



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008 (ODISHA)**

An Institute of National Importance under Ministry of HRD, GOI

NOTICE INVITING TENDER

Tender Notification No: NITR/PW-SR/FP/2020/14

Dated: 28/01/2020

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Fabrication of Cryogenic Decorticator cum Grinder**, at NIT Rourkela.

Last date of Submission of Bid : **19/02/2020 by 03:00 PM**

Opening date of Techno-commercial Bid: **20/02/2020 at 03:00 PM**

For Details:

http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx

Contact: Prof. R. C. Pradhan, FP;

Ph: 06612462904 (office) /08895427339 (Mob.)

Email: pradhanrc@nitrkl.ac.in

Bidding Through: e-Procurement Portal of Ministry of HRD, Govt. of India

<https://mhrd.euniwizarde.com/>

**Sd/-
REGISTRAR**



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008, ODISHA**

(OPEN TENDER NOTICE NO: NITR/PW-SR/FP/2020/14

Dated: 28/01/2020)

(Tender for Fabrication of Cryogenic Decorticator cum Grinder)

Sl. No.	Description of Goods/Service	Quantity
1.	Fabrication of Cryogenic Decorticator cum Grinder (As per specification mentioned in Annexure-I)	01

- 1. Quantity required: As mentioned above (All information provided in technical specification in Annexure - I)**
- 2. Delivery** : Within **90 days** from the date of purchase order
- 3. Last date of Submission of Bid** : **19/02/2020 by 03:00 PM**
- 4. Opening date of Techno-commercial Bid: 20/02/2020 at 03:00 PM**
5. The firm should not have been black listed at any time.
6. The submission of following bids by the tenderer should be through e-Procurement Portal of Ministry of HRD, Govt. of India <https://mhrd.euniwizarde.com/>. Please follow the guidelines as per the portal.

Fabrication of Cryogenic Decorticator cum Grinder

(Open Tender Notice No: NITR/PW-SR/FP/2020/14 Dated: 28/01/2020) Due on 19/02/2020 by 03:00 PM

7. Liquidated damage clause will be charged for any delay in supply of goods.
8. The validity of the tender shall be **120 days** from the date of opening of the bids.
9. Detailed advertisement including all tender documents is also available in our website at http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx
10. NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.

**REGISTRAR
NIT, Rourkela
Fax No- 0661-2462022
Ph. No -0661-2462021**

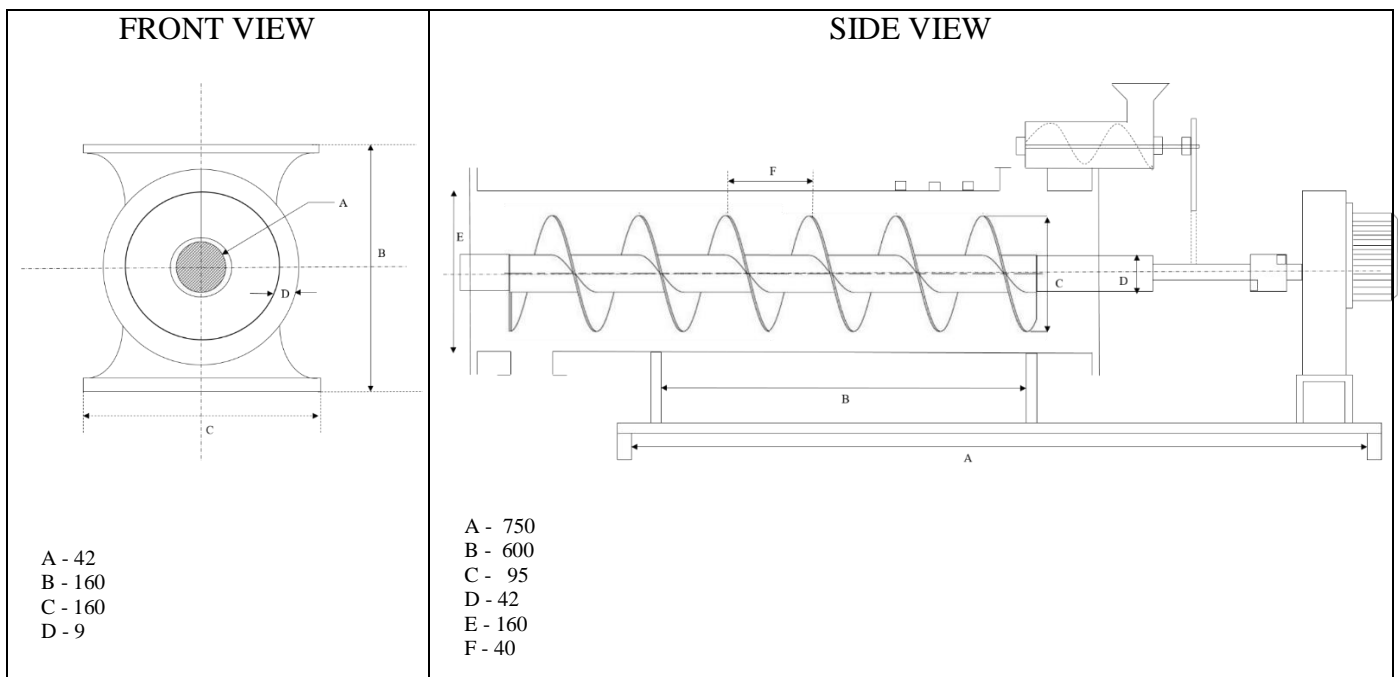
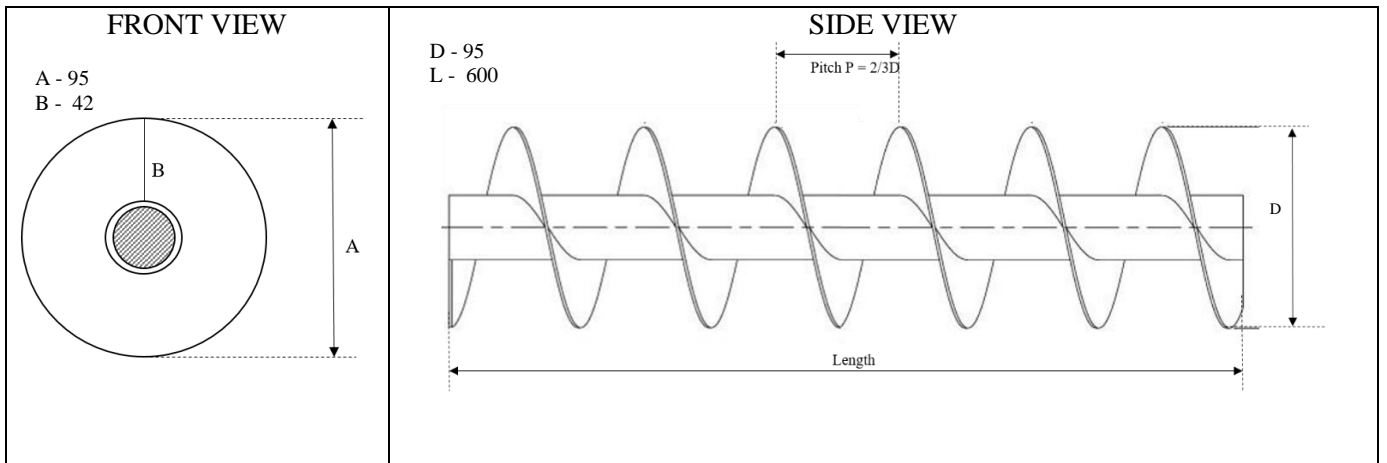
Detail Specification for Fabrication of Cryogenic Decorticator cum Grinder

Cryogenic Decorticator cum Grinder should have Screw Conveyor precooling cum feeding unit to Decorticator, followed by Vibro Separator for sieving decorticated product, finally pulverized in Pulverizer for desired fine powder product. Detailed specifications are given below:

Specification:

Screw Conveyor: 0.37 KW fitted with gear box, motor, RPM Control device, Capacity: 20 kg/Hr.

Design of a Screw

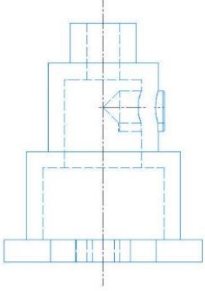
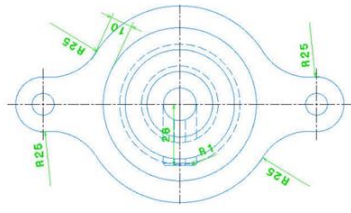
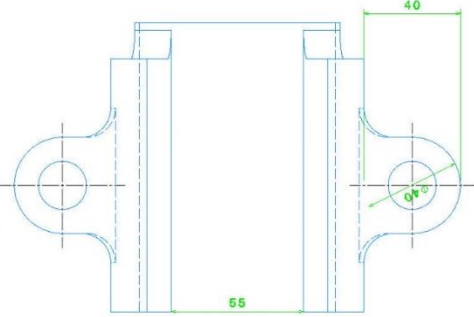
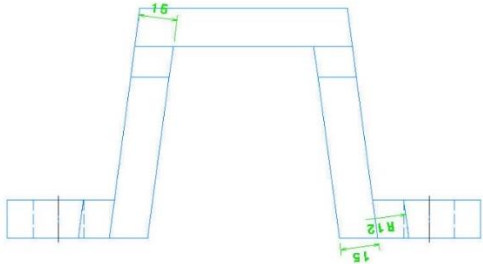
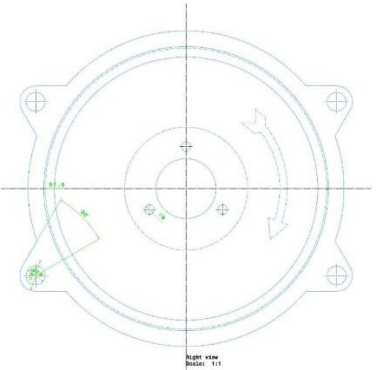

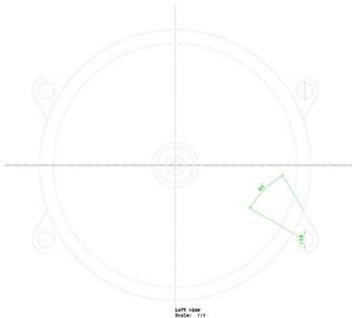
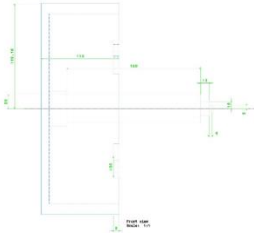


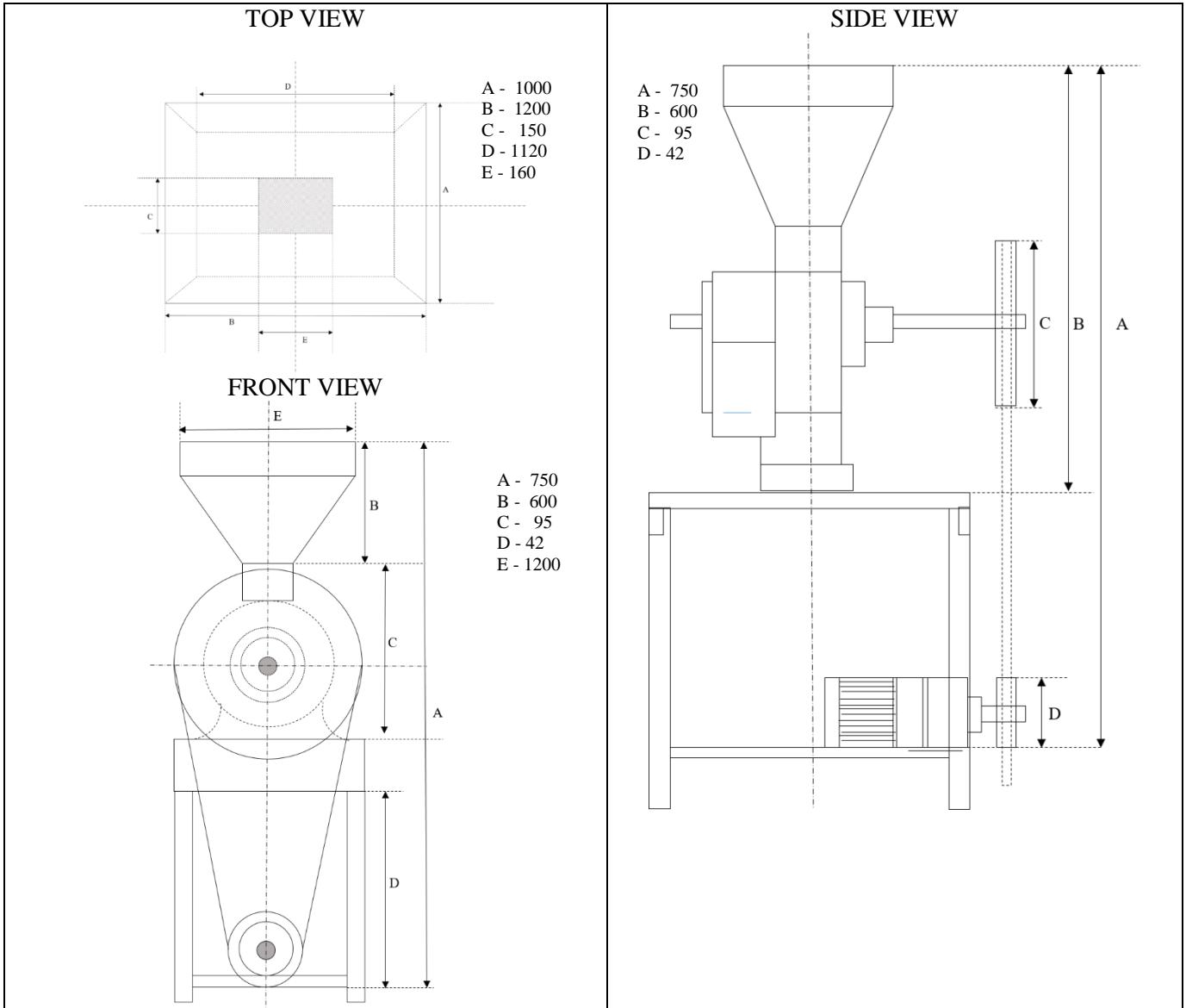
Note: All Dimensions are in mm.

.....Annexure –I

Decorticator: 2 HP motor, Decortication capacity: 20-30 Kg/Hr. MOC: Cast steel structure

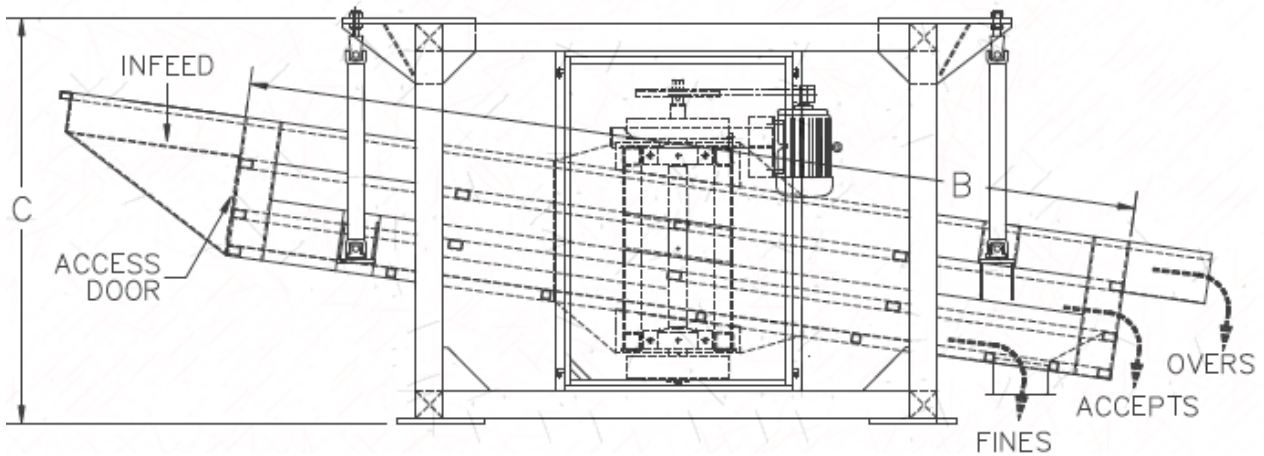
Components

<p style="text-align: center;">SIDE VIEW</p> 	<p style="text-align: center;">TOP VIEW</p> 
<p style="text-align: center;">SIDE VIEW</p> 	<p style="text-align: center;">TOP VIEW</p> 
<p style="text-align: center;">TOP VIEW</p> 	<p style="text-align: center;">SIDE VIEW</p> 
<p style="text-align: center;">TOP VIEW</p> 	<p style="text-align: center;">SIDE VIEW</p> 



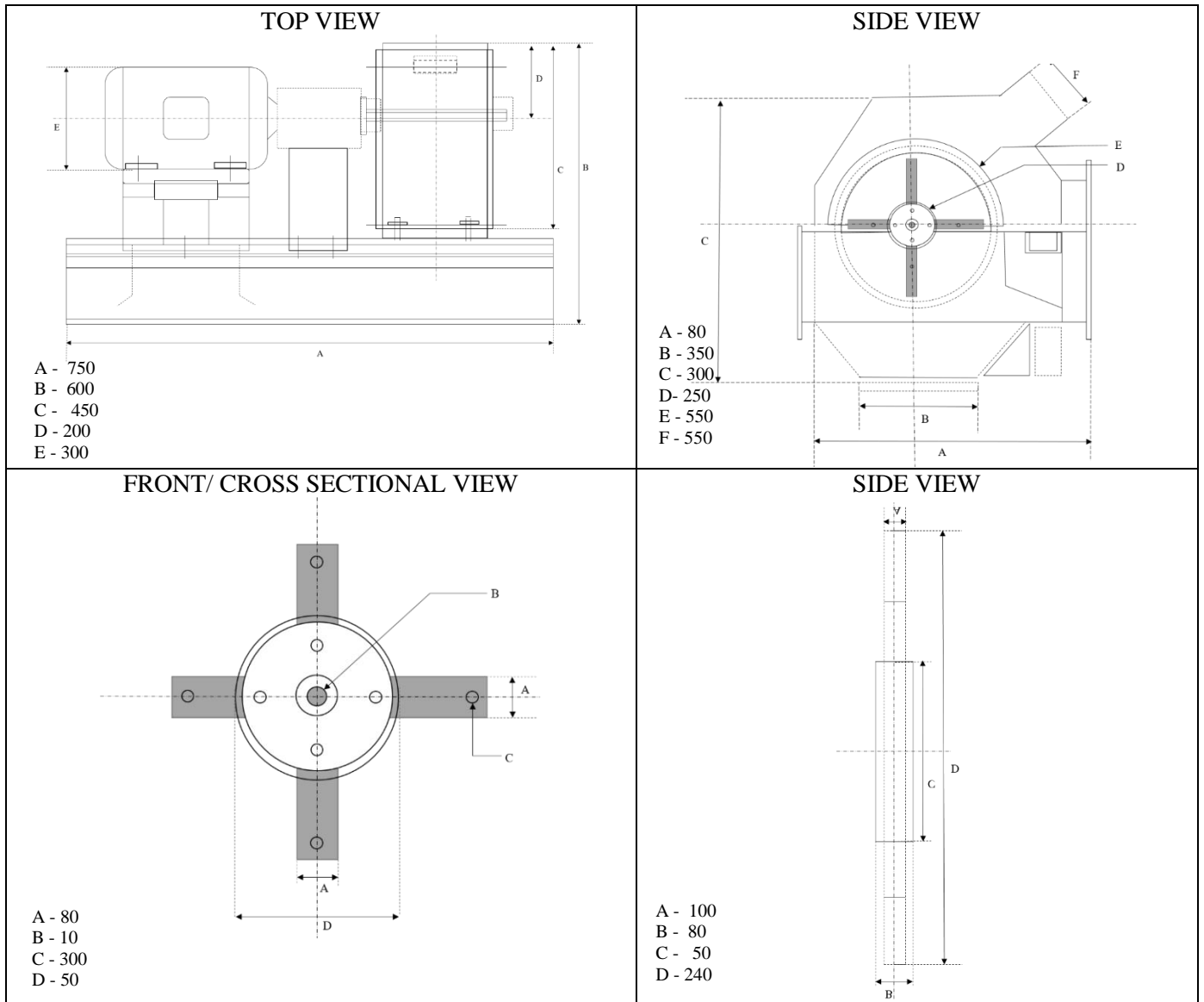
Vibro separator: 1 HP drive fitted with air aspirator.

MOC: Cast steel structure with three S.S. mesh



Mesh 1 – perforation size in mm – 20 mm
 Mesh 2 – perforation size in mm – 12 mm
 Distance between two successive screen - 100 mm
 Length – 1200 mm
 Width – 500 mm
 Height – 350 mm

Grinder/ Pulverizer: 2HP drive, S.S contact part, 125 mesh, Grinding capacity:10-15 Kg/Hr.



Material of Construction:

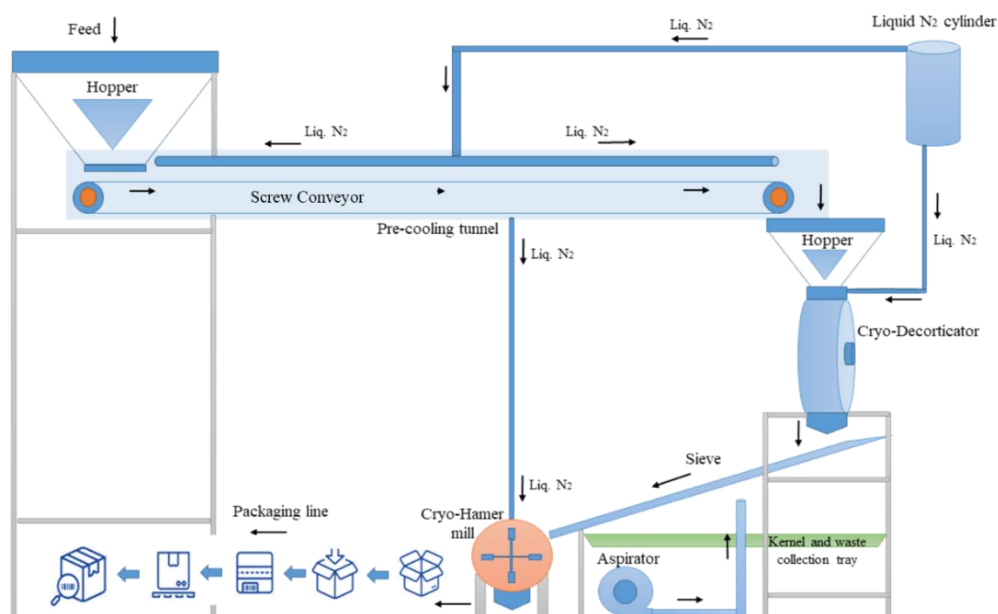
- Product contact parts: S. Steel
- Main frame structure: Mild or cast steel
- LN₂ nozzles fittings: S. Steel

Main Voltage: 415V, 50Hz; AC 3 Phase Supply±10%,

Optional/Additional Accessories:

- Thermocouples with digital display, and centralized control panel.
- Cotton wool insulation covering for the LN₂ piping

Complete Schematic Lay-out of Machine for Cryogenic Decortication cum Grinding Unit



Schematic diagram of Cryogenic Decortication cum Grinding

Details of the configuration and deviation must be provided along with technical bid.

Other Terms and Conditions

1. Certificate from OEM or its Indian representative to have a complete after sales service set up unit in India.
2. If the bidder is not an OEM, the representative must submit a certificate from OEM for serving the same OEM in India at least for 5 years.
3. Warranty and Comprehensive Maintenance Contract (CMC):
 - (i) Comprehensive warranty for 1 years including spares and consumables. Warranty will be effective from the date of successful installation at NIT-Rourkela.
4. Price should include installation and delivery of the Cryogenic Decortication cum Grinding Equipment to NIT-Rourkela basis. Customs duty exemption certificate will be provided by the Institute.
5. **Release of EMD:** The EMD of the successful bidder shall be released after successful installation of the units.
6. **Validity of bids:** The rate quote should be valid for a minimum of 120 days.
7. Firm / Manufacturer have fabricated & supplied equipment to any IITs or NITs (Purchase Order should be attached)