



ENVIROTECH SYSTEMS PVT. LTD.

(An ISO 9001:2008 Company)

B-1A/19, First Floor, Commercial Complex, Sector-51, Noida (U.P.) – 201307, India

Ph.-0120-4337633, 4224644, 4224633 / Mob – 98103-19823 / Fax-0120-4337439

Email: info@esplonline.com, sales@esplonline.com

www.acousticalworld.com



ISO 9001:2008 CERTIFIED
ORGANISATION

CLIENT: - M/S Siemens Limited

PROJECT: - Design, Manufacture, Supply, Installation & commissioning
of Acoustic Enclosures (02 Nos)

Envirotech Systems Pvt. Ltd. has received order of design, manufacture, supply, installation & commissioning of **01 nos. of Noise test Booth & 01 no. of Acoustic Enclosure** from Siemens Limited, India, for Thane (Maharashtra) Location for motor testing

DESCRIPTION: - 01 No. Noise test Booth (Noise Room) for motor testing at new customer test center.

CONSTRUCTION: - Entire structure of Noise test Booth was made up of 100 mm thick acoustic panels with sliding door and roof arrangement for material entry and exist facility by electric hoist.

SIZE: - 5000 x 62520 x 3950 mm (L x W x H)

Features: - Noise Room was provided with

- Single leaf Acoustic Door, Size: 800 x 2000 mm
- Sliding door Shutter (front side), size: 2900 x 3950 mm
- Sliding Roof, Cut out size: 2900 x 3000 mm
- Arrangement for electrical board for internal lighting
- Facility of conduit for wiring
- 02 no. of electric motors to operate the sliding door shutter & sliding roof mechanism
- Inner wall of Noise test Booth covered by 50 mm thick conical PU lining

PERFORMANCE: - we have achieved 42 dB (A) noise reduction whereas client gave a threshold of 40 dB (A) noise reduction.

Description: - 01 No. Acoustic Enclosure for 8A 8B Load Motor & gear box at new customer test center

Construction: - Acoustic Enclosure was modular, cap on type built (without base) around the **CI test Bed of Load Motor & gear box** and constructed by dismantle type noise shielded panels

Size: - **8000 x 3000 x 3000 mm (L x W x H)**

Features: - Acoustic Enclosure was provided with

- 02 no. Single leaf Acoustic Doors, Size: 1000 x 2000 mm
- 02 no. sound proof vision panels, size: 300 x 300 mm
- 04 no. sound proof glass window, size; 800 x 1000 mm fitted with rubber gasket
- Industrial type electrical lighting providing 300 Lux
- 02 no. air exhaust fan for fresh air circulation at top of the enclosure for Load Motor
- Exhaust fan covered with acoustically treated noise damper hood to control noise
- Cut outs arrangement for water & oil piping, approx 16 x cut out of 100 dia
- 02 no. fans were provided for inner air circulation for operator

Achievement: - The noise reduction from inside to outside was 38 dB (A). The outside noise was 72 dB (A) at one meter from enclosure surface at an inside noise level of 110 dB (A).