



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai - 400076

PR : 1000022422

Rfx : 6100000952

Technical Specification :

FABRICATION of EXTRUSION PLANT – 1 no.

1. Grinder machine: Capacity 18”, 15 HP motor
2. Mixer machine: Capacity 25 kg, Motor 20 HP
3. Sutter machine 4” screw, 6.5” barrel, 20 HP motor, AC dry heater, and tank
4. Conveyor consists of :
 - a. PLC input-output
 - b. LPM controlled relay output
 - c. Hot wire cutter assembly with transformer & pneumatic cylinder
 - d. Pneumatic press cylinder 6”
 - e. Press location proxy
 - f. Conveyor motor
 - g. Conveyor VFD
 - h. Box sensor
 - i. FRL
 - j. Press cylinder control valve
 - k. PLC with touch screen HMI 10”
 - l. Conveyor motor line choke
 - m. Panel
 - n. Reduction gearbox for conveyor motor
 - o. Cutter cylinder 5” stroke
 - p. Dye
5. Extruder should be provided with a gas venting system

Terms and conditions:

1. Engineering drawings (AutoCAD) for all parts of the setups should be provided by the fabricator.
2. All the parts of the equipment should be covered under integrated comprehensive maintenance warranty for a minimum of 24 months after the delivery of the plant.

3. All the equipments should be capable of processing inorganic mineral filler materials along with engineered polymers (or commodity polymers).
4. A pre-bid meeting is a must with all interested fabricators before the technical scrutiny of the bid to fabricate the facility, where bidders are welcomed to present their expertise in fabrication and wide-range of facilities available with them.
5. Pre-bid meeting date & time : 27.11.2021 @ 10:30am
Pre-bid venue : Prof. D N Singh, Environmental geotechnology lab, VMCC, IIT Bombay, Powai, Mumbai - 400076
6. Equipment should be delivered within 12 weeks from the date of release of the Purchase Order.
7. The fabricated equipment will be accepted for delivery only after it successfully passes the demonstration test at the vendor's workshop, using the materials chosen by and in the presence of the client / customer (to be discussed if required in the pre-bid meeting)
8. The vendor must extend technical support in resolving issues/defects related to the fabricated plant and its operation during its lifetime (i.e., even beyond the warranty period) with appropriate costs associated with the repair. Undertaking is to be provided in this regard.