



ENVIROTECH SYSTEMS PVT. LTD.

(An ISO 9001:2008 Company)

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ISO 9001:2008 CERTIFIED ORGANISATION

CLIENT: - M/S IL& FS Rail Limited

PROJECT: - Polycarbonate Noise Barrier & Acoustic Panel

DESCRIPTION: - Supply & installation of Polycarbonate Noise Barrier at parapet wall and fixing of absorptive type acoustic panel to parapet wall to control noise escape from metro rail track. In entire project, 8.0 mm thick solid Polycarbonate sheet with 32 STC rating was used at parapet wall of Metro Rail to control noise escape from Metro Rail track. Absorptive type metallic acoustic panel was provided to inner side of parapet wall to absorb noise, generated from air compressor, engine wheel & track.

DESIGN: -

- Structure of Polycarbonate Noise Barrier was designed for wind pressure according to wind zone –IV.
- Also provided hand rail at top of the Noise Barrier at walk way.
- Polycarbonate sheet was fitted on ms pipe structure with aluminum pressure pad profile which has rubber gasket for Polycarbonate sheet gripping and to control noise leakage from joints.
- Polycarbonate Noise Barrier was warranted for 10 years.

Difficulties:

We have to calculate the wind pressure on proposed Noise Barrier at Track which was at a height of 10 meter from the ground level and this means any imbalance in calculation of wind pressure could cause of sever mishap.

The location was highly residential so it was main issue to complete the work without making any inconveniency and traffic hindrances. But our execute team has done a great job and completed the work according to schedule.

PERFORMANCE: - Specific noise of Metro Rail was measured 85 dB(A) while achieved 60 dB(A) outside the Noise Barrier at 6 meter distance.