



**INDRAMARSHAL<sup>®</sup>**

**WATER COOLED DIESEL ENGINE FOR MULTI AGRICULTURAL APPLICATIONS**

**IMS 1**

**IMK 1**



**Improving Agriculture, Improving Lives.**

## ENGINE SPECIFICATION

▶ **TYPE :**

Vertical, single cylinder, water-cooled, totally enclosed, compression ignition, four-stroke cycle, cold starting diesel engine.

▶ **COMBUSTION :**

Open type combustion chamber in an aluminium alloy piston, in combination with long-stem nozzle, resulting in low fuel consumption and easy starting.

▶ **FUEL SYSTEM :**

Fuel is supplied to the fuel pump by gravity feed from the fuel tank & through efficient fuel filter.

▶ **FUEL TANK CAPACITY :**

11.5 Ltr.

▶ **LUBRICATION :**

Engine moving parts are lubricated partly by force feed and partly by splash lubrication. By-pass filter is provided to clean the lubricating oil. Lube oil is supplied under pressure by a gear type lub .oil pump.

▶ **LUBE OIL SUMP CAPACITY :**

3.75 Ltr. at higher level mark on dipstick.

▶ **COOLING :**

Engine cooling is arranged by run-through water supply or radiator/tank cooling.

▶ **GOVERNING :**

Class 'B1' type.

▶ **ROTATION :**

Standard rotation is clockwise from the flywheel end. Engines with anti-clockwise rotation can be built against specific requirement.

▶ **STARTING :**

Hand start.

▶ **DRIVE :**

Standard power take off is from flywheel side. In case of special requirement, power take off from gear end at half or full engine speed, can be provided.

▶ **STANDARD EQUIPMENT :**

Starting handle, exhaust silencer, air cleaner, set of tools.

## TECHNICAL DATA

Engine Model	IMS1	IM K1
No. of Cylinders	1	1
Bore x Stroke (mm)	87.5x110	95X110
Cubic Capacity (Ltr.)	0.661	0.780
Compression ratio	17.5:1	17.5:1
Rated output Kw (HP) @RPM as per IS:11170:1985	5.9(8.0)@1800 RPM	5.9(8.0)@1500 RPM
SFC (gm/kw-h)	251	251
Overall dimensions of standard engine		
length (mm)	617	617
width (mm)	532	532
height (mm)	877	877
Crankshaft center height (mm)	203.2	203.2