

## ANALYSIS AND CALIBRATION CHARGES

## ANNEXURE-1

S.No.	Product(s)/Material of test	Nature of Analysis	Test Method/Standard against which tests are performed	Existing Analysis Charges (₹)	Approved Analysis Charges (₹)
A.	Sugar (Planation white sugar, Refined Sugar, Raw Sugar.)	Colour	ICUMSA GS2/3-10; GS2/3-9; GS9/1/2/3-8	1250/-	1375/-
		Turbidity	ICUMSA GS2/3-18	500/-	550/-
		Conductivity Ash	ICUMSA GS2/3/9-17	1000/-	1100/-
		Moisture	ICUMSA GS21/3/9-15	500/-	550/-
		Reducing Sugars/Invert Sugars	ICUMSA GS2/3/9-5 , GS1-5 , GS1/3/7-3	500/-	550/-
		Sulphite/Sulphur Dioxide	ICUMSA GS2/1/7/9-33	500/-	550/-
		pH	ICUMSA GS1/2/3/4/7/8/9-23	500/-	550/-
		Insoluble Matter/Extraneous matter	ICUMSA GS2/3/9-19	600/-	660/-
		Floc Test/Beverage floc	ICUMSA GS2/3-40	550/-	605/-
		Dextran	ICUMSA GS1/2/9-15	750/-	825/-
		Polarization	IS: 15279	500/-	550/-
		Assay/ Purity	IS: 15279	550/-	605/-
		Starch	ICUMSA GS1-16/17	500/-	550/-
		Sucrose	AOAC 925.48	750/-	825/-
		Trace Metal Elements: Cr (Chromium)/Pb (Lead)/ Zn (Zinc)/Cd (Cadmium)/As (Arsenic)/ Cu (Copper)/Fe (Iron)	ICUMSA GS 2-51/IS :1162 FAAS Method/Colorimetric Method	500/-element/ sample	550/-
		Dirth, filth, iron fillings & added colouring matter		600/-	660/-
		Taste, odour, odour after acidification & appearance	FSSAI Instructions Manual	800/-	880/-
MA/CV	ICUMSA GS2/9-37	550/-	605/-		
Gradation	IS-498	750/-	825/-		

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 M/c Consumer Affairs, Food & Public Distribution  
 खाद्य एवं सार्वजनिक वितरण विभाग / Dept. of Food & P.D.  
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B.	Sugar by product: (Molasses/ Other Intermediate or Factory Products)	Reducing Sugar	ICUMSA GS4/3-3	1000/-	1100/-
		Total Reducing Sugars	ICUMSA GS4/3-7	1500/-	1650/-
		Density at 27.5°C (Brix)	IS: 1162-1958	500/-	550/-
		Sucrose	GAFTA 130 (11:2)	750/-	825/-
		Glucose/Fructose/Sucrose	ICUMSA GS7/4/8-23(HPLC Method)	10000/-	11000/-
		Fermentable & Un-fermentable sugar	As per Standard Procedure/BIS	2000/	2200/-
		Volatile Fatty Acid	As per Standard Procedure/BIS	1600/	1760/-
C.	Gur, Massecuite (for each)	Total reducing Sugar	ICUMSA GS4/3-9/ IS 1162	1200/-	1320/-
		Sucrose	Indian Standard code as per System of Tech. Control	750/-	825/-
		Brix, Pol, Reducing Sugar, Moisture, Ash	ICUMSA GS5/7-1, ICUMSA GS1/3/7-3 ICUMSA GS2/3-1, ICUMSA GS2/1/3-15	500/- each	550/-
		CaO Content	Indian Standard code as per System of Tech. control	750/-	825/-
		Pol%	ICUMSA GS7-7	500/-	550/-
D.	Press cake	Moisture%	ICUMSA GS7-9	500/-	550/-
E.	Sugar Slurry	Grain size	ICUMSA GS2-37	750/-	825/-
F.	Effluents (Sugar/Distillery)	Total Solid, pH, Color, Conductivity, BOD, COD, TSS etc	Standard method of analysis/ APHA/WPCF/AWWA	5500/-	6050/-
G.	Microbial Analysis	TVS (Total Viable Count) along with Morphological Examination	As per Standard Procedure/BIS	6000/-	6600/-
H.	Calorific value of fuels	Moisture % & Calorific value	Digital Adiabatic Bomb Calorimeter Method	4400/-	4840/-
I.	Soil Testing	pH	As per Standard Procedure/BIS	20/-	22/-
		EC		20/-	22/-
		Organic Carbon		100/-	110/-
		N(Nitrogen)		100/-	110/-
		P( Phosphorus)		100/-	110/-

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		K(Potash)		100/-	110/-
		S(Sulphur)		100/-	110/-
		Micronutrients: Cu, Zn, Fe Mn		100/- each	110/-
J.	Rectified Spirit (R.A.)/ Extra-neutral Alcohol (E.N.A.)/ Absolute Alcohol (A.A.)	Alcohol content, Residue on evaporation; Total Ash, Acidity (Total, volatile & Fixed), Ester as ethyl acetate, Higher alcohol as amyl alcohol, Aldehyde as acetaldehyde, Furfural, Methanol (qualitative & quantitative), Copper.	As per BIS	5000/-	5500/-
K.	Indian Made Foreign Liquor (Alcoholic Drink)	Estimation of esters, higher alcohols, aldehydes, furfural and methanol	GC Method	15000/-	16500/-
L.	Indian Made Foreign Liquor (Alcoholic Drink)	Alcohol Content, Density.	NIR method for direct alcohol measurement	1500/-	1650/-
		Diastatic Power of Malt	AOAC Method	2000/-	2200/-
M.	Pol Tube	Calibration	Indian Standard code as per System of Tech. Control	2250/-	2475/-
N.	Brix Spindle	Calibration	Indian Standard code as per System of Tech. control	1250/-	1375/-
O.	Pressure Gauge	Calibration	As per Standard Procedure	350/-	385/-
P.	Vacuum Gauge	Calibration		350/-	385/-
Q.	Compound Gauge (Pressure/Vacuum)	Calibration		350/-	385/-
R.	Temperature Gauge	Calibration		3000/-	3300/-
S.	Polarimeter	Calibration		1800/-	1980/-
T.	Pressure Transmitters	Calibration		2500/-	2750/-
U.	Flow Transmitters (Differential Pressure)	Calibration			

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**ANALYSIS AND CALIBRATION CHARGES (New Activity)**

S.No.	Product(s)/Material of test	Nature of Analysis	Test Method/Standard against which tests are performed	Approved Analysis Charges (₹)
1.	<b>Sugar</b> (Plantation white sugar, Refined Sugar, Raw Sugar)	Acid soluble Phosphate	ICUMSA GS7-15	1000/-
2.	<b>Sugar by product:</b> (Molasses/ Other Intermediate or Factory Products)	Dry Substance/ Moisture %, Sulphated Ash)	ICUMSA GS4/7-11	500/-
		pH, TSS, TDS, Sludge %, F/N ratio	IS 1162	500/-
		Calcium %	Indian Standard code as per System of Tech. Control/BIS	550/-
			Indian Standard code as per System of Tech. Control/BIS	825/-
3.	Absolute Alcohol, ENA or RS or any other intermediate products of distillery process	Ethanol Content %	As per BIS/ NIR method for direct alcohol measurement	1650/-
4.	Ethanol based Hand sanitizer	Ethanol, Hydrogen peroxide, Glycerol, pH	As per Standard Procedure	6500/-
5.	Lime	CaO %, MgO %, Grit % (Un-burnt)	Indian Standard Code as per System of Tech. Control	1000/- each
6.	Sulphur	Moisture %, Sulphur %, Ash %	Indian Standard Code as per System of Tech. Control	1000/- each
7.	Phosphoric Acid	Purity as H <sub>3</sub> PO <sub>4</sub> %, P <sub>2</sub> O <sub>5</sub> %, Sulphate as (SO <sub>4</sub> ) %	Indian Standard Code as per System of Tech. Control	1000/- each

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