

अंतर्राष्ट्रीय ऑटोमोटिव प्रौद्योगिकी केन्द्र
INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY
[A Division of NATRiP Implementation Society (NATIS), Govt. of India]

Non – Transferable

TEST REPORT
(DEVELOPMENT TEST)

Test Report No:

C	D	0	F	R	0050
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Date: 09.03.2022

- 1.0 **NAME AND ADDRESS OF THE CUSTOMER** : M/s. Shreenivas Innovation Pvt. Ltd.
Survey No.143/4, Belgoan Dhaga Road, Dange Mala, At Post-Vilholi, Tal Dist Nashik, Pin - 422010 Maharashtra, India.
- 2.0 **CUSTOMER REFERENCE** : Docket ID: CCDSNWSRAFTL155784
- 3.0 **DESCRIPTION OF DEVICE UNDER TEST (DUT)** :
- Name of Test Component : TWO WHEELERS (02 Nos) & PASSENGER CAR (01 Nos)
Refer clause of 1.5 for details
- No. of Test Component : NA
- ICAT Identification Nos. : NA
- 4.0 **DATE OF RECEIPT OF SAMPLE** : Test performed at customer's end
- 5.0 **CONDITION OF SAMPLE** : OK Received
- 6.0 **TEST OBJECTIVE** : This test shall verify that the fuel consumption by addition of "Bio Mileager"
- 7.0 **INTRODUCTION** : Refer Annexure - I
- 8.0 **TEST ROUTE** : Refer Annexure - II
- 9.0 **TEST OBSERVATION** : Refer Annexure - III
- 10.0 **FUNCTIONAL VERIFICATION** : Not Applicable
- 11.0 **TEST CONCLUSION** : NA
- 12.0 **TEST LOCATION** : Nashik, Maharashtra, India.
- 13.0 **DATE OF PERFORMANCE OF TEST** : 10-02-22 & 15-02-22

DISCLAIMER

This test report pertains only to the test samples / components / parts/ assemblies/ gensets/ materials /fuels/chemicals/engines/vehicles/Agri. Tractors etc. actually tested /witnessed / verified by ICAT in the presented condition based on the documents / information produced / submitted by the customer. The issuance of this test report alone does not indicate any measure of approval, certification, supervision, COP, control of quality surveillance by ICAT of the test samples / items/ components. No extract, abridgment or abstraction from this test report may be published or used to advertise the product without the written consent of the Director, ICAT, who reserves the absolute right to agree or reject all or any of the details of any items of publicity for which consent may be sought. ICAT is in no way responsible for any misuse or copying of any design in connection with entire vehicle / components / systems and assemblies. Breach of any statutory provisions, of Indian laws or laws of other countries, will be sole responsibility of the customer. ICAT shall not be liable for any claims or damages made by the customer, whatsoever. The customer shall alone be liable for the same and undertakes to indemnify ICAT in this regard. Further, ICAT has the right to initiate cancellation / withdrawal of the certificate / report issued, in case of any fraud, misrepresentation, when it comes to the knowledge of ICAT. The appropriate local court at Gurgaon shall have the jurisdiction in respect of any dispute, claim or liability arising out of this report.

Prepared By	Checked By	Approved By	
			
NILESH MARNE Asst. Manager	SAMIR SHIKALGAR Asst. General Manager	PAMELA TIKKU Sr. General Manager	

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Annexure I

- **Introduction**
 - Shreeniwas Innovation Pvt. Ltd. approached to ICAT, Manesar to evaluate fuel economy with and without additive “Bio Mileager” on gasoline two wheeler vehicles (With Gear & without Gear) and one passenger car Diesel vehicle.

- **Test Objective**
 - To evaluate effect / impact on fuel economy by addition of “Bio Mileager” on two no’s of gasoline two wheeler vehicles & passenger car diesel vehicle

- **Test Procedure**
 - Shreeniwas innovation Pvt. Ltd has submitted the two gasoline two wheeler (with & w/o gear)& passenger car diesel vehicle.
 - Following are the check points during vehicle inspection (before test) - Leakage, all wheel free rolling, engine oil level, transmission oil level, Tyre pressure as per OEM specification.
 - Fuel consumption test was carried out by using ‘Dry to dry tank method’ in unladen plus driver weight condition.
 - After preparation (as mentioned above) of all vehicles, ensured the vehicle fuel tank was empty & commercial fuel was filled in it.
 - Carried out test trail with & without additive as per decided quantity - 1 liter fuel for gasoline 2W vehicles & 3 liter fuel for diesel 4W vehicle. 2ml of “Bio Mileager” additive was added for 1Liter of fuel.
 - Test the vehicle as per test matrix (Table 01) and calculate the fuel consumption.

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Asst. Manager		Asst. General Manager	Page 2 of 11 [155784]

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Annexure I (Continue)

- Test Matrix

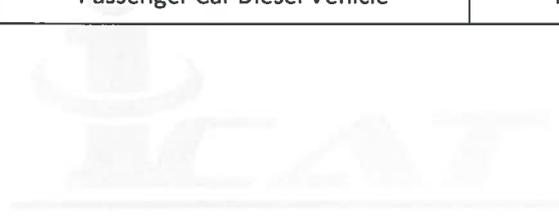
Table 1 Test Matrix for Each Vehicle

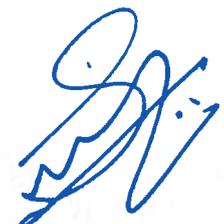
SR NO	TEST DETAILS	TEST CONDITION	NO OF TRIALS
1	Fuel consumption measurement in normal driving practice on fixed route (Refer Table 3)	Without fuel additive	2
2	Fuel consumption measurement in normal driving practice on fixed route (Refer Table 3)	With fuel additive (Bio Mileager)	2

- Test Vehicle details

Table 2 Vehicle Configurations

SR NO	Vehicle Name	Vehicle Configurations	Vehicle Category	Displacement
1	VEHICLE 01	Two-wheeler Without Gear Gasoline Vehicle	Scooter	109.19 CC
2	VEHICLE 02	Two-wheeler With Gear Gasoline Vehicle	Motorcycle	97.2 CC
3	VEHICLE 03	Passenger Car Diesel Vehicle	Hatchback	1405 CC



<p>Prepared By</p> <div style="text-align: center; height: 100px;">  </div> <p>NILESH MARNE Asst. Manager</p>		<p>Checked By</p> <div style="text-align: center; height: 100px;">  </div> <p>SAMIR SHIKALGAR Asst. General Manager</p>	<p>Page 3 of 11 [155784]</p>
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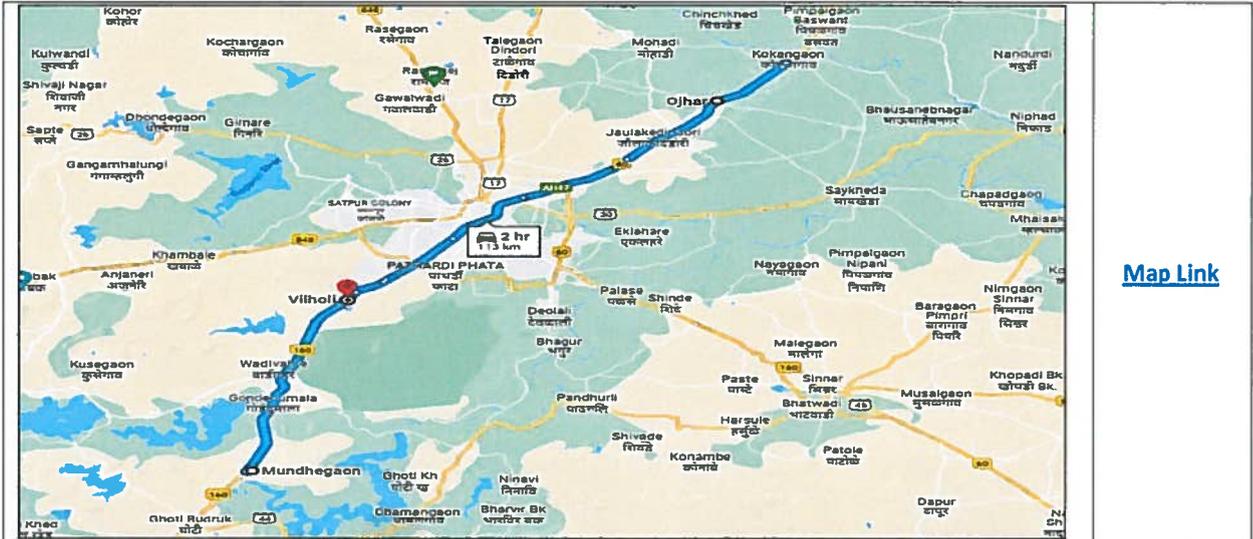
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Annexure II

2. Test Route

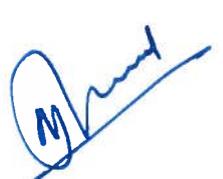
Table 3 Test Route



[Map Link](#)



TEST ROAD SURFACE & TRAFFIC CONDITIONS

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<p>NILESH MARNE Asst. Manager</p>		<p>SAMIR SHIKALGAR Asst. General Manager</p>	<p>Page 4 of 11 [155784]</p>

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Annexure III

3. TEST OBSERVATION

Table 4 TEST OBSERVATION

VEHICLE 01 (Scooter -Without Gear Gasoline - 109.19 CC)								
Trials	Without Additives				With Additives			
	Start ODO	End ODO	Total	FE*	Start ODO	End ODO	Total	FE*
	(km)	(km)	(km)	(km/l)	(km)	(km)	(km)	(km/l)
Run 01	28339.2	28378.3	39.1	39.1	28433.3	28493.6	60.3	60.3
Run 02	28378.3	28418.4	40.1	40.1	28493.6	28559.2	65.6	65.6
VEHICLE 02 (Motorcycle -With Gear Gasoline - 97.2 CC)								
Trials	Without Additives				With Additives			
	Start ODO	End ODO	Total	FE*	Start ODO	End ODO	Total	FE*
	(km)	(km)	(km)	(km/l)	(km)	(km)	(km)	(km/l)
Run 01	875.8	924	48.2	48.2	972.8	1046.8	74	74
Run 02	924	972.8	48.8	48.8	1046.8	1125.5	78.7	78.7
VEHICLE 03 (Passenger Car Diesel - 1405 CC)								
Trials	Without Additives				With Additives			
	Start ODO	End ODO	Total	FE*	Start ODO	End ODO	Total	FE*
	(km)	(km)	(km)	(km/l)	(km)	(km)	(km)	(km/l)
Run 01	1620.9	1675.1	54.2	18.1	1736.6	1826.3	89.7	29.9
Run 02	1675.1	1730.4	55.3	18.4	1826.3	1914.1	87.8	29.3

***Note:** These results are with 'Dry to Dry tank' method on pre-defined route with limited fuel. For accurate readings, it is proposed to do the test in laboratory as per Indian Driving Cycle, where actual fuel economy and its impact on emission parameters can be analyzed.

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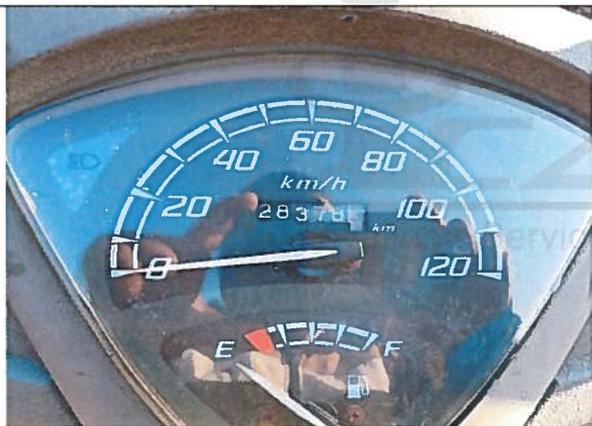
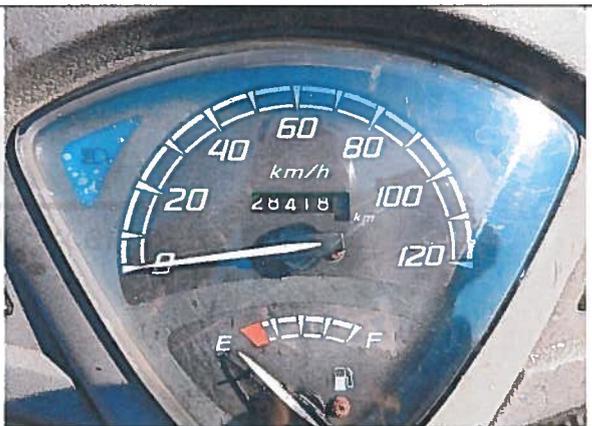
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Annexure III (Continue)

- TEST OBSERVATION - ODO READING PHOTOS

VEHICLE 01 - Without Additives	
	
TEST 01 - Start ODO	TEST 01 - End ODO
	
TEST 02 - Start ODO	TEST 02 - End ODO

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Annexure III (Continue)

VEHICLE 01 - With Additives

 <p style="text-align: center;">Run 01 - Start ODO</p>	 <p style="text-align: center;">Run 01 - End ODO</p>
 <p style="text-align: center;">Run 02 - Start ODO</p>	 <p style="text-align: center;">Run 02 - End ODO</p>

<p>Prepared By</p> 		<p>Checked By</p> 
<p>NILESH MARNE Asst. Manager</p>		<p>SAMIR SHIKALGAR Asst. General Manager</p>

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Annexure III (Continue)

- TEST OBSERVATION - ODO READING PHOTOS

VEHICLE 02 - Without Additives	
	
Run 01 - Start ODO	Run 01 - End ODO
	
Run 02 - Start ODO	Run 02 - End ODO

<p style="text-align: center; font-size: small;">Prepared By</p> <div style="text-align: center; height: 100px;">  </div>		<p style="text-align: center; font-size: small;">Checked By</p> <div style="text-align: center; height: 100px;">  </div>	
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Annexure III (Continue)

VEHICLE 02 - With Additives



Run 01 - Start ODO



Run 01 - End ODO



Run 02 - Start ODO



Run 02 - End ODO

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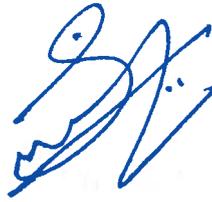
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Annexure III (Continue)

- TEST OBSERVATION - ODO READING PHOTOS

VEHICLE 03 - Without Additives	
	
Run 01 - Start ODO	Run 01 - End ODO
	
Run 02 - Start ODO	Run 02 - End ODO

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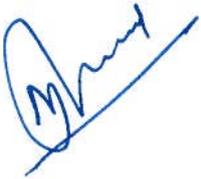
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Annexure III (Continue)

VEHICLE 03 - With Additives

	
Run 01 - Start ODO	Run 01 - End ODO
	
Run 02 - Start ODO	Run 02 - End ODO

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