Phone: 0135-2695221 (FAX) 0135-2695109

DOIWALA SUGAR CO. LTD. DOIWALA

(A Undertaking of Uttarakhand Govt.)



Regd. Office.

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

FINAL MANUFACTURING REPORT

R.T. 8 (C)

Season 2015-16

DOIWALA SUGAR COMPANY LIMITED, DOIWALA (DEHRADUN)

DSCU Lab 155

DATED: 5,0 \$2016

Secretary,

Sugar Industries & Cane Development

Uttarakhand Govt.

Dehradun

Dear Sir,

We are submitting herewith our Final Manufacturing Report R.T. 8 (C) for the season 2015-16 for your kind information and necessary record please.

Yours faithfully,

(MANMOHAN SINGH)
P.C.S
EXECUTIVE DIRECTOR

Copy of the above is forwarded to the following for information and necessary action

- Chief Secretary Uttarakhand Govt. Dehradun.
- 2- Principal Secretary, Cane Development & Sugar Industries, Uttarakhand Secretariat, Dehradun.
- 3- Managing Director Uttarakhand Coop. Sugar Factories Fed. Ltd. (Uttarakhand Sugars) Ajabpur Khurd D.Dun
- 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.
- General Manager/Executive Director, Nadhai, Sitarganj, Gadarpur, Bazpur, Kichha.
- 23- Maha Prabandhak, Uttrakhand Sugar, S-8 Tyonar Villa, C-Block, Ganesh Bihar, Ajabpur Khurd, D.dun.
- 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).

(MANMOHAN SINGH) P.C.S

EXECUTIVE DIRECTOR

FORM - R.T. 8 (C)

Central Excise Series No. 76

(FOR CENTRAL SUGAR FACTORIES) FINAL MANUFACTURING REPORT FOR THE SEASON 2015-16 RULE- 83

Name & Address of Factory

Doiwala Sugar Company Ltd., Doiwala D.dun.

Registered No. of Factory Clarification Process used

Double Sulphitation

Clarif	ication Process used	Double Sulphitation				
S.N.	Particulars	This Year 2015-16	Last Year 2014-15			
1-	TIME ACCOUNT					
	Date of Start	02.12.2015 at 11 P.M	03.12.2014 at 10 A.M.			
	Date of Finish	01.04.2016 at 11 P.M	24.04.2015 at 2 A.M			
	Duration of Season (Days)	122	142			
	Total Days actual crushing	110	140			
	Total hours actual crushing	2413-00	3075-30			
	Total hours lost	491-00	324-30			
	i) Cane Shortage	200-20	35-35			
	ii) Mechanical+Electrical	152-35	82-25			
	iii) General Cleaning	97-35	143-45			
	iv) Process	4-00	•			
	v) Bad Weather	19-10	38-30			
	vi) Misc.	17-20	24-15			
2-	CANE CRUSHED		· · · · · · · · · · · · · · · · · · ·			
	i) Own Estate Cane (Qtls)	Nil	NIL			
	ii) Gate Cane	1120201.66	1263781.73			
	iii) Out Station Cane	1311830.47	1792554.65			
3	iv) Rail Cane	NIL	NIL			
	v) Total	2432032.13	3056336.38			
3-	JUICE & ADDED WATER:					
	Total net mixed juice obtained (Qtls)	2586016.97	3216054			
	Average gross mixed juice% cane	106.70	105.60			
	Correction% mixed juice	0.35	0.35			
	Avg. net mixed juice % cane	106.33	105.23			
	Avg. added water percent cane	38.65	38.87			
4-	SUGAR:					
	Quantity of Sugar (Qtls)	*229905	**274135			
	Sugar in process if any (Qtls)	(+) 319	(+) 330			
	Total Sugar made (Qtls)	230224	274465			
	Sugar recovered from previous season's process (Qtls)	(-) 286.00	(-) 201			
	Sugar recovered from previous season's BrownSugar (Qtts	(-) 1898	(-) 1835			
	Sugar recovered from privious season's BISS or Sugar from other sources (Qtls)	(-) 1224	(-) 3288			
5 1	Total net Sugar made (Qtls)	226816	269141			

^{*} This included 2890 Qtls of Brown Sugar of above 90° Pol



Contd....2..

^{**} This included 2680 Qtls of Brown Sugar of above 90° Pol

S.N.	Particulars	This Year 2015-16	Last Year 2014-15			
5-	MOLASSES:		9			
	Total Molasses sent out (Qtls)	114872	136100			
	Molasses in process if any (Qtls)	(+) 380	(+) 147			
	Total Molasses produced (Qtls)	115252	136247			
	Mol. recovered from Previous season's process (Qtls)	(-) 214	(-) 420			
	Molasses recovered from previous season's Brown Sugar					
	or from Remelting (Qtls)	(-) 938	(-) 869			
	Molasses recovered from Remelted sugar or other	(-) 64	(-) 193			
	sources (BISS) (Otts)	•	1			
	Total net molasses produced (Qtls)	114036	134765			
6-	RECOVERY:					
	Average recovery of sugar Percent cane	9.33	8.81			
7-	AVERAGE PRODUCTION					
	Final molasses percent cane	4.69	4.41			
	Bagasse percent cane	31.95	33.27			
	Filter cake % cane	4.00	4.00			
8-	STORE USED:					
	Coal percent cane	-	-			
	i) Trial		-			
	ii) Season	•	-			
	Firewood % cane		-			
	i) Trial	0.01	0.0069			
	ii) Season	•	-			
	Other Fuel % cane					
	i) Trial (Loose Bagasse)	0.27	0.23			
	ii) Season	•	-			
	For Previous of Season coal	-	-			
	Firewood	0.01				
	Other Fuel	•	-			
	Lime % Cane	* 0.208	* 0.216			
	Lime Stone (b) % Cane		-			
	Coke % Cane	•				
	Sulphur % Cane	0.058	0.06			
	Lubricant (Oil & Grease) % Cane	0.54	0.58			
	Filter Cloth Sq.	-				
	Filter Bags No. % Cane	-	-			
	Gunny Bags for sugar No. per 100 Qtls, Cane	9.55	8.97			
	Washing soda Kg. per 100 Qtls Cane	0.0555	0.0489			
	Caustic soda Kg. per 100 Qtls Cane	0.586	0.54			
	Hcl	•	-			
	Per 100 Qtls. Cane)- mention variety	•	•			
	Single, double or triple Hyd. Kg.	•	-			
	Per 100 Qtls. Cane		-			
	E.C. Kgdo-	•				

^{*} This includes Lime used in injection channel and E.T.P.



Particulars		This Year 2015-16	Last Year 2014-15
ANALYSIS:			
Cane	Şugar %	11.39	10.92
	Fibre %	14.84	15.43
Primary Juice	Sugar %	14.00	13.48
	Brix %	17.75	17.34
	Purity	78.87	77.74
Mixed	Sugar %	10.03	9.65
	Brix %	12.98	12.68
1	Purity	77.27	76.10
Last Mill Juice	Sugar %	1.59	1.57
	Brix %	2.27	2.30
2	Purity	70.04	68.26
Clarified Juice	Sugar %	10.07	9.81
	Brix %	12.94	12.77
	Purity	77.82	76.82
Filter Press Juice	Sugar %	•	-
	Brix %		i i
	Purity	-	-
Unsulphured Syrup	Sugar %	37.58	36.23
	Brix %	48.25	47.10
	Purity	77.89	76.92
Sulphured Syrup	Sugar %	-	-
	Brix %	-	•
	Purity	-	•
MASSECUITE A	Brix %	94.32	94.62
	Purity	84.33	83.39
MASSECUITE B	Brix %	96.22	96.28
× ×	Purity	69.69	67.16
MASSECUITE C	Brix %	101.59	102.07
	Purity	49.61	48.77
MASSECUITE D	Brix %	•	-
	Purity	-	•
MOLASSES		-	•
A- HEAVY	Brix %	84.73	86.65
	Purity	69.00	66.22
A- LIGHT	Brix %	72.91	73.35
	Purity	91.62	92.43
B- HEAVY	Brix %	82.34	85.34
	Purity	44.70	42.42
B- LIGHT	Brix %	•	-
AU	Purity	•	
C- LIGHT	Brix %	77.77	79.27
	Purity	60.72	57.89
D- LIGHT	Brix %	•	•
	Purity	-	

Contd..4..

S.N.	Particulars		This Year 2015-16	Last Year 2014-15			
	SUGAR (Average):						
	Sugar (Average Sugar %(d) white		99.78	99.83			
	Moisture %		0.02	0.02			
	Final Molasses Sugar %		24.69	25.52			
	Brix %	89		91.95			
	Purity		27.74	27.75 2.30 50.27			
	Bagasse Sugar %		2.29				
	Water %		50.28				
	Fibre %		46.45	46.36			
	Filter Cake Sugar %		1.64	1.82			
	Lime Kiln Gan CO ² %		-	•			
	Boiler Feed Water pH		9.00	9.00			
10-	MILL EXTRACTION, BOILING HOUSE EXT	RACTION & OV	ERALL EXTRACTION	3000			
	Mill Extraction		93.59	92.95			
	Reduced Mill Extraction		94.75	94.48			
	Boiling House Extraction		87.34	86.70			
	Reduced Boiling House Extraction		92.41	92.53			
	Overall Extraction	30	81.74	80.59			
	Reduced Overall Extraction		87.56	87.42			
11-							
	Sugar in cane		11.39	10.92			
	Sugar in mixed juice		10.66	10.15			
	Sugar in Bagasse		0.73	0.77			
	Sugar in filter cake		0.07	0.07			
	Sugar in final molasses	(F)	1.16	1.13			
	Sugar in Sugars		9.31	8.80			
	Sugar in undetermined		0.12	0.15			
	Total losses (in bagasse, filter cake, molass	ses and	2.08	2.12			
	undetermined)		2.08	2.12			
12-	AREA AND YIELD OF CANE IN FACTORY FARM						
	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.

(J. P. STNGH) LAB INCHARGE

(R.K. SHARMA) CHIEF ENGINEER (S)S. NEGI) CHIEF CHEMIST (MANMOHAN SINGH)

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.

DOIWALA SUGAR COMPANY LTD. DOIWALA D. DUN. UTTARAKHAND

Additional information required by the Sugar Technologists' Association of India, New Delhi.

8.N.	Particulars	This !	Season 2015	-16	Last Season 2014-15		
		Grade	Qtls.	%	Otls.	%	
		M-30	194260	84.50	226280	82.54	
1.	Grade Wise Sugar Production	S-30	32755	14.24	45175	16.48	
L.	Grade wise Sugar Froudction	B.S.	2890	1.26	2680	0.98	
		Total	229905	100	274135	100	
,	Mill extraction		93.59		92.9	5	
2. 3.	Boiling House Extraction		87.34		86.70		
3. 4.	Overall extraction		81.74		80.59		
-	Reduced Mill extraction	<u> </u>					
5	(a) Mittal	95.08			95.01		
			94.75		94.48		
	(b) Noel Deer 94.75 Reduced boiling house extraction:						
6.		91.70			91.74		
	(a) Gundu Rao	92.41			92.53		
	(b) Noel Deer						
7.	Reduced overall extraction	87.19		87.16			
	(a) Gundu Rao	87.56		87.42			
	(b) Noel Deer	39.66			41.92		
8.	Un-diluted juice lost % fibre	29.93		29.75			
9.	Virtual Purity of final Molasses	81.36		81.01			
10.	Java Ratio		260.44		251.	91	
11.	Added water % fibre		74.19		72.70		
12.	Added water extraction in mixed juice % added water	 	1.60		1.64		
13.	Purity drop PJ-MJ	 	3.82		4.70		
14.	Clarification Efficiency	<u> </u>	3.02				
15 .	Rate of crushing (in tons)	2009.94			2157.41		
	(a) Including stoppages on 24 Hrs.	2418.93		2385.05			
	(b) Excluding stoppages on 24 Hrs.	2217.35		2186.29			
	(c) Excluding stoppages on 22 Hrs.	2500.00		2500.00			
	(d) Sanctioned capacity	80.40		86.30			
16.	(a) Capacity Utilization % Gross on 24 Hrs.	96.76		95.40			
	(b) Capacity utilization % Net on 24 Hrs.	88.69		87.45			
	(c) Capacity Offization % Net on 22 ms.						
17.	05.00				95.0	65	
	(a) M.J./P.J	77.28			74.88		
	(b) L.M.J./P.J.	11.28					

Name of Officers. 18.

SHRI VINOD SHARMA (I.A.S.) SHRI PRADEEP SINGH RAWAT SHRI MANMOHAN SINGH (P.C.S.) SHRI R. K. SHARMA SHRI S.S. NEGI SHRI VIJAY GOEL, SHRI MANOJ TOMAR SHRI J. P. SINGH

Designation

LAB INCHARGE

0135-2711881 SECRETARY (SUGAR)......RESI. No -MANAGING DIRECTOR RESI. No -0135-2733153 0135-2695006 EXECUTIVE DIRECTOR......RESI. No -09837288536 CHIEF ENGINEER 08449716850 CHIEF CHEMIST 08477895777 CHIEF ACCOUNTANT 08755461951 CANE MANAGER 09412854289/07088104341

LAB INCHARGE

Call No.