



Customer: Clarke Energy India
Site: ONGC, Ankleshwar, India

DECIMIN equipments supplied :

Acoustic Wall & Ceiling Treatment, Acoustic Doors,
Acoustic Louvers, Acoustic Windows, Modular Acoustic Panels
Engine Exhaust Silencer + Spark Arrestor



This 3 x 1MW Natural Gas based Power Plant (GE Jenbacher Gas Engine) House was Designed for an Acoustical performance target of 75 dB(A) sound pressure level outside the Engine House at 1 meter distance.

The house admeasuring 27 meter Length x 17 meter Width x 6.3 meters Height was treated using Decimin modular pre-fabricated steel Tiling for the Wall and Ceiling. The Acoustic Double Leaf Door (for equipment entry) and Single Leaf Doors (for Personnel entry) were used.

In spite of the multiple gas engines running in a common house a performance of less than 75 dB(A) at 1meter distance was achieved.



Construction was also very fast, the entire treatment taking just four weeks to finish. Clarke Energy India also chose the modular construction approach because it gives them the flexibility to dismantle the structure and access the services if required.

The Wall & Ceiling modular panels were mock-assembled initially at Decimin's Pune plant to check flatness tolerances and a uniform look. While installing at the site care was taken to co-ordinate with Electrical, piping and other services and ensure best Aesthetics.

The Gas Engine exhaust gases are treated with vertically mounted Spark Arrestor with Silencer combination and provide a performance of 35 dBattenuation / performance. The silencers are manufactured in carbon-steel and stainless steel combination & are finished in high temperature aluminium paint.

This is not the first time Clarke Energy has trusted in Decimin's Acoustic products & Systems.

For more information about Decimin House Acoustics, please contact below mentioned address,

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