



VSI/Alco. Tech. &amp; Biofuels/

/2020-21

## TEST REPORT

Sample Code No.	Extra Neutral Alcohol sample		Date: 18-08-2020
Name & Address of Customer			
Batch No.	---	Sample Description	ENA
Sample drawn by	Customer	Date of Sample Receipt	13-08-2020
Sample Quantity	180 ml×4	Date of Sample Analysis	14-08-2020
Reference No.	USPL/DIST/195/2020-21 dated August 12, 2020		

GC Parameters				
S.N.	Parameter	Result for ENA sample	Desirable limits as per IS:6613-2002 (Reaffirmed 2010)	Test Method
1	Acetaldehyde, gm/100 l of absolute alcohol	ND	Max. 0.5	In House Method
2	Acetone, gm/100 l of absolute alcohol	ND	NS	
3	Ethyl acetate, gm/100 l of absolute alcohol	ND	Max. 1.3	
4	Methanol, gm/100 l of absolute alcohol	ND	Max. 50	
5	2-Propanol, gm/100 l of absolute alcohol	ND	NS	
6	Ethanol, % v/v @ 20°C	NE	Min. 96	
7	Diacetyl, gm/100 l of absolute alcohol	ND	NS	
8	2-Butanol, gm/100 l of absolute alcohol	ND	NS	
9	1-Propanol, gm/100 l of absolute alcohol	0.405	NS	
10	2,3 Pentanedione, gm/100 l of absolute alcohol	ND	NS	
11	n-butyl acetate, gm/100 l of absolute alcohol	ND	NS	
12	Iso-Butanol, gm/100 l of absolute alcohol	ND	NS	
13	1-Butanol, gm/100 l of absolute alcohol	ND	NS	
14	Iso-amyl acetate, gm/100 l of absolute alcohol	ND	NS	
15	Amyl+ Iso-Amyl alcohol, gm/100 l of absolute alcohol	ND	Max. 30	
16	Total higher alcohols, gm/100 l of absolute alcohol	0.405	NS	
17	Furfural, gm/100 l of absolute alcohol	ND	NS	

ND: Not Detected NE: Not Estimated, NS: Not Specified.

Analysed By

Mrs. Nandita M. Naik  
(Asst. Technical Officer)

Authorized Signatory

Head & Technical Advisor  
Department of Alcohol Technology & Biofuels

## Note:

- Above result pertain only to the sample tested.
- Samples will be retained by us for a specified period, unless specific instructions to the contrary are received.
- The test report should not be reproduced except in full without written approval of laboratory.



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Sample Quantity	180 ml×4	Date of Sample Analysis	18-08-2020
Reference No.	USPL/DIST/195/2020-21 dated August 12, 2020		

Chemical parameters				
S.N.	Parameter	Result for ENA Sample	Desirable limits as per IS:6613-2002 (Reaffirmed 2010)	Test Method
1	Ethanol Content, % by volume	96.59	Min. 96	In House Method
2	Specific gravity	0.8065	NS	
3	Permanganate reaction time, min	44	Min. 30	

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Analysed By

Mrs. N. M. Naik  
(Asst. Technical Officer)

Authorized Signatory

(Prof. S. V. Petli)  
Head & Technical Advisor

Department of Alcohol Technology & Biofuels

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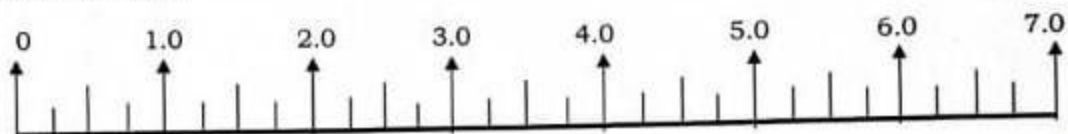
Date: 18/08/2020

**SENSORY EVALUATION SCORE SHEET**

Name of Organization

Panel Members : Four  
Sample Name : ENA

Sensory Scale:



Up to 4.5 : Rectified Spirit  
4.6 to 5.5 : Export Quality Rectified Spirit  
5.6 to 6.5 : Extra Neutral Alcohol  
Above 6.5 : Super Fine Extra Neutral Alcohol

The rating has to be given on 0 – 7 scale with a division 0.25. The divisions are nothing but the psychological spacing of individual perception towards a particular sample.

Sr. No.	Sample	Batch No.	Source	Nose out of 7.0	Palate out of 7.0	Total Average out of 7.0
1.	ENA	---	By hand	6.50	6.50	6.50

**Result:** 6.50 out of 7.00 on Organoleptic scale of ENA analysis.

**Describe any note perceived:** Slight fruity off note perceived in this sample.

**Remark:** This ENA sample is suitable for Potable Uses.

**Note-** This report is valid for the sample submitted to us.

(Prof. S. V. Patil)  
Head & Technical Advisor  
Department of Alcohol Technology & Biofuels.

