



ENVIROTECH SYSTEMS PVT. LTD.

(An ISO 9001:2008 Company)

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ISO 9001:2008 CERTIFIED ORGANISATION

CLIENT: - M/S Ester Industries Limited

PROJECT: - Manufacture, Supply & Installation of Acoustic Enclosures for DG Sets & Acoustic Doors for 4.2 MW DG Room.

Envirotech Systems Pvt. Ltd. has received an order of design, manufacture, supply & installation of **05 no. Acoustic Enclosures & 03 no. Acoustic Door from Ester Industries Limited**, a leading manufacturer of polyester films and engineering plastic compounds, for its manufacturing facility, located at Khatima (Uttarakhand), India.

DESIGN: - Acoustic Enclosure designed to fulfill site requirement i.e. easy open able from any side for maintenance purpose, proper air circulation in covered area, Vision panel & lighting inside the enclosure. The enclosure was designed with proper air circulation in the covered area with necessary air inlet & exhaust fans covered with acoustically treated hood to control noise.

Combined Acoustic Enclosures

Description	Size (L x W x H)	Qty.
Combined Acoustic Enclosure for 04 no. x 1250 KVA DG Sets with 3 sides wall, Roof and front side acoustic lining on brick wall	17000 x 8200 x 4250 mm	01 No.
Combined Acoustic Enclosure for 05 no. x 1000 KVA DG Sets with 3 sides wall, Roof and front side acoustic lining on brick wall	19100 x 8200 x 4250 mm	01 No.
Combined Acoustic Enclosure for 2 no. x 1670 KVA DG Sets	9000 x 8000 x 5000 mm	01 No.
Individual Acoustic Enclosure for 01 no. x 1000 KVA DG Sets	8500 x 2900 x 3200 mm	01 No.

1. **DESCRIPTION:** - Combined Acoustic Enclosure for 04 no. x 1250 KVA HE Cooled DG Sets with 3 sides wall, Roof and front side acoustic lining on brick wall.

SIZE: - 17000 x 8200 x 4250 mm

Features: - Acoustic Enclosure was provided with

- 03 no. Single leaf Acoustic Doors for general access, Size: 1200 x 2100 mm
- 04 no. Acoustic sliding door shutter with jointed roof for maintenance purpose, size: 1500 x 4200 mm, sliding roof size: 1500 x 2500 mm
- 04 no. sound proof glass window, size; 900 x 900 mm fitted with rubber gasket
- 03 no. vision panel for viewing , size: 300 x 300 mm
- 04 no. acoustic louvers for fresh air intake, 1000 x 800 mm
- 04 no. 28 " axial flow fan for hot air exhaust covered with acoustically treated noise damper
- 100 mm thick acoustic lining at front existing wall laminated with GI perforated sheet
- Electrical wiring, switch board for inside lighting
- Two coat primer & automotive paint.

PERFORMANCE: - Noise level was measured 72 dB (A) at a distance of 1 meter.

2. **DESCRIPTION:** - Combined Acoustic Enclosure for 05 no. x 1000 KVA HE Cooled DG sets with 3 sides wall, Roof and front side acoustic lining on brick wall.

SIZE: - 19100 x 8200 x 4250 mm

Features: - Acoustic Enclosure was provided with

- 04 no. Single leaf Acoustic Doors for general access, Size: 1200 x 2100 mm
- 05 no. Acoustic sliding door shutter with jointed roof for maintenance purpose, size: 1500 x 4200 mm, sliding roof size: 1500 x 2500 mm
- 05 no. sound proof glass window, size; 900 x 900 mm fitted with rubber gasket
- 04 no. vision panel for viewing , size: 300 x 300 mm
- 05 no. acoustic louvers for fresh air intake, 1000 x 800 mm
- 05 no. 28 " axial flow fan for hot air exhaust covered with acoustically treated noise damper
- 100 mm thick acoustic lining at front existing wall laminated with GI perforated sheet
- Electrical wiring, switch board for inside lighting
- Two coat primer & automotive paint.

PERFORMANCE: - Noise level was measured 72 dB (A) at a distance of 1 meter.

3. **Combined Acoustic Enclosure for 02 no. x 1670 KVA DG Sets with 3 sides wall, Roof and front side acoustic lining on brick wall**

SIZE: - 9000 x 8000 x 5000 mm

Features: - Acoustic Enclosure was provided with

- 02 no. Single leaf Acoustic Doors for general access, Size: 1200 x 2100 mm
- 05 no Double leaf Acoustic Doors for maintenance purpose, size: 1800 x 2100 mm,
- 02 no. sound proof glass window, size; 900 x 900 mm fitted with rubber gasket
- 08 no. vision panel for viewing , size: 300 x 300 mm
- 02 no. acoustic louvers for fresh air intake, 1200 x 700 mm
- 02 no. 24 " axial flow fan for hot air exhaust covered with acoustically treated noise damper
- 02 no. 24 " axial flow fan for fresh air intake
- 100 mm thick acoustic lining at front existing wall laminated with GI perforated sheet
- Electrical wiring, switch board for inside lighting
- Two coat primer & automotive paint.

PERFORMANCE: - Noise level was measured 73.1 dB (A) at a distance of 1 meter.

4. Individual Acoustic Enclosure for 01 no. x 1000 KVA DG Sets

SIZE: - 8500 x 2900 x 3200 mm (L x W x H)

Features: - Acoustic Enclosure was provided with

- 06 no. Single leaf Acoustic Doors for general access, Size: 900 x 2100 mm
- 02 no Double leaf Acoustic , size: 1800 x 2100 mm,
- 04 no. vision panel for viewing , size: 300 x 300 mm
- 02 no. 24 " axial flow fan for hot air exhaust & fresh air intake covered with acoustic hood
- Two coat primer & automotive paint.

PERFORMANCE: - Noise level was measured 72.3 dB (A) at a distance of 1 meter.

5. DESCRIPTION: - 03 no. Acoustic doors with 40 STC Rating for 4.2 MW DG Room.

SIZE: -

Acoustic doors with 40 STC Rating

Description	Size (W x H)	Qty.
Acoustic Door for 4.2 MW D.G. Room (for generator room Access)	1170 x 2170 mm	02 No.
Acoustic Door for 4.2 MW D.G. Room (for generator room Access)	1970 x 2400 mm	01 No.