



ENVIROTECH SYSTEMS PVT. LTD.

(An ISO 9001:2008 Company)

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ISO 9001:2008 CERTIFIED ORGANISATION

CLIENT: - M/S Alstom Projects India Limited

PROJECT: - Design, Manufacture, Supply & installation of Acoustic Sliding Doors.

Envirotech Systems Pvt. Ltd. has received order of design, manufacture, supply, installation & commissioning of **10 nos Acoustic Sliding Doors** for runner Removal Gallery, 2000 MW Subansiri Hydro Power Project Assam, India location from **Alstom Projects India Limited, Vadodara**

DESIGN: - The Acoustic Sliding Door is designed to fulfill both acoustic and safety purpose and easy to operate. This gives full opening to Access the Runner Removal Gallery without any space occupancy and there is special arrangement of double leaf hinge type door for general and routine access. The material, used for door construction, is fire resistant, non combustible and eco-friendly. Its design is aesthetically good enough as per finish, shape & location.

Whole mechanism of Acoustic Sliding Door is simply designed to lift the door shutters with the help of synchronized hoists (placed on the top of MS Structure) and there is no extra noise generation while vertically up & down movements of the door shutter.

Entire Door System is designed to control the noise as per Noise Pollution Control Board norms.

Size : -

Upper Door Shutter Size: 10534 X 2750 X 100 mm

Lower Door Shutter Size: 10534 X 2750 X 100 mm

CONSTRUCTION: - Acoustic door shutters have been designed in such a way that can easily be lifted vertically with the help of synchronized electric wire rope hoist. Whole structure is made up of MS Rectangular Pipe to hold the weight of entire both door shutters and electric hoists.

There is a special arrangement of double leaf hinge type acoustic door in lower door shutter for routine access of workers to runner removal gallery.

TECHNICAL SPECIFICATION

Sliding Door Panel: -

The acoustic panel construction consists of 1.5 mm thick CRCA sheet laminated from both the side, offers the advantages of high shielding performance & durability. Total panel thickness is 100 mm filled with quality Rock Wool and insulation materials.

Hinge Door: -

Providing one double leaf hinge door of size 1.8 m x 2.0 m in bottom sliding door panel as inspection door with handle & lock etc. complete. The door is fitted with Neoprene gasket to avoid noise leakage from gap.

Guide Channels: -

Providing 'C' channel guide to slide door in vertical up/down direction, the door panel having roller at both side to easy slide. The both 'C' channel guide welded to MS structure for proper holding.

Ms Structure: -

The MS structure provided to hold hoist weight & to provide support for door sliding 'C' channels guide. The MS structure made out of MS Rectangular Pipe Size: 160 x 80 x 4 mm.

Door Stopper: -

Providing stopper at both side of opening for upper door to hold in position & lower shutter having hook to lift upper door hen door move in upward direction

WIRE ROPE HOIST & ACCESSORIES

GENERAL DESCRIPTION: -

Hoist Machinery

- Motor
- E.M. Disc / Shoe Brake
- Gear Box
- Rope Drum
- Rope
- Hook Block Assembly
- Guide

The actual configuration of the hoist would be general assembly drawing for.

PERFORMANCE: - Achieved 27 dB (A) noise reduction from inside to outside at a distance of 1 meter from runner Removal Gallery.