

TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

Sl No.	Description of items	Quantity
PUR/575583/ERT/SB/E/2019-20		
01.	Inclined Roller Conveyor with delivery chute	04 Nos.
02.	Eddy Current Separator (Detail Specification as per Annexure)	01 No.

1. INSTALLATION/COMMISSIONING

1.1. REQUIRED

2. WARRANTY

2.1. 12 Months onsite Warranty from the Date of Satisfactory Installation and Commissioning.

**Supply, Installation and Commissioning of Inclined Roller Conveyor with delivery chute at
Amrawati, CRPF Group Centre, Durgapur, West Bengal 713214**

1 End user:

The Inclined Roller Conveyors will be installed in Amrawati, CRPF Group Centre, Durgapur, West Bengal 713214.

2 Detailed specification:

a) Inclined Roller Conveyor with delivery chute: 1 No.

Length → 10 m

Belt width → 500 mm

Type of belt → Canvas/Rubber coated

Thickness of belt → 4 ply

Start of conveyor → 300 mm from Ground level

Delivery of conveyor → 6500 mm from Ground level

Angle of Inclination → 35-40°

Sideguard → 250 mm (AISI304)

Spacing of rack → 400 mm (AISI304)

Height of rack → 250 mm (AISI304)

Motor → 3 hp, 3 phase and 1:50 Gear Box

Structural Frame → ISMC (100 mm × 50 mm × 6 mm) MOC MS-IS2062

ISMA (100 mm × 50 mm × 6 mm) MOC MS-IS2062

b) Inclined Roller Conveyor with delivery chute: 2 Nos.

Length → 7.0 m

Belt width → 500 mm

Type of belt → Canvas/Rubber coated

Thickness of belt → 4 ply

Start of conveyor → 300 mm from Ground level

Delivery of conveyor → 4500 mm from Ground level

Height of conveyor → 300 mm from Ground level

Angle of Inclination → 35-40°

Spacing of rack → 400 mm (AISI304)

Height of rack → 250 mm (AISI304)

Sideguard → 300 mm

Motor → 3 hp, 3 phase and 1:50 Gear Box

Structural Frame → ISMC (100 mm × 50 mm × 6 mm) MOC MS-IS2062

ISMA (100 mm × 50 mm × 6 mm) MOC MS-IS2062

c) Inclined Roller Conveyor with delivery chute: 1 Nos.

Length → 4 m

Belt width → 500 mm

Type of belt → Canvas/Rubber coated

Thickness of belt → 4 ply

Start of conveyor → 300 mm from Ground level

Delivery of conveyor → 2500 mm from Ground level

Height of conveyor → 300 mm from Ground level

Spacing of rack → 400 mm (AISI304)

Height of rack → 250 mm (AISI304)

Angle of Inclination → 35-40°

Sideguard → 250 mm

Motor → 2 hp, 3 phase and 1:50 Gear Box

Structural Frame → ISMC (100 mm × 50 mm × 6 mm) MOC MS-IS2062

ISMA (100 mm × 50 mm × 6 mm) MOC MS-IS2062

3 Scope of supply & incidental services:

a) Inclined Roller Conveyor with delivery chute: 4 Nos.

Detailed specification as Provided in Section 2 above.

The supplier shall be required to perform the following services:

- a) Installation & Commissioning, Supervision and Demonstration of the goods;
- b) Providing required jigs and tools for assembly required for the completion of the installation;
- c) Cabling from main panel to all instruments and devices;
- d) Onsite training to Scientists/Technical Officers/Staffs is to be provided by Supplier for operation and maintenance of the equipment to the complete satisfaction of the user department;
- e) All safety requirements are to be incorporated.

4 Inspection and Acceptance Tests required:

Trial run and full load test will be conducted for 3 days to the complete satisfaction of the end user in the presence of Scientists/Technical Officers from CSIR-CMERI.

5 Minimum Pre-Qualification Criteria:

None

Supply, Installation and Commissioning of Eddy Current Separator at Amrawati, CRPF Group Centre, Durgapur, West Bengal 713214

1 End user:

The Eddy Current Separator will be installed in Amrawati, CRPF Group Centre, Durgapur, West Bengal 713214.

2 Detailed specification:

a) Eddy Current Separator

Description	Specification
Equipment	Eddy current separator with vibratory feeder
Magnet	High Intensity High Gradient High-Power Rare-Earth Magnet
Magnetic gauss power	12000 Gauss
Feeding Material	Municipal Solid Waste
Material Flow Rate	100 kg/h
Feed temperature (°C)	Max. 50
Output material separation	Nonferrous (aluminium, copper, etc) Ferrous (Iron) Non-metallic (glass, wood, paper etc)
Materials to be separated	Piece having weight of maximum of 50 gm
Power Drive (Eddy Current Drum)	ABB/Havells/Crompton 3.5 kW, 3Φ, 415 V, 50 Hz, 2880 RPM
Belt Drive	ABB/Havells/Crompton 0.75 kW, 3Φ, 415 V, 50 Hz, 1440 RPM with VFD to control the speed
Belt	Canvas Belt; Width – 500 mm & Thickness- 6 mm
Bearing	Heavy duty self-aligning flange bearing (SKF make)
Shaft	EN8
Material of construction	MS IS2062
Enclosure	Totally enclosed Dust proof
Feed system	Electro mechanical feeder Foot Mounted Open Coil Spring Assembly 1 No. 0.5 HP, 3Φ, 415 V, 50 Hz
Discharge hopper	1 No. of Discharge Hopper for Non-metal 1 No. of Discharge Hopper for Metal (Ferrous) 1 No. of Discharge Hopper for Metal (Non-Ferrous)

Subho Samanta
24.12.2019

3 Scope of supply & incidental services:

a) Eddy Current Separator

Detailed specification as Provided in Section 2 above.

The supplier shall be required to perform the following services:

- a) Installation & Commissioning, Supervision and Demonstration of the goods;
- b) Providing required jigs and tools for assembly required for the completion of the installation;
- c) Cabling from main panel to all instruments and devices;
- d) Onsite training to Scientists/Technical Officers/Staffs is to be provided by Supplier for operation and maintenance of the equipment to the complete satisfaction of the user department;
- e) All safety requirements are to be incorporated.

4 Inspection and Acceptance Tests required:

Trial run and full load test will be conducted for 3 days to the complete satisfaction of the end user in the presence of Scientists/Technical Officers from CSIR-CMERI.

5 Minimum Pre-Qualification Criteria:

None

Subho Samanta
24.12.2019