

**GEAR PUMP TEST RIG (EE-1541)
(WITH A.C. MOTOR, 3 SPEEDS WITH STEP CONE PULLEY)**

Gear Pump Test Rig consists of a sump, a Gear pump, an AC motor and measuring tank. To measure the head, Pressure and Vacuum gauges are provided. To measure the discharge, a measuring tank is provided. Flow diversion system is provided to divert flow from sump tank to measuring tank and from measuring tank to sump tank. A valve is provided in pipeline to change the rate of flow.

SCOPE OF EXPERIMENTATIONS:

-) To determine the overall efficiency of Gear pump
-) To Plot Head Vs. Discharge, Pump efficiency Vs. Discharge

UTILITIES REQUIRED:

-) Water Supply.
-) Drain
-) Electricity 220V AC, Single Phase.
-) Space required: 1.6 x 0.6 m.



TECHNICAL SPECIFICATION:

-) Pump : 1 HP, 2800 RPM
-) Drive : AC Motor with step cone pulley arrangement for 3 Prefixed speeds.
-) Supply Tank : Capacity 60 Ltrs.
-) Measuring Tank : Capacity 40 Ltrs.
-) Control panel : with required electrical instrumentation
-) Stop Watch : Electronic
-) Tanks will be made of Stainless Steel.
-) The whole set-up is well designed and arranged in a good quality painted structure.