



Since 2011

## FOUR STROKE SINGLE CYLINDER DIESEL ENGINE MECHANICAL LOADING ARRANGEMENT FOR RETARDATION TEST RIG

**Make : MMI**  
**Model : MMI ICE 015**

### Engine :

Engine Make : KIRLOSKAR TV1  
Power : 7 HP @ 1500 RPM  
Displacement : 661cc  
Engine type : 4 stroke single  
cylinder direct  
injection with 17.5:1 CR



### Mechanical Load (Spring Balance Setup)

- One number of brake drum with spring balance set up coupled with engine shaft. Spring balance will indicate the load in kg
- 2 HP DC motor will be attached to run the engine automatically
- Electrical clutch will be attached to engine crank shaft to motor end to conduct the retardation test to using ON/OFF switch

Temperature measurement : 7 No's of K type thermocouple with 8 channel temperature indicator  
Speed measurement : PNP type RPM sensor and speed indicator provided  
Fuel measurement : Fuel tank with Burette will be provided  
Air flow measurement : U manometer with air tank will be provided  
Testing panel : MS Powder coated rigid engine testing panel  
Engine frame : MS Heavy duty engine test frame will be provided

### Experiment performance :

- Retardation test • Load measurement • Air flow measurement • Heat balance measurement • Fuel flow measurement • Plot brake power/brake thermal efficiency
- Plot brake power/specific fuel consumption • Plot brake power/mechanical efficiency

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## MICRO MECH INSTRUMENTS

An ISO 9001 : 2015 Certified Company

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