

MPR No. 20200598

BHEL,HEEP,Haridwar,India

**Pre qualification requirement for vendors for purchase of Diesel Oil-High Speed (HSD)**

Vendor should meet the following requirement:

"The bidder shall be a producer having experience of minimum 5 years in production of HSD."

अनिल  
30/07/21  
(A.K.Sonkar)  
Engineer (DG)

Ratnesh Kumar  
Dy.Mgr (DG)

30/07/21

M.C.Pandey  
DGM (ESX & DG)

30/07/21



## CORPORATE PURCHASING SPECIFICATION

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### DIESEL OIL - HIGH SPEED

#### 1.0 GENERAL:

The material shall be hydrocarbon oils derived from petroleum with which small amounts of hydro carbon or non-hydro carbon additives may have been incorporated to improve ignition or other characteristics. The material shall be free from grit, suspended matter and other invisible impurities. The approximate calorific value of the fuel may be order of 10,500 kcal/kg.

#### 2.0 COMPLIANCE WITH NATIONAL STANDARDS:

The diesel oil shall comply with the requirements of the following national standards and also meet the requirements of this specification:

IS: 1460-2005, Gr: Bharath Stage II : Automotive Diesel Fuels – Specification.

#### 3.0 TEST SAMPLES:

Representative samples shall be as per IS: 1447

#### 4.0 CHEMICAL PROPERTIES :

When tested in accordance with the relevant parts of IS: 1448 shown against each, the material shall show the following properties:

- |      |   |  |
|------|---|--|
| 4.1  | Inorganic Acidity                       | : Nil.   |
| 4.2  | Total Acidity                           | : 0.2 mg of KOH/g of the oil max.  |
| 4.3  | Ash (IS:1448 Part 4)                    | : 0.01 % by mass, max.   |
| 4.4  | Pour Point (IS:1448 Part 10)            | : 3°C, max. in winter and 15°C, max. in summer                                       |
| 4.5  | Copper Strip Corrosion (Part 15)        | : Not worse than No. 1 at 100°C for 3 hours.   |
| 4.6  | Distillation (IS:1448, Part 18)         | : 85% by volume recovery at 350°C, min. and<br>95% by volume recovery at 370°C, min. |
| 4.7  | Flash Point (Abel) (IS: 1448 Part 20):  | 35°C, min.   |
| 4.8  | Kinematic Viscosity (IS: 1448 Part 25): | 2 to 5.0 cst at 40°C.  |
| 4.9  | Sediment (IS: 1448 Part 30)             | : 0.05% by mass, max.  |
| 4.10 | Water Content (IS: 1448 Part 40)        | : 0.05% by volume, max.  |

Revisions:

As per Clause No.41.6 of MOM of MRC-(CPO+NM)

APPROVED:

INTERPLANT MATERIAL RATIONALISATION  
COMMITTEE – MRC(CPO+NM)

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4.11 Total Sediments (Test method Appendix A of IS: 1460): 0.05 mg.

4.12 Density at 15°C: 820 - 860 kg/m<sup>3</sup>

### 5.0 TYPE TESTS:

5.1 Carbon Residue (Ramsbottom) (IS: 1448 Part 8): 0.3% by mass, max.

5.2 Cetane Number (IS: 1448 Part 9): 48 min., for general applications.

5.3 Total Sulphur (IS: 1448 Part 33): 500 mg/kg.

### 6.0 TEST CERTIFICATES:

Three copies of test certificates shall be supplied along with each consignment. In addition, the supplier shall ensure to send one copy of the test certificate along with each consignment for quick clearance of material.

### 7.0 PACKING & MARKING:

As per clause 4 of IS: 1460

### 8.0 ENVIRONMENTAL REQUIREMENTS:

The supplier shall furnish Material Safety Data Sheet (MSDS) covering all information relating to human safety and environmental impacts of the hazardous materials particularly during their transportation, storage, handling and disposal along with each supply.

Each container shall be marked with corresponding symbol and minimum worded cautionary notice for flammable / corrosive / toxic / harmful / irritant and oxidizing etc. as applicable

### 9.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1) IS : 1447      2) IS:1448