

L/C No & Date	:		Vessel	:	
B/L Date	:		Ref	:	
Quantity	:	1358.500 MT Metric Tons	Date	:	02 ND July, 2020
Seller	:	Tandlianwala Sugar Mills Limited			
Consignment	:	EXTRA NEUTRAL ALCOHOL ("ENA") GRADE			

Certificate of Quality

This is to certify that in accordance with instructions received; we have superintended above consignment at the time and place of loading and it is reported:-

Sampling / Quality: Samples drawn immediately before loading from [REDACTED], samples being representative of quality of bulk delivery of consignment on board. Samples were labeled and sealed by us. Two sealed samples of shore tank was submitted to Intertek Lab, Karachi for analysis results received from the testing laboratory are reproduced hereunder:-

Test Results					
S.No	Test Parameter	Method/Principle	Specification	UoM	Results
1	Appearance	Visual	Min N/A Max Clear & Colorless Liquid free from Suspended Matter	-	Complies
2	Organoleptic Characteristics	Organoleptic	Min N/A Max Not detectable taste other than typical	-	Complies
3	Odor	Organoleptic	Min N/A Max Neutral	-	Neutral
4	Color	Visual	Min N/A Max Clear	-	Clear
5	Alcohol Strength @ 20 C	ASTM D-4052	Min 95.2 Max N/A	Vol. %	96.41
6	Permanganate Test @ 15°C	ASTM D-1363-06(mod)	Min 35 min Max N/A	Min	> 35
7	Aldehydes, as Acetaldehydes	ASTM D 5501-09(mod)	Min N/A Max 5	mg/L	Not detected
8	Methanol	ASTM D 5501-09(mod)	Min N/A Max 20	mg/L	Not detected
9	IPA	ASTM D 5501-09(mod)	Min N/A Max 15	mg/L	5
10	N-propanol	ASTM D 5501-09(mod)	Min N/A Max 5	mg/L	Not detected
11	Iso-butanol	ASTM D 5501-09(mod)	Min N/A Max 5	mg/L	Not detected
12	N-amyyl Alcohol	ASTM D 5501-09(mod)	Min N/A Max 5	mg/L	Not detected
13	N-Butyl Alcohol	ASTM D 5501-09(mod)	Min N/A Max 5	mg/L	Not detected
14	Iso Amyl Alcohol	ASTM D 5501-09(mod)	Min N/A Max 5	mg/L	Not detected
15	Acidity (as acetic acid)	ASTM D 1613-17	Min N/A Max 15	mg/L	9
16	Acidity (as acetic acid)	EC-625-03	Min N/A Max 10	mg/L	9
17	Esters as Ethyl Acetate	ASTM D 5501-09(mod)	Min N/A Max 10	mg/L	Not detected
18	Non-Volatile (Dry) Matter	ASTM D 1353-09	Min N/A Max 15	mg/L	4
19	Heavy Metal (Pb)	ICP-OES	Min N/A Max N/A	mg/L	Not Detected
20	Chloride	Colorimetric	Min N/A Max 0.75	mg/L	< 0.75
21	Absorbance	UV spectrophotometer	Min N/A Max N/A	-	-
22	Absorbance @ 270nm	UV spectrophotometer	Min N/A Max 0.02	Abs/om	0.00
23	Absorbance @ 240nm	UV spectrophotometer	Min N/A Max 0.05	Abs/om	0.02
24	Absorbance @ 230nm	UV spectrophotometer	Min N/A Max 0.12	Abs/om	0.06
25	Absorbance @ 220nm	UV spectrophotometer	Min N/A Max 0.25	Abs/om	0.12
26	Curve	UV spectrophotometer	Min N/A Max Smooth	-	Smooth

SpecialRemarks

1. Complies to provided specification.
2. *Total Higher Alcohol LOD: 0.5 g/hl.
3. ASTM D 6601 LOD 0.2 g/hl.

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Comments: Based on above results, it is certified that the quality of EXTRA NEUTRAL ALCOHOL ("ENA") GRADE delivered onboard [REDACTED] confirms to the specification indicated in the above referred letter of credit. It is further certified that quality analysis are based on sample drawn ex-[REDACTED] at Karachi immediately before loading.


Intertek Pakistan (Pvt) Ltd

Note:- samples referred to in the certificate represent average obtained through random sampling and will be retained for a maximum of 3(three) months unless instructions to the contrary are received a the time and place of sampling.

The issuance of this document is without prejudice and does not exonerate any party from exercising all their rights and discharging all their liabilities under any contract of Sale. Stipulations to the contrary are not binding upon Intertek. Findings presented are at the place(s) and date(s) of our attendance only.

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Consignment	:	EXTRA NEUTRAL ALCOHOL ("ENA") GRADE			

Certificate of Quantity


This is to certify that in accordance with instructions received; we have superintended above consignment at the time and place of loading and it is reported: -

Vessel [REDACTED] arrived at Karachi 1154 hours on 30-06-2020 and all-fast at DB-2, Karachi at 1512 hrs on 30-06-2020.

The weight / quantity was determined by volumetric measurements EXTRA NEUTRAL ALCOHOL ("ENA") GRADE contained in [REDACTED].

Metric Tons	1,358.500
CBM @ 20 Deg C	1,688.417

The above parcel was loaded in Ship Tank No:- 1 Port & 6 Starboard, Shore pipeline was empty before and after loading.


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