



भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226 011
EPBX (0522) 2451200
Fax (0522) 2458500

Government of India-Ministry of Railways
Research Design & Standards Organisation
Lucknow - 226 011
DID (0522) 2450115
DID (0522) 2466310



No: ED.6.16.4 Vol VIII

Date: 01.07.2015

Chief Mechanical Engineer
All Indian Railways

Sub: Testing of biodiesel at RCD/RDI.

Ref: (i) Letter no. SCR: TP.60/1-Bio-diesel dated 08/05/2015


(ii) Letter no. IROAF/2A/CME/BD/RDSO dated 28/05/2015.

(iii) RDSO Letter nos. ED.6.16.4 (Vol VII) dated 07/01/2015 and ED.6.16.4 Vol VIII dated 05/03/15.

RDSO vide ref (iii) had indicated tests at consignee end for biodiesel on receipt. However some Railways have cited inability to do the same due to lack of requisite infrastructure/trained manpower.

In view of above Railways may carry similar tests on biodiesel as being done for HSD on receipt at an RCD, for a period of six months. A WTC be obtained from the manufacturer with each lot, that biodiesel as received, meets the specified quality parameters as per purchase orders placed.

It is advised that requisite infrastructure to conduct tests at consignee end be developed by Railways within next six months. An indicative list of apparatus required at consignee end is enclosed at Annexure-1.


(R. N. Misra)
Sr.ED (CNG)

C/- EDME/Traction/Railway Board: for information pl.
✓ CAO/IROAF: for information pl.
Sr.ED/M&C/RDSO: for information pl.

Suggested apparatus required at Consignee end –

| SN | Characteristic | Apparatus name |
|----|------------------------|---|
| 1. | Density | Density meter |
| 2. | Kinematic Viscosity | Viscosity Meter |
| 3. | Flash point | Pensky Martin Closed Cup Test apparatus |
| 4. | Water Content | Karl Fischer titration apparatus |
| 5. | Copper strip corrosion | Copper strip corrosion test apparatus |