

foreseen. Intake louvers shall be the sand trap type and shall be sized and located to provide sufficient intake air for engine combustion and to provide the required airflow through the radiator. The air intake system shall be equipped with sound attenuator, intake louvers, pre-cleaner, dry air cleaner with changeable filter and service indicator to optimize changing of filters.

- E. The exhaust system shall be a Residential Type silencer including stainless flexible exhaust fitting. The weight of silencer shall not be supported by the engine. The size of the exhaust pipe shall be sufficient to ensure that exhaust pressure does not exceed the maximum limit specified by the manufacturer. All indoor exhaust piping shall be lagged to ensure that the surface temperature does not exceed 65 °C. The insulation shall not interfere with the flexible exhaust fittings. Exhaust piping, supported from the ceiling shall have a minimum clearance of 30 cm and shall be slanted for condensation drain away from the engine. Supports shall be the vibration isolating type.

1.2.24.6 Fuel Tank

- A. The Generator set shall have two fuel tanks, one with 3 days capacity installed on concrete foundation provided under suitable steel structure shed and other installed as part of generator with a storage capacity required for 12 hours run under full load. It shall be installed complete with strainer, drain cock, filling cap, air vent, fuel level indicator and piping to the engine.

1.2.24.7 Monitoring and Control of Generator

- A. Provisions shall be made to monitor all the parameters of Generator such as current, voltage, speed, oil pressure, and temperature etc. at display unit of MCC. Facility shall be provided for Manual switch 'OFF' and switch 'ON' of generator at MCC through selector switch, push buttons etc. in addition to automatic change over.

1.2.25 Signs, Labels, Equipment Identification

1.2.25.1 Material, Language of Labelling

- A. All labels shall be plastic or metal and shall have the text or symbol engraved. When text and background are made in different colours, a light colour shall be used for the background and a dark colour for the text.