC

Dear Sir,

As per your requirement following is best offer for HMD 20 machine.

1) Freeze dryer system (HSN 84193100) Rs. 52, 00, 000/-

Total - Rs. 52, 00, 000/-
GST 18% - Rs. 9, 36, 000 /-

Total Cost - Rs. 61, 36, 000/-
Amount in Words: Sixty-One Lakh Thirty-Six Thousand Only

Transport - at actual

System will consist of

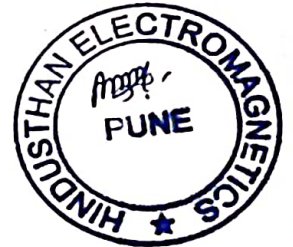
- 1) Freeze dryer- 1 units of 200 kg per batch machine.
- 2) Blast Freezer- 1 units of 200 kg loading capacity.
- 3) Cooling towers – 1 nos
- 4) 52 + 52 = 104 nos SS 304 trays.
- 5) Installation, commissioning and training.
- 6) 1 year warranty from the date of dispatch.

Exclusions:

- 1) Colling Tower Piping
- 2) Mains cable to Panels
- 3) Colling Tower cables
- 4) Thermic Fluid
- 5) Air compressor
- 6) Defrost and Drain piping
- 7) Defrost and Drain pumps
- 8) Earthing's ETC

Technical specifications of Food Freeze –Dryer:

- | | |
|------------------------------|----------------------|
| 1. Freeze Drying Capacity | 100 TO 200 kg/ Batch |
| 2. Batch Time | 12 TO 24 Hr |
| 3. Usable freeze-drying area | 20 M2. |
| 4. Power connection | 415 V 3 Ph |





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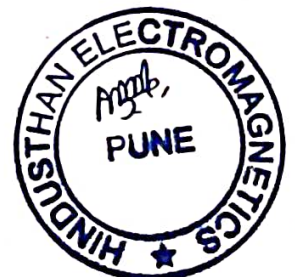
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5. Connection load for machine	28 Kw
6. Connection Load for Heater	18 Kw
7. Machine dimension	5000mm * 4000 mm * 2500 mm
8. Tray size	530 * 730 mm
9. Load per tray	4 kg
10. Number of trays	52 + 52
11. Total Usable area	20 Square Meter
12. Tray material	SS 304
13. Chamber material	SS 304
14. Condenser piping material	SS 304
15. Condenser Capacity	200 kg
16. Heater plate	Anodized aluminum
17. Refrigeration compressor	Bitzer make
18. Vacuum pump	Busch
19. Roots pump	Busch
20. Heater motor	Stainless steel high temperature seal motors 2 HP
21. Cooling tower	FRP counter flow with fiber body 30 TR
22. Heater body and steam coils	SS304 seam less pipes
23. Expansion valve	Danfoss make
24. HPLP protector	Danfoss make
25. Liquid oil separator	Danfoss make
26. Oil pressure protector	Danfoss Make
27. Refrigeration Condenser	Bitzer make water cooled
28. Solenoid valve, sight glass	Danfoss make
29. PIC	Fuji electric WSZ 24MC series
30. Touch screen HMI	Fuji electric VSFT touch soft series
31. DATA logging	USB storage device
32. Power monitoring	Adept make digital power meter
33. Single phase preventer	Minilec make.
34. Cooling tower fan motor	Hindustan motors make 1 HP
35. Vacuum atm to 2 mbar	15 min. product temperature should be less than -15 deg C.
36. working vacuum	1 to 0.1 mbar
37. Refrigeration temperature	-32 to – 55 deg C
38. Loading capacity	Tested on 80 % water

Technical specifications of Blast Freezer:

1. Blasting Capacity	200 kg/ batch
2. Blasting Time	8 Hr.
3. Usable Blasting area	20 M2
4. Power connection	415 V 3 Ph
5. Connection load	6 KVA
6. Evaporator Coil	Bluecold Make. 1 nos





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7. Refrigeration Compressor	Bitzer make –1 nos
8. Refrigeration Condenser	Bitzer Make - water cooled Condenser
9. Chamber dimension	2000mm *2000 mm * 2000 mm, thk100 mm
10. Material	100 mm puff insulation.
11. Density	40 kg/M3
12. Number of Trolleys	1 nos
13. Temperature controller	Sub-Zero
14. Blasting Temperature	-25 to -35 Deg C
15. Cooling tower	NA
16. Expansion valve	Danfoss make - TES 5
17. HPLP protector	Danfoss make
18. Oil separator	Henry

Other Terms & Condition of supply:

- 1) Taxes, Duties, Octroi or any other leviable duty: GST 18 %.
- 2) Installation charges: Included in price.
- 3) Electrical, Railing and piping: Should be provided by you at time of commissioning.
- 4) Delivery: 120 days from the date of receipt of confirm purchase order along with advance payment & settlement of all technical & commercial formalities.
- 5) Payment terms: 50% advance along with purchase order. 20% within one month, 30% before dispatch, With GST 18 % and transport cost.
- 6) Validity of quotation: This offer is valid for 30 days from the receipt of these papers at your end. After which we reserve the right to change the prices according to the market fluctuations with respect to wages & cost of material.
- 7) Warranty: 1 year warranty from date of dispatch for manufacturing defects only. Defective parts will be replaced if damaged under normal operating conditions.
- 8) All disputes arising out of this offer shall be subjected to Pune Jurisdiction.

Technical Reservations:

We reserve the right to change the design, parameters, units of systems & subsystems offered in the quotation. However we assure you that in doing so the sole objective shall be to improve the process & overall efficiency of the plant.

We sincerely hope that the above offer is in line with your requirement & you will find working with us a pleasure.

Thanking You,
Yours truly,
Hindustan Electromagnetics, Pune
Atul Jangle (7387196827)

