



ENVIROTECH SYSTEMS PVT. LTD.

(An ISO 9001:2008 Company)

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ISO 9001:2008 CERTIFIED ORGANISATION

CLIENT: - M/S Zuari Cement Limited

PROJECT: - Design, Manufacture, Supply, Installation & commissioning
Of Acoustic Enclosures (01 No.)

Envirotech Systems Pvt. Ltd. has received an order of design, manufacture, supply, installation & commissioning of **01 no. Acoustic Enclosure to cover Wagon Tipler from all four side & roof from** wall from Zuari Cement Limited., for cement grinding unit-Attipattu plant, Chennai location.

SITE CONDITION: - Client was setting up a cement grinding unit of 120 tph capacity, where the clinker will be ground in a ball mill. This ball mill was housed in a RCC building which is 3 side opened. The noise level at 1 mtr distance would be 120 db while mill running empty and 100 db in loaded condition. The mill building was located at a distance of 200 mtrs from the nearest habitat and 100 mtrs from the boundary. There was also one wagon tippler to unload the wagons loaded with clinker which is located at a distance of 25 mtrs from the nearest habitat. The noise level would be in the range of 110 db. Client request us to suggest the suitable system to control noise.

DESIGN & CONSTRUCTION: - The Acoustic Enclosure is customized and having base frame made out of ISMC 100 x 50 mm to hold acoustic panels. All acoustic panels are 100 mm thick with a solid CRCA exterior shell & inner shell of GI perforated sheet to absorb the noise generated by noise source. The panels are connected together by means of tongue & groove connection and held together rigidly by the use of self drilling sheet metal screw. The panel construction can be dismantled and re-erected. Two sides were fixed type and other two were openable type for maintenance purpose

SIZE: - 9000 x 9000 x 6000 mm (L x W x H)

PERFORMANCE: - After Providing the Acoustic Enclosure, Insertion loss was measured 28.8 dB (A) at one meter from Enclosure surface.