HIGH SPEED DIESEL
BHARAT STAGE IV

TEST	METHOD	SPECIFICATION
Density @ 15°C, kg/m3 (1)	IS 1448 P :16	820 to 845
Colour (ASTM) *	ASTM D 1500	Max. 5
Water Content, mg/Kg	ISO 12937	Max. 200
Flash Point (Abel), °C	IS 1448 P :20	Min. 35
Viscosity (Kinematic)@ 40°C, cSt	IS 1448 P :25	2.0 to 4.5
Pour Point, °C (2)	IS 1448 P :10	Max. 3 (Winter)
		Max. 15 (Summer)
Copper Strip Corrosion(3 hr. @ 50°C)	IS 1448 P :15	Not worse than No. 1
Total Sulphur, mg/Kg	ASTM D : 2622/5453	Max. 50
Acidity (Total), mg KOH/g	IS 1448 P :2	To report
Acidity (Inorganic)	IS 1448 P :2	Nil
Ash, % mass	IS 1448 P :4	Max. 0.01
Carbon residue (Ramsbottom) on 10% residue, % mass. (3)	IS 1448 P :8	Max. 0.30
CFPP, °C(2)	IS 1448 P :110	Max. 6 (Winter)
		Max. 18 (Summer)
Cetane Number (4)	IS 1448 P :9	Min. 51
Cetane Index (4)	ASTM D 4737	Min. 46
Distillation :	IS 1448 P :18	
Recovery @ 360°C, % v/v		Min. 95
Lubricity wsd @ 60°C, microns	ISO 12156-1	Max. 460
Total contaminations, mg/kg	EN 12662	Max. 24
Oxidation stability, g/m^3	ISO 12205 / ASTM D 2274	Max. 25
Polycyclic Aromatic Hydrocarbons (PAH), % mass.	IP 391	Max. 11

Conforms to BIS : 1460:2005 (Amendment No.2 March 2010) specifications for High Speed Diese

NOTES:

(1) For fuel processed from Assam crude, the density range is relaxed to 820-855.
(2) Winter shall be the period from November to Februrary in central and northern plains of India
(3) This limit is applicable prior to addition of ignition improvers, if used. In case a value
(4) For Fuel processed from Assam crude, Cetane number and Cetane index is relaxed by 3
* In addition to BIS specification BPCL(R) controls this parameters for better customer