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| **Subject: FACTORY BUILDING WITH ALL TYPES OF UTILITY BUILDING** | | | |
| **Sr. No.** | **Description** | **Qty.** | **Unit** |
| 1 | **Main factory building Civil work:** Work includes.  Excavation, backfilling, plinth filling upto avg 3ft height (ground finish level to plinth finish level 3’ height), avg 1ft soil filling (NGL to  FGL), RCC footing, RCC Column, Tie beam, 3’ f t Plinth brick masonry. 9” rubble soling, 4” th. Base pcc, above plinth brick masonry 1 ft wall,  Internal single coat wall plaster, outer double coat plaster, VDS leaser screed flooring without polish. | 21,128 | SFT |

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| 2 | **Fabrication Work**  Fabrication works as per section details with all types of material and labor. Lowest height is 22 ft & max height is 32 ft. | 21,128 | SFT |
| 3 | **Row material s t o r a g e godown (civil & fabrication work):** Civil work followed by piling & pile cap work, storage area will be (+6”) from final plot level, slope towards drain. F a b r i c a t i o n work includes top roof work & 30% wall cladding from upper side to protect row materials from rain. | 10,304 | SFT |
| 4 | **M e z z a n i n e s l a b f o r office:** Work includes mezzanine floor in fabrication (I Beam, C -channel & box pipe), slab will be followed by deck sheet installation & Concrete will be laid down with nominal steel. | 1771 | SFT |
| 5 | **UGWT** | 70,000 | LTR |

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| 6 | **Labor colony w i t h t o i l e t block, 2No security cabin, labor toilet in plant):** Work includes RCC, Brick masonry & plaster work. | 1101 | SFT |
| 7 | **G S B road work:** Work includes Gsb road making with subbase preparation & soil levelling. | 21,665 | SFT |
| 8 | **Septick tank** | - | L/S |

**Vented Recycling Plant.**

Material : Suitable for LD, HD, LLDPE, PP Agglomerated Material, Resins,

Lumps Grinding & Article Waste Grinding PP UPTO 12-15 mfi. If the material is not suitable above 80 mesh for running time of machine, then strand pelletizing option has to be planned compulsory.

(Heavy Weight Material & Good Quality Waste)

Material size must be 8mm to 12 mm.

**Out Put : 400-500 kg/hr.**

(80/80 mesh, 30-minute screen changeover time, depending upon bulk density of Scrap, Mesh to be applied, Specific gravity & contamination %)

Water Requirement : 2500 - 3000Lit/Hr.

**TECHNICAL SPECIFICATIONS**

1. **FORCE FEEDER** : Fabricated hopper with forced feeder **3.75 KW** AC Motor and

drive. With magnet Grill to avoid metal getting entered the extruder.

1. **EXTRUDER**

**SCREW** :120 mm diameter. (Vented Type)

Material : EN-41B, Stress Relieved and Gas Nitrided.

**BARREL** : To Suit Diameter 120 mm Screw.

Material : **EN-41B**, Gas Nitrided.

Heating System : Ceramic band heaters with PID temperature Controllers

Gear Box : Helical Type with integral thrust bearing housing.

1. **SCREEN CHANGER :** Hydraulic type Screen with Diameter **300 mm**.

No of Zones : 2 Zones.

1. **DIE HEAD :** Specially designed for die face cutter.

1. **DIE FACE CUTTER** : Cutter assembly with SS 304 body assembly.

Compact tank Design.

Spring steel blades (4 Nos.)

Pressure Gauge : **BOSS**

Bearing Housing : S.S. 304

Blade Holder : S.S. 304

Safety Switch : 2 limit switches provided for safety purpose.

1. **DE-WATERING UNIT**: De-watering system is with **2** Pump.

Minimum welded full body.

Special Sturdy design.

Filtration : 2 stage filtrations for easy operations.

Rotor : Special designed rotor with dual bearing.

Safety : Special designed assembly to prevent water entering in bearing.

Blower **:** Maximum moisture removal blower

Dusting : Dust collection chamber.

Safety Switch : 2 limit switches provided for safety purpose.

1. **CONTROL PANNEL** : Integral control cabinet mounted on base.

**Total Zone** : **10** Zone Control Panel which include.

7 Zone of Barrel.

2 Zone of Screen Changer  
 1 Zone of Die Head.

1. **REMOTE PANNEL :** Remote Panel for ease of operations

**It Includes**

Power on indicator.

Drive control: Drive will be fitted inside the panel cabinet and drive keypad are provided on panel door which shows motor current. (Amp), Frequency and Motor rpm.

Speed potentiometer for main motor, forced feeder and Cutter.

Motor stop and start button.

Temperature Controllers.

**Electrical Accessories Make (Mentioned/Equivalent)**

AC Motors – **ABB/CROMPTON**

AC Drives – **ABB/DELTA/INNOVENCE**

All Switch Gear – **SCHNEIDER**

Ampere Meter – **RISHABH**

Push Buttons – **TEKNIC**

Potentiometer – **BOURNS**

Temperature Controller – **OMRON/MULTISPAN**

**Subject: Grinder.**

Input : PP/HDPE

Rotor size : 24 Inch Rotor

(Grinder having Bearing housing arrangements.)

Output : 200 -300 Kg/Hr. (Depending upon the material)

Power Supply : 3Ø x 415 V – 50 Hz.

Motor : 30 HP Motor with DOL STARTOR.

Mesh Size : 30mm

Blades : D2 or equivalent.

**SUBJECT: Dual Shaft Shredder**

Material Processed : PP/LDPE/HDPE

Out Put : 450-600 Kg/Hr.

Power Supply : 3Ø x 415 V – 50 Hz.

Motive Power : 30HP

## TECHNICAL SPECIFICATION

Motive load : 15 HP × 2

Type : High torque Geared motor

Reducer : KA97 × 2

Blade Diameter : 220 mm

Blade thickness : 15-25 mm

Feed Port Size (mm) : 900 × 700.

Knife box Size (mm) : 610 × 450.

Shredding Capacity : 400-500 Kg/Hr.

**Drum Washing Line**

Material : 200L-250L HDPE/MS Drums (Closed/Open)

Capacity : 100-120 Drums per hour

Washing Sequence : Hot Rinse, Cold Rinse, Hot Detergent Wash, Solvent Wash.

Pumps : Min 10HP pumps- 2 nos  
 : Min 7.5HP Pumps – 2 Nos

Nozzle Type : Jet Nozzles

Washing Temperature : Up to 70 degree Celsius