



P.G. DEPARTMENT OF ZOOLOGY
MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY
SRIRAM CHANDRA VIHAR, TAKATPUR, BARIPADA,
MAYURBHANJ-757003, ODISHA



TENDER NOTICE

N0: CPCI/Zool/05

Date: 14.09.2022

Sealed quotations are invited from reputed & registered firms for supply of **Laboratory Spray Dryer** to this University. The Quotations should reach to the Principal Investigator on or before 17.10.2022 by 5:00 P.M. and will be opened by the committee on 18.10.2022 at 11:30 A.M. The parties have to submit the details of brand/ make / specifications mentioned in quotations to judge the quality. The selected tenderers should ensure delivery of materials in accordance with the specifications within 15 (Fifteen) days from the date of issue of supply order to the University at their own cost. The materials which would not conform to approved specifications would be rejected, subject to replacement by the supplier. The intending supplier should furnish the attested copies of the Registration Certificate, valid GSTIN, and Income Tax & Up-to date GSTIN clearance authority reserves the right to accept or reject reason thereof.

SPECIFICATIONS FOR LABORATORY SPRAY DRYER

Type	Plug in system Table Top.
Suitable for	Aqueous / Aqueous + Solvents /Solvents Feeds
Evaporation rate	200ml - 1000 ml / hr water evaporation
Temp. range	Ambient to 280°C, accuracy $\pm 1^\circ\text{C}$ in steps of 0.1°C
Temp. sensors	03 Nos., (inlet / outlet /safety sensors)
Power Supply	220-240V AC 50 Hz single phase Max. 15A
Heater Capacity	3-4.5 KW
Aspirator	0.5 HP Motor, High efficiency Aspirator
Air pressure Regulator	0 to 10 kg/cm ²
Feed pump:	Peristaltic pump with variable flow rate. Feed pump Calibration (in-built) &Setting in ml/min with reverse function. 1250 ml/hr or more
MOC of Drying chamber & Cone	The chamber will be made of Borosilicate Glass or SS 316
Cyclone separator & Receiver	High efficiency cyclone for powder collection will be made of Borosilicate Glass OR SS 316. Feature: SS Cyclone separator Openable Type with triclowner clamp /



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	Threaded arrangement for easy cleaning.
Connecting tubing	PP Piping
Bag Filter	For collection of fines from the exhaust air. The filter should be housed in a Threaded Borosilicate enclosure to avoid any leakages. Washable PP Bag to be provided as bag filter.
Tube of peristaltic Pump & nozzle of rings & Gasket of the system	All Food grade Teflon/ Pure silicon
Dimensions in mm (H x W x D)	1250 x 500 x 600 (mm)
Weight	70-99 kg
Control system	The system should be fully controlled (heater, feed flow rate, aspirator rate, de-blocking strokes, etc.) through PID Controller / In-built controller / VFD. Mains supply to the system through ELCB / MCB

Sd/- (Dr G. Mohanty)
P.I. Collaborative Project, DST, Govt. of Odisha