TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

Sl No.	Description of items	Quantity
PUR/36/ERT/MP/E/2021-22		
1	SUPPLY & INSTALLATION OF CONVEYING SYSTEM (DETAILS AS PER ANNEXURE – I ATTACHED)	08 Nos.

1. **INSTALLATION, COMMISSIONING AND TRAINING**

1.1. The ordered goods are to be installed & commissioned within 30 days of delivery of the material at Deptt. Of Mechanical Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar,Coimbatore, Tamil Nadu - 641114. Installation should be carried out only by expert engineers of Supplier / Manufacturer at Free of Cost basis. During the course of installation, necessary training on operation and maintenance of the goods shall be imparted to Institutes Scientist / Engineers/Technicians.

2. **WARRANTY**

2.1. Comprehensive on-site warranty for a period of two year (24 months) must be provided to be effective from the date of successful completion of the installation, commissioning & training and final acceptance of the items / equipment at the user's laboratory / Institute.

3. Non-OEM Bidders must furnish the Manufacturer's Authorization Form (MAF) in CSIR prescribed format failing which their offer will be rejected.

Annexure-I

Specification

1. Inclined Z Shaped Belt Conveyor: 3 Nos.

- Length of the Feeding Portion of Conveyor → 1.0 m
- Length of the Middle Portion of Conveyor → 5.5 m
- Length of the Delivery Portion of Conveyor → 1.0 m
- Belt width → 500 mm
- Type of belt → Canvas/Rubber coated
- Thickness of belt → 5.0 mm
- Angle of Inclination → 50-55 degree
- Spacing of rack → 400 mm (AISI304)
- Height of rack →200 mm & 3.0 mm thickness (MOC: AISI304)
- Sideguard → 250 mm height & 3.0 mm thickness (MOC: AISI304) with detachable attachment
- Feeding Hopper with Electro mechanical vibratory chute → Foot Mounted, Open Coil Spring Assembly, 1 No. 1.0 HP, 3phase, 415V, 50 HZ, Top of Feeding Point + 1000mm from GL (max)
- Delivery Hopper with Electro mechanical vibratory chute → Foot Mounted, Open Coil Spring Assembly, 1 No. 1.0 HP, 3phase, 415V, 50 HZ, Top of Feeding Point + 4000mm from GL (max)
- Motor → 3 hp, 3 phase 415V, 50hz (Preferred Make: Crompton/ABB/Havells/Siemens/BBL etc); 1:30 Gear Box (Preferred Make: PBL/Elecon/Standard etc.); Bearing (Preferred Make: SKF/NTN etc)
- Structural Frame→ ISMC (75mm×40mm×4.8mm) / ISMA(50mm×50mm×6mm) / Square Tube (50mm×50mm×2mm) MOC MS-IS2062
- Height adjustment→ height adjustment screw at bottom of frame for adjustment upto 50.0mm
- Belt Tensioning→ belt tensioning screw at feeding & delivery end and adjustment 100.0mm (min)

2. Inclined Z Shaped Belt Conveyor: 1 No.

- Length of the Feeding Portion of Conveyor → 1.0 m
- Length of the Middle Portion of Conveyor → 8.5 m
- Length of the Delivery Portion of Conveyor → 1.0 m
- Belt width → 500 mm
- Type of belt → Canvas/Rubber coated
- Thickness of belt → 5.0 mm
- Angle of Inclination → 50-55 degree
- Spacing of rack → 400 mm (AISI304)
- Height of rack →200 mm & 3.0 mm thickness (MOC: AISI304)
- Sideguard → 250 mm height & 3.0 mm thickness (MOC: AISI304) with detachable attachment
- Feeding Hopper with Electro mechanical vibratory chute → Foot Mounted, Open Coil Spring Assembly, 1 No. 1.0 HP, 3phase, 415V, 50 HZ, Top of Feeding Point + 1000 mm from GL (max)
- Delivery Hopper with Electro mechanical vibratory chute → Foot Mounted, Open Coil Spring Assembly, 1 No. 1.0 HP, 3phase, 415V, 50 HZ, Top of Feeding Point + 6500 mm from GL
- Motor → 3 hp, 3 phase 415V, 50hz (Preferred Make: Crompton/ABB/Havells/Siemens/BBL etc); 1:30 Gear Box (Preferred Make: PBL/Elecon/Standard etc.); Bearing (Preferred Make: SKF/NTN etc)
- Structural Frame→ ISMC(75mm×40mm×4.8mm) / ISMA(50mm×50mm×6mm) / Square Tube (50mm×50mm×2mm) MOC MS-IS2062
- Height adjustment→ height adjustment screw at bottom of frame for adjustment upto 50.0mm
- Belt Tensioning→ belt tensioning screw at feeding & delivery end and adjustment 100.0mm (min)

3. Horizontal Belt Conveyor: 4 Nos.

- Length of the Conveyor (Centre to Centre of head pulley & tail pulley) → 4.0 m
- Belt width → 500 mm
- Thickness of belt → 5.0 mm
- Type of belt → Canvas/Rubber coated
- Height of conveyor → + 500 mm from Ground level
- Sideguard → 200 mm height & 3.0 mm thickness (MOC: AISI304) with detachable attachment
- Motor → 2 hp, 3 phase 415V, 50hz (Preferred Make: Crompton/ABB/Havells/Siemens/BBL etc); 1:30 Gear Box (Preferred Make: PBL/Elecon/Standard etc.); Bearing (Preferred Make: SKF/NTN etc)
- Feeding Hopper with Electro mechanical vibratory chute → Foot Mounted, Open Coil Spring Assembly, 1 No. 1.0 HP, 3phase, 415V, 50 HZ, Top of Feeding Point + 1000mm from GL (max)
- Structural Frame→ ISMC(75mm×40mm×4.8mm) / ISMA(50mm×50mm×6mm) / Square Tube (50mm×50mm×2mm) MOC MS-IS2062
- Height adjustment→ height adjustment screw at bottom of frame for adjustment upto 50.0mm
- Belt Tensioning→ belt tensioning screw at feeding & delivery end and adjustment 100.0mm (min)

N.B. Please refer Fig-1 & Fig-2 for schematic of Z shaped belt conveyor and horizontal belt conveyor

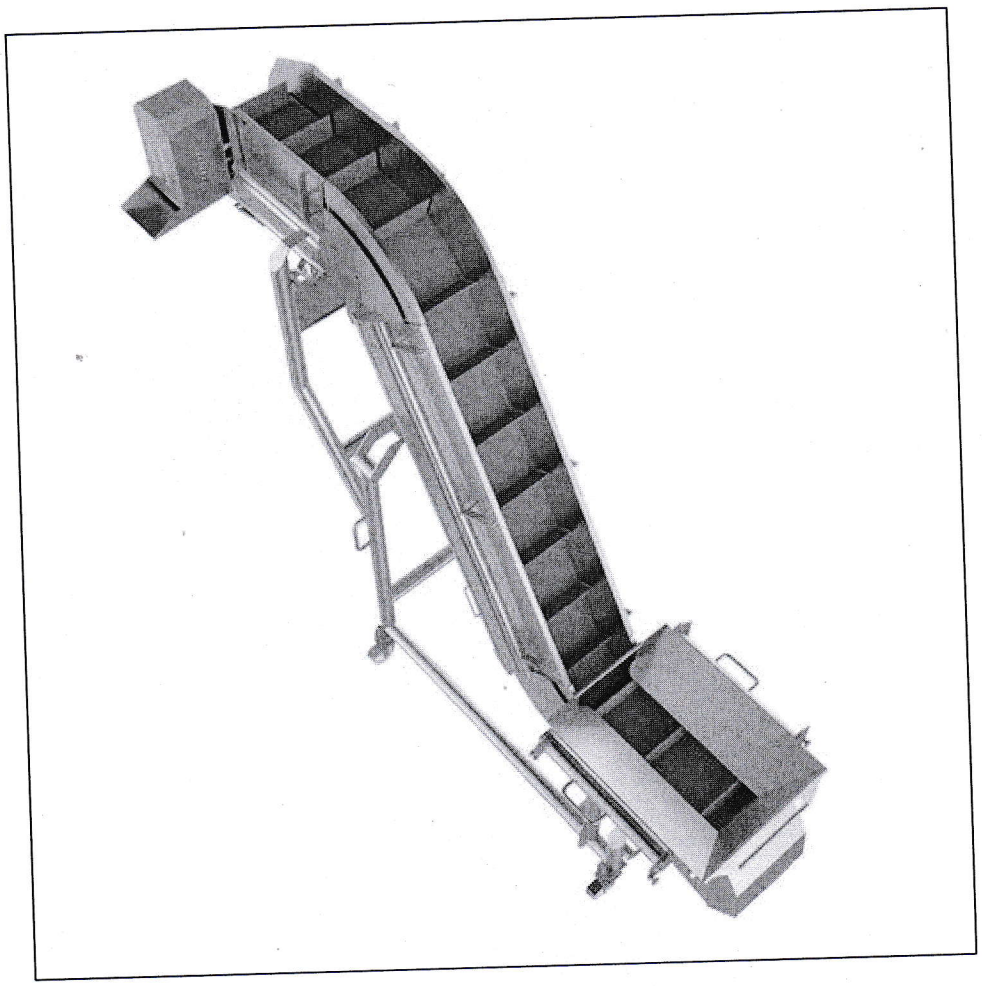

Fig-1: Schematic of Z type inclined belt conveyor

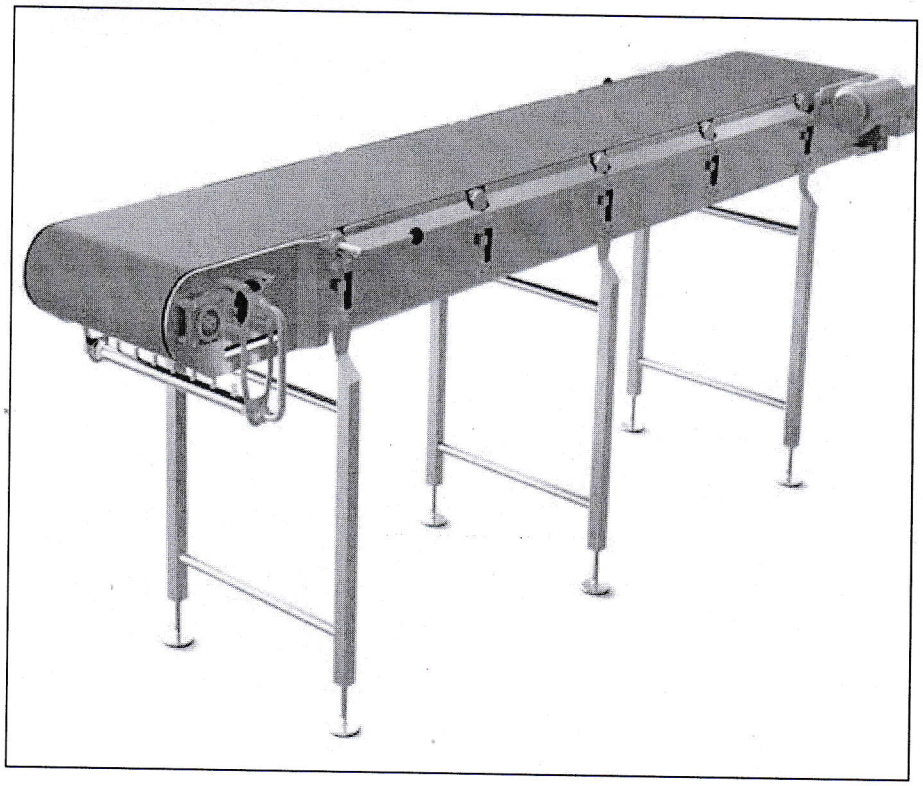

Fig-2: Schematic of horizontal belt conveyor

N.B.

1. Mention Model No, Make and Specification of Equipment specifically or else bid shall be rejected
2. Don't copy paste the tendered specification or else bid shall be rejected
3. Provide necessary photographs or drawing (whenever applicable) along with the technical bid

Place of Delivery:

Dept. of Mechanical Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore, Tamil Nadu 641114.

Unloading of Material at Delivery Site: In Scope of Supplier
Installation: In Scope of Supplier
Warranty: 24 months

Partha Das
08/04/2021