



**SPECIFICATION FOR AUTOMOTIVE DIESEL FUEL  
(BS IV)  
(IS 1460 – 2005 with Amendment 2 March 2010)**

Sl.No.	PARAMETER	SPECIFICATION	STD.METHOD	Typical Analysis
1	Acidity ,Inorganic, mg KOH/g	Nil	IS 1448, P: 2	Nil
2	Acidity ,Total, mg KOH/ gm	To Report	IS 1448, P: 2	0.05
3	Ash, percent by mass, Max	0.01	IS 1448, P: 4/ ISO 6245	< 0.01
4	Carbon residue (Ramsbottom) On 10% Residue, percent by mass, Max	0.30	IS 1448, P: 8 / ISO 10370	0.10
5	Cetane Number, Min	51	IS 1448, P: 9 / ISO 5165	53
	Cetane Index, Min	46	ASTM D 4737/ISO 4264	55
6	Pour Point, °C, Max	3°C, for winter 15°C, for summer	IS 1448, P: 10/ D5949 OR D 5985 OR D 5950	-10 -10
7	Copper strip Corrosion for 3 hours @ 100 deg. C	Not worse than No.1	IS 1448, P: 15 / ISO 2160	No.1
8	Distillation, % v/v, recovered: at 360°C, Min	95.0	IS 1448, P: 18 /ISO 3405	96.0
9	Flash Point (Abel) deg. C, Min	35	IS 1448, P: 20	40
10	Kinematic Viscosity, cSt @ 40 deg. C	2.0 to 4.5	IS 1448, P: 25 /ISO 3104	3.0
11	Total Contamination, mg/m <sup>3</sup> , Max	24	EN 12662	0.9
12	Density @ 15 deg. C kg/m <sup>3</sup>	820-845	IS 1448, P: 16 OR P:32/ D 4052 / ISO 3675 OR ISO 12185 D 4294/P:34 /ISO 20846 OR ISO 20847 or ISO 20884 /P:83 / D 5433/ D 2622 /	825
13	Total Sulphur, mg/Kg, Max	50	IS 1448, P: 16 OR P:32/ D 4052 / ISO 3675 OR ISO 12185 D 4294/P:34 /ISO 20846 OR ISO 20847 or ISO 20884 /P:83 / D 5433/ D 2622 /	40
14	Water content, mg/ kg , Max	200	ISO 12937	150
15	Cold Filter Plugging Point (CFPP) °C, Max	6°C, for winter 18°C for Summer	IS 1448, P: 110/ D6371	-6.0 -6.0
16	Oxidation Stability, g/m <sup>3</sup>	25 Max.	ASTM D 2274	9.4
17	Polycyclic aromatic hydrocarbons (PAH), percent by mass, Max	11	IP 391 or EN 12916	1.0
17	Lubricity corrected wear scar diameter(wsd 1.4) at 60°C, microns , Max	460	ISO 12156-1	420
18	Oxygen Content, percent by mass, Max	0.6	Annex B	NA

Winter: November to February. Contains no Bio Diesel. Refer IS 1460 2005 Specification with amendment No 2 for further details.