



EASTERN REFINERY LIMITED

SPECIFICATION OF HIGH SPEED DIESEL (HSD)

(AS APPROVED BY BSTI (REVISED ON MARCH, 2002))

HIGH SPEED DIESEL (HSD)

S N	TESTS	METHOD	LIMIT
1	Density at 15° C, kg/L	ASTM D 1298	Min. 0.820 Max. 0.870
2	Color, ASTM	ASTM D 1500	Max. 3.0
3	Neutralization Value Strong Acid No, mg KOH/g Total Acid No, mg KOH/g	ASTM D 664/ ASTM D 974	Nil Max. 0.2
4	Ash, % mass	ASTM D 482	Max. 0.01
5	Carbon Residue (Conradson) On 10% bottom, % mass	ASTM D 189	Max. 0.2
6	Cetane number	ASTM D 613	Min. 45
7	Cetane Index(calculated)	ASTM D 976	Min. 45
8	Pour Point, °C	ASTM D 97	Max. 9(Winter*) Max.12(Summer*)
9	Copper Strip Corrosion (3 hours at 100°C)	ASTM D 130	Max. No. 1
10	Flash Point PM(cc)/Abel, °C(°F)	ASTM D 93 / IP 170	Min. 32(90)
11	Kinematic Viscosity at 38°C, cst	ASTM D 445	Max. 9.0
12	Sulfur, total, % mass	ASTM D 4294/ ASTM D 1552	Max. 0.5
13	Sediment, % mass	ASTM D 473	Max. 0.01
14	Water Content, % vol.	ASTM D 95	Max. 0.1
15	Distillation: 90% vol. recovery, °C	ASTM D 86	Max. 375
* Winter shall be the period from November to February (both months inclusive) and rest of the months of the year shall be called as summer.			