



**GEO-CHEM LABORATORIES PVT. LTD.**  
 36, Raja Industrial Estate,  
 Purushottam Kheraj Marg,  
 Mulund (W), Mumbai 400080, India.  
 Tel: +91 22 67974999 Fax: +91 22 67974616  
 Email: mulundlab@geochemgroup.com

International  
 Independent Inspection  
 &  
 Testing Company

**TEST CERTIFICATE**

ANALYSIS NO.: PET/11/03/001048  
 DATE : 31/03/2011

PARTY'S NAME & ADDRESS : SHREENIWAS INNOVATIONS PVT. LTD.  
 NASHIK.  
 REF. NO. AND DATE : LETTER DATED 23/03/2011  
 SAMPLE RECEIVED ON : 25/03/2011  
 DATE OF ANALYSIS : 25/03/2011 - 31/03/2011  
 SAMPLE DESCRIBED AS : FUEL ADDITIVE (DIESEL + ADDITIVE)  
 TESTED TO SPECIFICATION : NIL  
 STAMPED BY/SEAL : NIL  
 ID MARK : NIL

<b>TEST</b>	<b>METHOD/TECHNIQUE</b>	<b>RESULT</b>	<b>UNIT OF MEASURE</b>
GROSS CALORIFIC VALUE	ASTM D - 4809	11145	kcal/kg
SULPHUR (S)	ASTM D - 3120	337	ppm
ASH CONTENT	ASTM D - 482	<0.01	% wt.
WATER CONTENT	ASTM D - 95	<0.05	% vol.
COPPER STRIP CORROSION	ASTM D - 130	1b	---
DENSITY @ 15°C	ASTM D - 1298	0.8150	gm/cc
KINEMATIC VISCOSITY @ 40°C	ASTM D - 445	2.61	cst.
FLASH POINT	IP - 170	42	°C
MICRO CARBON RESIDUE (ON 10% BOTTOM)	ASTM D - 4530	0.13	% wt.
ASTM COLOUR	ASTM D - 1500	L1.0	ASTM
SEDIMENTS	ASTM D - 473	<0.05	% wt.
POUR POINT	ASTM D - 97	-3	°C
CLOUD POINT	ASTM D - 2500	+1	°C
ACID NUMBER	ASTM D - 664	0.10	mg KOH/gm

**ANALYSIS NO. PET/11/03/001048 DATED 31/03/2011**

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**PROFORMA NO. : GCLPL/QF/5.10/02**

**ISSUE NO.: 6**

**REVISION NO.:0**

1. Test Results related only to the sample (s) tested.
2. Test certificate in full or part shall not be reproduced unless written permission is obtained from M/s. Geo-Chem Laboratories (P) Ltd.

This inspection / testing has been performed to the best of our ability and our responsibility is limited to proven negligence. This certificate, which is issued on conditions stipulated overleaf, reflects our findings at the time and place of inspection / testing and does not relieve parties from their contractual obligations. Samples will be retained by us for a period of thirty days only, unless specific instructions to the contrary are received.



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<u>TEST</u>	<u>METHOD/TECHNIQUE</u>	<u>RESULT</u>	<u>UNIT OF MEASURE</u>
<b><u>DISTILLATION :</u></b>	ASTM D - 86		
INITIAL BOILING POINT		135	°C
5%		162	°C
10%		180	°C
20%		210	°C
30%		235	°C
40%		252	°C
50%		273	°C
60%		290	°C
70%		306	°C
80%		325	°C
90%		350	°C
95%		364	°C
FINAL BOILING POINT		366	°C
TOTAL RECOVERY		98	% vol.
RESIDUE		1.0	%
LOSS		1.0	%

For GEO-CHEM LABORATORIES (P) LTD.

SAMPLE NOT DRAWN BY  
 GEO-CHEM LAB

MANGESH SHINDE  
 DY. MANAGER  
 ENERGY DEPARTMENT

RG

**ANALYSIS NO. PET/11/03/001048 DATED 31/03/2011**

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**TEST CERTIFICATE**

ANALYSIS NO.: PET/11/03/001047  
 DATE : 31/03/2011

PARTY'S NAME & ADDRESS : SHREENIWAS INNOVATIONS PVT. LTD.  
 NASHIK.  
 REF. NO. AND DATE : LETTER DATED 23/03/2011  
 SAMPLE RECEIVED ON : 25/03/2011  
 DATE OF ANALYSIS : 25/03/2011 - 31/03/2011  
 SAMPLE DESCRIBED AS : FUEL ADDITIVE (FURNACE OIL + ADDITIVE)  
 TESTED TO SPECIFICATION : NIL  
 STAMPED BY/SEAL : NIL  
 ID MARK : NIL

<u>TEST</u>	<u>METHOD/TECHNIQUE</u>	<u>RESULT</u>	<u>UNIT OF MEASURE</u>
GROSS CALORIFIC VALUE	ASTM D - 4809	10065	kcal/kg
SULPHUR (S)	ASTM D - 129	3.06	% wt.
ASH CONTENT	ASTM D - 482	0.04	% wt.
WATER CONTENT	ASTM D - 95	<0.05	% vol.
DENSITY @ 15°C	ASTM D - 1298	0.9465	gm/cc
KINEMATIC VISCOSITY @ 50°C	ASTM D - 445	204	cst.
FLASH POINT	ASTM D - 93	100	°C
MICRO CARBON RESIDUE	ASTM D - 4530	15.7	% wt.
SEDIMENTS	ASTM D - 473	0.05	% wt.
ASPHALTENES	ASTM D - 6560	7.4	% wt.
POUR POINT	ASTM D - 97	+6	°C
ACID NUMBER	ASTM D - 664	0.12	mg KOH/gm

For GEO-CHEM LABORATORIES (P) LTD.

SAMPLE NOT DRAWN BY  
 GEO-CHEM LAB

  
 MANGESH SHINDE  
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