d. AC - ammeter and Voltmeter with selector switch

e. DC - ammeter on battery charging system

f. Automatic voltage regulator

g. Start/stop push button

h. Visible and audible alarm system indicating:

i. High water temperature

j. Low oil pressure

k. Low fuel

l. Oil pressure gauge

m. Electrical shut-off shall be provided on the engine in case of low lubricating oil pressure, high water temperature and over speed.

n. An adjustable time delayed relay to delay the shutoff of the generator to preset value once the normal supply is restored.

1.2.24.5 Stationary Generator Set

A. Permanently installed generator dedicated to the plant shall provide power supply to the pumping station through automatic transfer switch provided in MCC. The MCC in this case shall have one incomer circuit breaker only and the same shall be powered by a common feed coming from the ATS panel. The changeover function shall be automatic from Mains to Generator upon failure of power and from Generator to Mains upon restoration of power.

B. The set shall be mounted on welded steel common bed-plate. Flexible connections shall be provided to all exhaust, air, fuel and water piping to avoid fracture due to vibration and to minimize conduction of noise.

C. Concrete foundation shall be designed to carry the load and shall be provided with proper vibration isolating material to separate the foundation from the surrounding structures. In addition to specifications mentioned elsewhere, the supply and installation shall include all power and control cabling between generator set and motor control panel.

D. The radiator shall be the engine mounted heavy duty tropicalised folded core type with blower type fan sized to maintain safe operation at 55 °C. Duct works with flexible connecting section between radiator and fixed exhaust louvers shall be