

Tender Notice
for
SINGLE SCREW EXTRUDER

FOR
KASHTAKARI PANCHAYAT

INTRODUCTION

Kashtakari Panchayat was registered in 2010 primarily to support waste pickers and their families and their collectives. The support ranges from direct financial assistance to indirect support in the form of training, facilitation and research. KP would best be described as a bridge, connecting people to each other, connecting ideas to people and people to resources to implement those ideas. It facilitates and celebrates the interaction between one section of humanity and another, to create a better world for all.

PROJECT DESCRIPTION

The European Union, SWITCH-Asia Project is a multi-year program that aims to increase the incomes of waste pickers through vertical integration of the plastic recycling chain, specifically through the creation of value-added products such as 3D printing filament from HDPE and PP plastic waste. The project is based in **Pune, Maharashtra**.

Over the 4-year project duration, 4 decentralized plastic waste supply chains will be set up for creating value added products from HDPE and PP plastic waste. These supply chains will be owned and operated by waste pickers. This network is expected to incorporate over 1,000 informal waste pickers. The supply chains will consist of scrap shops which buy sorted recyclable waste from waste pickers, and processing units which will buy HDPE and PP plastic from the scrap shops for processing into intermediate products such as plastic flakes and high-value products such as 3D printing filament. Through this process, there will be value creation for HDPE and PP material, which will be passed on to the waste pickers through an increase in the purchase rate for this plastic as well as through distribution of the profits from the processing activity. High-value products such as 3D printing filament could increase the value of HDPE by more than ten-fold. The high-value products like 3D printing filament will be certified for quality and will be produced in line with fair-trade principles.

EQUIPMENT / SYSTEM TECHNICAL DESCRIPTION AND SCOPE

MAIN EXTRUDER:

Fabrication: Main frame of the machine shall be of a compact, robust construction.
Material to be used of MS Material & plate
Material to be extruded: HDPE and PP (rigid)
Screw: 100 mm Screw Diameter, designed and manufactured by EN41 material.
Barrel: Barrel manufactured from High Grade Steel alloy (EN41B).
Screw Motor: Vendor to Confirm (Make: ABB / Crompton; Standard IE2)
Production Capacity: 130 - 150 Kg / Hr.
Gearbox: Make Omex Gearbox / Premium Make. HEAVY Duty Helical Gear Box.
Hopper: 150 Kg batch capacity manual hopper made of steel fabricated with glass window.
Barrel Heating: 5 Zone on barrel, attached with ceramic heaters and thermocouples.
Temperature Control: Temperature of each zone to be controlled by PID instrument with auto adjustment.
Screen Changer: Hydraulic Screen Changer
Power pack with 3HP Crompton Motor.

DIE HEAD:

Fabrication: Vendor to confirm finish of Die Head.
Design: EN-24B duly hard chromed material to be used for designed die head.

WATER TANK:

Fabrication: SS 304 Grade of 3 mm Thickness.
L x W x H: Approx. 8' x 12" x 12"
Drain: Inlet and Outlet drain to be provided with Ball Valves. (Ball Valve Make Unison / L&T / IPC / Equivalent)

CUTTER:

Cutter Blade Size : Vendor to Confirm
Cutter Motor: Vendor to Confirm
Vendor to specify Number of Blades, MOC of Blades in the Offer.

MIXER MACHINE:

- Size: **Vendor to Confirm**
- Material: SS
- **Vendor to Confirm KW Rating.** (Make: Crompton/ABB IE2 Standard Motor.)
- Motor starter panel with Over load relay in Vendor Scope.
- Capacity: 150 kg/hr

WASHER:

- As per the requirement
- Turbo Washer with Conveyer with 20 HP motor with panel
- Heavy Duty Structure

DRYER MACHINE:

- Single Drum Dryer Machine.
- With Sweeper Brush Mechanism to Clear Drum Holes
- Power Consumption: 7.5 KW (10HP)
- Output material 99% Dry

ELECTRICAL CONTROL PANEL:

Scope of supply includes Fabricated control panel with Controller, Ampere/Volt meter display, power load relay, thermocouple sensors and all wiring.

Scope:

1. Temperature Controllers
2. Power on / off indicators.
3. Switchgears
4. Emergency Stop Button
5. Contactors, etc.

Electrical Components Make:

- Panel Fabrication: MS 16 SWG with Powder Coating.
- MCB: Siemens/ SCHNEIDER / L&T / Equivalent
- Contactors: Siemens / SCHNEIDER / L&T / Equivalent
- Relay: Siemens / SCHNEIDER / L&T / Equivalent
- Connector: Phoenix / Equivalent
- Temperature Controller: MULTISPAN / SELEC / PPI // Equivalent

TRAINING

- The Supplier shall provide technical training on Operation, Maintenance and troubleshooting of the Equipment / System to the operators and the Supervisory staff

GUARANTEE

- The unit shall be guaranteed for trouble free operation for a period of **12 months** from the date of commissioning

CLARIFICATION OF TENDER DOCUMENT

- A prospective bidder requiring any clarification of the Tender Document may communicate to the contact person given in this notice inviting tender. The contact person will respond to any request for clarification for the Tender Document received not later than 5 working days prior to the last date for the receipt of bids.
- Amendment of Tender document: At any time prior to the last date for receipt of bids, The Organisation may for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Tender document by an amendment.
- The Organisation may at its own discretion extend the last date for the receipt of bids.
- The Organisation reserves the right of accepting any bid other than the lowest or even rejecting all the bids. The decision of the Organisation is final in all matters of tender and purchase.

SUBMISSION OF TENDER

1. Eligibility Criteria: Tenderer should have successfully supplied & installed the same instrument to Government or Private Firm / Department within the last 05 (Five) financial years. Purchase order copy of the same may be enclosed as proof.
2. The bidder should be a manufacturer / authorized representative of a manufacturer, who must have designed, manufactured, tested and supplied the goods of similar to the type specified in Technical Specifications which has been in successful operation for at least two years on the date of bid opening.
3. Payment terms: Upto 50% advance payment/part payment shall be made upon finalization of the bid. Balance payment shall be made after satisfactory receipt and successful installation.
4. The rates shall be inclusive of packing & forwarding charges, insurance, installation & commissioning, freight charges for delivery of materials at the address specified by Kashtakari Panchayat (within Pune city).
5. Delivery Period: Within 60 days from the date of receipt of order.
6. Applicable Taxes & duties shall be clearly mentioned against the item.
7. The tender shall be valid for minimum 30 days after the date of closing.
8. Warranty: The supplied Single Screw Extruder shall have minimum 1 year warranty from the date of installation & commissioning on all components and parts
9. Warranty period, discount offered, and other terms, if any, shall be indicated in neat & clean manner in the Tender.
10. The bidder should mention **the country of origin of the machine.**
11. The Tenderer may use their own format for submission of tender and Detailed Quotation provided that all of the information requested within the Technical Bid and Price Schedules are mentioned clearly and in detail. The tender shall contain detailed cost in INR Rupee, with all applicable Tax/Charges.
12. The tender documents and/or quotations should be on the letterhead or the company, or have the stamp and signature of the authorized signatory of the company.
13. For soft copy submissions, only digital signature will be accepted.
14. Tenders may be submitted in one of two ways:
 - a. By Speed Post in a sealed envelope to the following address - Kashtakari Panchayat, 5, Pleasant Apartments, 80/2/2, Baner Residency, Baner Road, Pune, Maharashtra-411007, Contact No: 8329538283.
 - b. By email to admin@kashtakaripanchayat.org including all tender documents as soft copy.
15. The successful Tenderer has to deposit an amount equivalent to 3% of the contract value till the Warranty Period as Performance Security deposit in the form of Demand Draft / Banker's Cheque within 10 days after the acceptance of the tender. The DD/Banker's Cheque shall be drawn in favour of Kashtakari Panchayat, Pune payable at Pune.
16. Date of submission: The date of receipt of the hard copy or soft copy by Kashtakari Panchayat will be considered the date of submission of the tender.

Technical Bid

DESCRIPTION: Supply of Single Screw Extruder at Kashtakari Panchayat, Pune

Sl. No.	Particulars To Be filled up by the Tenderer / Bidder:	
1	Name of the Tenderer / Supplier	
2	Postal address	
3	Telephone No. with STD code	
4	Name of Contact person	
5	Mobile No.	
6	E-Mail ID	
7	The firm should have valid registration certificate in support of establishment of the firm (Registration No.)	
8	PAN (Permanent Account Number)	
9	Certificates of Registration for GST as applicable	
10	Experience of supplying & installation of same instrument to Government or Private Firm / Department within the last 05 (Five) financial years. Purchase order copy of the same may be attached as proof.	
11	Validity of Offer	

Name:

Place:

Signature of Bidder / Tenderer with Seal

PRICE SCHEDULES

[To be submitted along with the Financial Bid]

(Supply of Single Screw Extruder at Kashtakari Panchayat, Pune)

To,

Kashtakari Panchayat,

5, Pleasant Apartments, 80/2/2, Baner Residency, Baner Road,

Pune, Maharashtra.

Dear Madam/Sir,

Subject: Financial Bid for Supply & Installation of Single Screw Extruder.

In response to tender enquiry cited above, we are pleased to enclose the following as our financial bid for your kind consideration.

Sl. No.	Description of the Item	Unit	Quantity	Basic Price (Rs.)	Applicable Taxes (Rs.)	Total Amount (Rs.)
1	Supply & Installation of Single Screw Extruder and other paraphernalia as mentioned in the Tender Notice	Nos.	01			
2	Installation Charges (If Applicable)	Total	01			
3	Delivery / Courier Charges (If Applicable)	Total	01			
	Total Amount (Rs.)					
	Total Amount (Words)					

Name:

Place:

Signature of Bidder / Tenderer with Seal