

STANDARD & LABELING PROGRAM FOR DIESEL ENGINE DRIVEN MONOSET PUMPS






Agriculture sector in India is largely dependent on Diesel Engine Driven pumps for irrigation where continuous electric supply is not available. It is reported that approx.3% of the total diesel consumption (68.4 MMT in 2013-14) has been used for irrigation purposes by agri pump sets. Majority of the Diesel Engine Driven Pump sets used in farms have efficiency of about 21% only.

PCRA in association with BEE (Bureau of Energy Efficiency) benchmarked energy efficiency standards for Diesel Engine Driven Monoset Pumps (2 -10 HP) for Agricultural purposes. This benchmarking initiative is expected to improve the fuel efficiency from 21 % up to 28% for new monoset pumps manufactured post implementation of this program. Star Labeled products shall provide informed choice to the customer for purchase of energy efficient products resulting in reduced Diesel consumption.

Post approval of Ministry of Power, S&L Program is under implementation. Manufacturers, importers and persons in trade can register their products for Star Rating under Standard & Labeling Program of BEE. Approved Star Rating plan of the S&L Program is as under:

Star Rating	Specific Fuel Consumption (SFC) in g/h/m/l/s of pump at duty point w.r.t. SFCmax** (as per IS 11501: latest)
1 Star	> 0.90 SFCmax to <= 1.00 SFCmax
2 Star	> 0.80 SFCmax to <= 0.90 SFCmax
3 Star	> 0.70 SFCmax to <= 0.80 SFCmax
4 Star	> 0.60 SFCmax to <= 0.70 SFCmax
5 Star	<= 0.60 SFCmax

Energy efficiency star label shall be as cut to outlines shown below

	Specific Fuel Consumption of monoset pump* : g/h/m/l/s		Manufacturers Logo if available	
	Diesel Engine Driven Monoset Pumps for Agricultural Purpose			
Pump Type _____	Pump SLNo. _____	Model No./Year _____	kW/HP _____	
Suction (size) _____ mm	Delivery (size) _____ mm	Impeller Dia _____ mm		
Full Load Speed _____ rpm	Capacity (Range) _____ (liters/s)			
Duty Point: Head: _____ m	Discharge: _____ l/s			
Fuel Consumption (at Duty Point) _____ cc/hr (at Fuel Density _____ g/cc)				
* Specific Fuel Consumption (SFC) at Duty Point _____ g/h/m/l/s				
Name of the manufacturer with complete address				
Label Period: In Association with PCRA				
*Under test conditions when tested in accordance with relevant IS XXXX the actual energy consumption will depend on how the equipment is being used				

For complete details of the S&L Program, visit www.beeindia.in

Click this link to “Search & Compare” BEE Star Label awarded Diesel Engine Driven Monoset Pumps