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# DOIWALA SUGAR COMPANY LTD.

(A Undertaking of Uttarakhand Govt.)



Regd. Office.  
Doiwala , Distt.- Dehradun (U.K.)

## FINAL MANUFACTURING REPORT

**R.T. 8 (C)**

**Season 2012-13**

# **DOIWALA SUGAR COMPANY LTD.**

**DOIWALA, DISTT. DEHRADUN (U.K.) 248140**

DSCL/

DATED: 06.05.2013

The Secretary  
Sugar & Cane Development  
Uttarakhand Government

Dear Sir,

We are submitting herewith our Final Manufacturing Report R.T. 8 (C) for the season 2012-13 for your kind information.

Yours faithfully,

  
( MANMOHAN SINGH )  
P.C.S  
EXECUTIVE DIRECTOR

**Copy of the above is forwarded to the following for their information :**

- 1- Chief Secretary & Commissioner Forest & Village Department, Uttarakhand Govt. Dehradun.
- 2- Secretary, Cane Commissioner, U.P. Secretariat, Lucknow.
- 3- Chairman, U.P. State Sugar Corporation Ltd. Lucknow.
- 4- Managing Director, U.P. State Sugar Corporation Ltd. Lucknow.
- 5- Additional Secretary, Village & Sugar Industry, Uttarakhand Govt. Dehradun.
- 6- Cane Commissioner, Uttarakhand. Government, Udham Singh Nagar.
- 7- Additional Secretary, Sugar & Cane Development, Dehradun.
- 8- Joint Commissioner, Cane & Sugar, Kashipur, Udham Singh Nagar.
- 9- Chief Director (Sugar) Directorate of Sugar Krishi Bhawan, New Delhi.
- 10- Director National Sugar Institute, Kanpur.
- 11- Director, General Indian Sugar Mills Asso., Ansal Plaza, C-Block, II Floor, August Kranti Marg, New Delhi.
- 12- Secretary, U.P. Sugar Mills Association, Ansal Plaza, C-Block, II Floor, August Kranti Marg, New Delhi.
- 13- Sugar Cane Inspector & Assistant Sugar Commissioner (Uttarakhand) Haldwani/Bareilly.
- 14- Excise Commissioner & Controller of Molasses, Uttarakhand, Dehradun.
- 15- Superintendent Central Excise, Dehradun.
- 16- Assistant Commissioner Central Excise, Central Zone, Dehradun.
- 17- Inspector Central Excise, Dehradun.
- 18- District Excise Office, Dehradun.
- 19- Inspector State, Excise, Dehradun.
- 20- Member Secretary U.K. Pollution Control Board, Dehradun.
- 21- Regional Officer Pollution Control Board, Dehradun.
- 22- General Manager/Executive Director, Nadhai, Sitarganj, Gadarpur, Bazpur, Kichha.
- 23- Nodal Officer, Uttarakhand Sugars, 53-B, Subhash Marg, Dehradun.
- 24- Joint Director, Environment & Forest Ministry, Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow.
- 25- Director, MOEF, CGO Complex, Lodhi Raod, New Delhi.
- 26- General Manager, Laksar, Iqbalpur, Uttam, Kashipur Sugar Mill.
- 27- All Departmental Heads, Doiwala Sugar Company Ltd., Doiwala (Dehradun).

Central Excise Series No. 76

**(FOR CENTRAL SUGAR FACTORIES)**  
**FINAL MANUFACTURING REPORT FOR THE SEASON 2012-13**

**RULE- 83**

Name &amp; Address of Factory

Doiwala Sugar Company Ltd.,

Doiwala Dehradun.

Registered No. of Factory

Clarification Process used

Double Sulphitation

S.N.	Particulars	This Year 2012-13	Last Year 2011-12
<b>1-</b>	<b>TIME ACCOUNT</b>		
	Date of Start	30.11.2012 at 4.00 P.M	30.11.2011 at 1.30 P.M
	Date of Finish	05.04.2013 at 10.00 A.M	31.03.2012 at 11.30 P.M.
	Duration of Season (Days)	126	123
	Total Days actual crushing	117	112
	Total hours actual crushing	2577.50	2457.00
	Total hours lost	440.10	481.00
	i) Cane Shortage	272.30	176.05
	ii) Mechanical	33.30	170.50
	iii) Process	-	2.35
	iv) Misc.	134.10	131.30
<b>2-</b>	<b>CANE CRUSHED</b>		
	i) Own Estate Cane (Qtls)	NIL	NIL
	ii) Gate Cane	1131178.49	1187990.40
	iii) Out Station Cane	1481051.50	1381100.10
	iv) Rail Cane	NIL	NIL
	v) Total	2612229.99	2569090.50
<b>3-</b>	<b>JUICE &amp; ADDED WATER:</b>		
	Total net mixed juice obtained (Qtls)	2671276.00	2631276.00
	Average gross mixed juice% cane	102.59	102.68
	Correction% mixed juice	0.33	0.25
	Avg. net mixed juice % cane	102.26	102.42
	Avg. added water percent cane	35.71	36.98
<b>4-</b>	<b>SUGAR:</b>		
	Quantity of Sugar (Qtls)	*223555.00	**231075.00
	Sugar in process if any "	(+) 599.00	(+) 276.00
	Total Sugar made "	224154.00	231351.00
	Sugar recovered from "	-	-
	Previous season process "	(-) 150.00	(-) 293.00
	Sugar from previous seasons "	(-) 1986.00	-
	Re-Melted or Sugar from other sources	(-) 1936.00	(-) 7033.00
	Total net Sugar made	220082.00	224025.00

\* This included 2705 Qtls of Brown Sugar of above 90° Pol

\*\* This included 2840 Qtls of Brown Sugar of above 90° Pol

Contd...3..

S.N.	Particulars	This Year 2012-13	Last Year 2011-12
5-	<b>MOLASSES:</b>		
	Total Molasses sent out (Qtls)	125000.00	123833.00
	Molasses in process if any "	(+) 264.00	(+) 193.00
	Total Molasses produced "	125264.00	124026.00
	Molasses recovered from "		
	Previous season's process "	(-) 347.00	331.00
	Molasses from previous season	(-) 948.00	-
	Remelted sugar or other sources "	(-) 108.00	1259.0
	Total net molasses produced "	123861.00	122436.00
6-	<b>RECOVERY:</b>		
	cane	8.43	8.72
7-	<b>AVERAGE PRODUCTION</b>		
	Final molasses percent cane	4.74	4.77
	Bagasse percent cane	33.12	34.30
	Filter cake % cane	4.01	4.05
8-	<b>STORE USED:</b>		
	Coal percent cane	-	-
	i) Trial	-	-
	ii) Season	-	-
	Firewood % cane	-	-
	i) Trial	0.06	-
	ii) Season	-	-
	Other Fuel % cane	-	-
	i) Trial ( Loose Bagasse)	0.21	0.19
	ii) Season	-	-
	For Previous of Season coal	-	-
	Firewood	-	-
	Other Fuel	-	-
	Lime % Cane	*0.208	*0.204
	Lime Stone (b) % Cane	-	-
	Coke % Cane	-	-
	Sulphur % Cane	0.06	0.06
	Lubricant (Oil & Grease) % Cane	0.63	0.56
	Filter Cloth Sq.	-	-
	Filter Bags No. % Cane	-	-
	Gunny Bags for sugar No. per 100 Qtls, Cane	8.56	8.80
	Washing soda Kg. per 100 Qtls Cane	0.038	0.06
	Caustic soda Kg. per 100 Qtls Cane	0.48	0.44
	Superphosphate ( for juice clarification Per 100 Qtls. Cane)- mention variety	-	-
	Single, double or triple Hyd. Kg. Per 100 Qtls. Cane	-	-
	E.C. Kg. -do-	-	-
	Blu Kg. -do-	-	-

\* This includes Lime used in injection channel and E.T.P.

Contt...4....

S.N.	Particulars	This Year 2012-13	Last Year 2011-12	
9-	<b>ANALYSIS:</b>			
	Cane	Sugar %	10.62	10.89
		Fibre %	15.15	15.88
	Primary Juice	Sugar %	13.11	13.72
		Brix %	16.99	17.52
		Purity	77.16	78.31
	Mixed	Sugar %	9.63	9.87
		Brix %	12.81	12.93
		Purity	75.18	76.33
	Last Mill Juice	Sugar %	1.46	1.55
		Brix %	2.16	2.27
		Purity	67.59	68.28
	Clarified Juice	Sugar %	9.56	9.86
		Brix %	12.60	12.83
		Purity	75.87	76.85
	Filter Press Juice	Sugar %	-	-
		Brix %	-	-
		Purity	-	-
	Unsulphured Syrup	Sugar %	35.00	36.93
		Brix %	46.03	48.00
		Purity	76.03	76.94
	Sulphured Syrup	Sugar %	-	-
		Brix %	-	-
		Purity	-	-
	MASSECUITE A	Brix %	95.27	95.06
		Purity	83.16	83.25
	MASSECUITE B	Brix %	96.41	97.13
		Purity	67.59	67.73
	MASSECUITE C	Brix %	101.60	100.91
		Purity	49.21	48.45
	MASSECUITE D	Brix %	-	-
		Purity	-	-
	MOLASSES		-	-
	A- HEAVY	Brix %	85.72	86.26
		Purity	66.82	67.00
	A- LIGHT	Brix %	75.90	72.04
		Purity	91.60	91.13
	B- HEAVY	Brix %	87.90	84.52
		Purity	44.12	44.08
	B- LIGHT	Brix %	-	-
		Purity	-	-
	C- LIGHT	Brix %	79.80	76.75
		Purity	59.50	60.00
	D- LIGHT	Brix %	-	-
		Purity	-	-

S.N.	Particulars	This Year 2012-13	Last Year 2011-12
	<b>SUGAR (Average):</b>		
	Sugar (Average Sugar %(d) white	99.98	99.90
	Moisture	0.02	0.02
	Final Molasses Sugar %	25.67	25.98
	Brix %	89.64	89.32
	Purity	28.64	29.09
	Bagasse Sugar %	2.30	2.28
	Water %	50.40	50.37
	Fibre %	46.20	46.29
	Filter Cake Sugar %	2.20	2.07
	Lime Kiln Gas CO <sup>2</sup> %	-	-
	Boiler Feed Water pH	8.80	8.60
<b>10-</b>	<b>MILL EXTRACTION, BOILING HOUSE EXTRACTION &amp; OVERALL EXTRACTION</b>		
	Mill Extraction	92.84	92.84
	Reduced Mill Extraction	94.98	94.58
	Boiling House Extraction	85.50	86.25
	Reduced Boiling House Extraction	92.24	92.17
	Overall Extraction	79.37	80.07
	Reduced Overall Extraction	87.61	87.17
<b>11-</b>	<b>SUGAR BALANCE</b>		
	Sugar in cane	10.62	10.89
	Sugar in mixed juice	9.86	10.11
	Sugar in Bagasse	0.76	0.78
	Sugar in final molasses	1.22	1.24
	Sugar in Filter cake	0.09	0.08
	Sugar in Sugars	8.42	8.71
	Sugar in undetermined	0.13	0.08
	Total losses (in bagasse, filter cake, molasses and undetermined)	2.20	2.18
<b>12-</b>	<b>AREA AND YIELD OF CANE IN FACTORY FARM</b>		
	Total area of farm	Hectare	NIL
	Area under Cane	Hectare	NIL
	Average yield per hectare		
	Average Variety	a) Plant	NIL
		b) Adsal	NIL
		c) Ratoon	NIL

I here by declare that the figures given in this return are complete and true to the best of my knowledge and belief.

  
(S.P. SINGH)  
LAB INCHARGE

  
(S.S. NEGI)  
I/C CHIEF CHEMIST

  
(MANMOHAN SINGH)  
P.C.S  
EXECUTIVE DIRECTOR

**NOTE:**

- a. Outstation cane means the cane weighed and purchased at centre other than at the factory gate.
- b. In case 3 massecuite system brix and purities of C Heavy and D Light molasses not to be given.
- c. for carbonation factories only.
- d. Sugar Means= direct Pol.
- e. Bagasse percent cane =100 plus added water percent cane-mixed juice (gross) percent cane.
- f. Gross season means the total number of days from the days of close both days inclusive.
- g. Duration of season. This is calculated by dividing the total hours of actual crushing by 22.

Returns in this form must be prepared for the entire working season of the factory and must be submitted so as to not later than 30 days after the date of which working season closes to the following authorities:

- 1- Central Excise Authorities Concerned.
- 2- Directorate of Sugar.
- 3- National Institute, Kanpur.