

Letter No. - SPG/2021/003383/101

Dated: August 19, 2025

To,

Email:

Phone:

Sub: Inviting quotation for Dual Powder Feeder

Dear Sir/Madam,

The Institute intends to procure a **dual powder feeder** (as per the specification provided in Annexure-I) for one of its sponsored research projects sponsored by ANRF. You are invited to participate in this bidding process and submit your quotation for the supply and installation of the complete set-up with the following terms and conditions.

You may kindly give your lowest offer on the following terms and conditions by **1st September 2025**.

- 1) Interested Firms/Parties should submit documentary proof (photocopy) of the following:
 - a) Valid Registration Certificate of the firm.
 - b) GSTIN and PAN Number.
 - c) Experience in supplying the similar kind of items to Government/Educational Institutions/Reputed Organizations.
 - d) A certificate from the OEM (Original Equipment Manufacturer) confirming that the bidder is an authorized dealer/distributor for the product or is authorized to submit a quotation for the said product in response to this invitation.
- 2) The rates quoted should be **FOR Destination (i.e., delivered via electronic means or license transfer)** inclusive of all applicable taxes/statutory levies (GST or any other applicable central/state government taxes). No additional charges shall be entertained by PDPM IITDM Jabalpur.
- 3) The product shall come with a **valid support contract** for the period mentioned in the specifications (refer Annexure-I).
- 4) The supplier must ensure **technical support** (email/phone/online) for installation, activation, and operation issues for a **minimum of 3 years** from the date of installation.

- 5) Sealed quotation should reach on or before **3.00PM, 01/09/2025**, to the **AR (Purchase), PDPM-IIITDM Jabalpur, Dumna Airport Road, Mehgawan, Jabalpur-482005**. Alternatively, duly signed quotations on the letter head of the firm can be submitted through email also at the following email addresses: **arpurchase@iiitdmj.ac.in** and manu@iiitdmj.ac.in within the same deadline of **3.00PM, 01/09/2025**.
- 6) The Institute reserves the right to reject any or all bids without specifying any reasons thereof.
- 7) For any technical queries regarding the indented item or its specification or compatibility, please contact the undersigned at: manu@iiitdmj.ac.in.
- 8) Any delay or failure in delivering the items due to administrative or technical issues will be the responsibility of the supplier.
- 9) All disputes will be subject to jurisdiction in Jabalpur, Madhya Pradesh.

Thanking you,



(Dr. Manu Srivastava)
Project Investigator

Technical Specifications for Powder Feeder

1. Control:

- a. M-code based control.
- b. PC-based software (Windows OS) for operation.
- c. PC-based driver library (Python/C++ support).
- d. M-code based macro for CNC integration.

2. Hopper/Canister Capacity:

- a. Dual canisters: **700 cc × 2**.
- b. Dimension: **70 mm (ID) × 95 mm (OD) × 177 mm (H)** each.
- c. Delivery range: **0.3 kg – 8 kg per canister**.

3. Powder Compatibility:

- a. Standard powder size: **~80 µm**.
- b. Suitable for metallic and ceramic powders within general spray/AM particle size ranges.

4. Carrier Gas:

- a. Flow rate: **0–15 LPM**.
- b. Supply pressure: Value Falls within the range of **2.5 bar to 9 bar**.

5. Drive & Speed Control:

- a. Variable frequency drive for speed control.
- b. RPM: **≥ 10 RPM (expandable)**.
- c. Digital/Disc RPM display.

6. Indicators & Safety:

- a. Pressure switch for low carrier pressure signal.
- b. Digital I/Os for fault communication and remote operation.
- c. Calibrated flow tube (SCFH & SLPM).

7. Dimensions & Weight:

- a. Net weight: **45 kg (approx.)**.

Mmm

8. Power & Electrical:

- a. Power supply: **220 V AC, Single Phase.**
- b. Power consumption: **1 HP.**

Clamping/installation on current machine is required. Preference will be given for set up with customized nozzle for manual operation.

Warranty and after sales support of three years.



Dr Manu Srivastava

PI; SPG/2021/003383