

- v) Supply of fuel from the main tank is ensured after taking the above reading.
- vi) Voltmeter and ammeter readings are noted down.
- vii) The engine is loaded by lowering the upper terminal in the water rheostat.
- viii) The required current reading is set.
- ix) All the above readings are noted down.
- x) The experiment is repeated for different current settings.
- xi) The readings are tabulated neatly.

Formulae:

- a) Brake Power (BP) = $[V \times I] / 1000$,kw
- b) Fuel consumption (FC) = $[20 \times 10^{-3} \times \text{sp.gr.} \times 3600] / t$,kg / hr
 where ,
 t = time taken for 20 cc of fuel consumption
 sp. gr. = specific gravity of diesel = 0.86
- c) Specific fuel consumption (SFC) = FC / BP ,kg / kw hr
- d) Heat input (HI) = $[FC \times CV] / 3600$,kJ / s
 where ,
 CV = Calorific value of diesel = 40,500 ,kJ/kg
- e) Brake thermal efficiency, η_b = $[BP / HI] \times 100$, %
- f) Mechanical efficiency, η_{mech} = $[BP / IP] \times 100$, %
 where,
 BP = Brake power , kw
 IP = Indicated power , kw
 $= BP + FP$
 FP = Frictional power , kw
 (to be determined from " BP vs FC " plot)
- g) Indicated thermal efficiency, η_i = $[IP / HI] \times 100$, %

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