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 2016-17

#### DOIWALA SUGAR COMPANY LIMITED, DOIWALA (DEHRADUN)

**DSCL/181** 

DATED: (

03 .05.2017

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 2016-17 for your kind information and necessary record please.

Yours faithfully,

BHAGWAT KISHORE MISHRA P.C.S EXECUTIVE DIRECTOR

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

- 1- 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.
- 22- General Manager/Executive Director, Nadhai, Sitargani, 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', Aligani, 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).

**BHAGWAT KISHORE MISHRA** 

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 2016-17 RULE- 83

Name & Address of Factory Registered No. of Factory Clarification Process used Doiwala Sugar Company Ltd., Doiwala D.dun.

Double Sulphitation

Clarifi	cation Process used	Double Sulphitation					
S.N.	Particulars	This Year 2016-17	Last Year 2015-16				
1-	TIME ACCOUNT						
	Date of Start	02.12.2016 at 11:30 P.M	02.12.2015 at 11 P.M				
	Date of Finish	03.04.2017 at 10:30 P.M.	01.04.2016 at 11 P.M				
	Duration of Season (Days)	123	122				
	Total Days actual crushing	120	110				
	Total hours actual crushing	2634-00	2413-00				
	Total hours lost	293-00	491-00				
	i) Cane Shortage	126-00	200-20				
	ii) Mechanical+Electrical	10-35	152-35				
	iii) General Cleaning	100-30	97-35				
	iv) Process	-	4-00				
	v) Bad Weather	10-00	19-10				
	vi) Misc.	45-55	17-20				
2-	CANE ÇRUSHED						
	i) Own Estate Cane (Qtls)	Nil	Nil				
	ii) Gate Cane	1258491.08	1120201.66				
	iii) Out Station Cane	1371975.67	1311830.47				
	iv) Rail Cane	Nil	NIL				
	v) Total	2630466.75	2432032.13				
3-	JUICE & ADDED WATER:						
	Total net mixed juice obtained (Qtls)	2821784.76	2586016.97				
	Average gross mixed juice% cane	107.64	106.70				
	Correction% mixed juice	0.34	0.35				
	Avg. net mixed juice % cane	107.27	106.33				
	Avg. added water percent cane	39.61	38.65				
4-	SUGAR:						
	Quantity of Sugar (Qtls)	*250250	**229905				
	Sugar in process if any (Qtls)	(+) 305	(+) 319				
	Total Sugar made (Qtls)	250555	230224				
	Sugar recovered from previous season's process (Qtls)	(-) 241	(-) 286				
	Sugar recovered from previous season's BrownSugar (Qtls)	(-) 1889	(-) 1898				
	Sugar recovered from privious season's BISS or Sugar from other sources (Qtls)	(-) 1792	(-) 1224				
	Total net Sugar made (Qtls)	246633	226816				

<sup>\*</sup> This included 2810 Qtls of Brown Sugar of 90.30° Pol

<sup>\*\*</sup> This included 2890 Qtls of Brown Sugar of 90.20° Pol



Contd....2..

	Particulars	This Year 2016-17	Last Year 2015-16			
5-	MOLASSES:					
	Total Molasses sent out (Qtls)	122800	114872			
	Molasses in process if any (Qtls)	(+) 365	(+) 380			
	Total Molasses produced (Qtls)	123165	115252			
	Mol. recovered from Previous season's process (Qtls)	(-) 471	(-) 214			
	Molasses recovered from previous season's Brown Sugar					
	or from Remelting (Qtls)	(-) 926	(-) 938			
	Molasses recovered from Remelted sugar or other	/ \ 102	(-) 64			
	sources (BISS) (Qtls)	(-) 102				
	Total net molasses produced (Qtls)	121666	114036			
	RECOVERY:		4			
	Average recovery of sugar Percent cane	9.38	9.33			
-	AVERAGE PRODUCTION					
	Final molasses percent cane	4.63	4.69			
	Bagasse percent cane	31.97	31.95			
	Filter cake % cane	4.00	4.00			
	STORE USED:					
	Coal percent cane	=	-			
	i) Trial	-	-			
	ii) Season	-				
	Firewood % cane	-				
	i) Trial	0.01	0.01			
	ii) Season	-	-			
	Other Fuel % cane	-	-			
	i) Trial ( Loose Bagasse)	0.22	0.27			
	ii) Season	-	-			
	For Previous of Season coal	-	-			
	Firewood	0.01	0.01			
	Lime % Cane( E.T.P)	0.0153	0.004			
	Lime % Cane (Process)	0.204	0.204			
	Lime Stone (b) % Cane	0.204	0.204			
	Coke % Cane					
	Sulphur % Cane	0.055	0.058			
		0.49	0.54			
	Lubricant (Oil & Grease) % Cane Filter Cloth Sq.	0.43	0.04			
	Filter Bags No. % Cane	-	<u> </u>			
		9.63	9.55			
	Gunny Bags for sugar No. per 100 Qtls, Cane	0.0475	0.0555			
	Washing soda Kg. per 100 Qtls Cane		0.586			
	Caustic soda Kg. per 100 Qtls Cane	0.496	<del></del>			
	Hcl	•	-			
	Per 100 Qtls. Cane)- mention variety	-	<u> </u>			
	Single, double or triple Hyd. Kg.	-				
	Per 100 Qtls. Cane  E.C. Kgdo-	-				
			1 -			

Particulars		This Year 2016-17	Last Year 2015-1
ANALYSIS:		<b></b>	
Cane	Sugar %	11.39	11.39
	Fibre %	14.83	14.84
Primary Juice	Sugar %	14.08	14.00
	Brix %	17.85	17.75
	Purity	78.88	78.87
Mixed	Sugar %	9.95	10.03
	Brix %	12.88	12.98
	Purity	77.25	77.27
Last Mill Juice	Sugar %	1.57	1.59
	Brix %	2.27	2.27
	Purity	69.16	70.04
Clarified Juice	Sugar %	10.02	10.07
	Brix %	12.87	12.94
	Purity	77.86	77.82
Filter Press Juice	Sugar %	_	-
	Brix %		
	Purity	-	-
Unsulphured Syrup	Sugar %	36.39	37.58
	Brix %	46.70	48.25
	Purity	77.92	77.89
Sulphured Syrup	Sugar %	•	-
	Brix %	-	-
	Purity		
MASSECUITE A	Brix %	94.08	94.32
	Purity	84.01	84.33
MASSECUITE B	Brix %	96.01	96.22
	Purity	68.37	69.69
MASSECUITE C	Brix %	101.23	101.59
	Purity	49.43	49.61
MASSECUITE D	Brix %		
	Purity	-	
MOLASSES			
A- HEAVY	Brix %	84.82	84.73
	Purity	67.69	69.00
A- LIGHT	Brix %	74.02	72.91
	Purity	90.75	91.62
B- HEAVY	Brix %	83.69	82.34
	Purity	44.13	44.70
B- LIGHT	Brix %	-	-
	Purity	-	
C- LIGHT	Brix %	76.68	77.77
	Purity	60.59	60.72
D- LIGHT	Brix %	-	
D 210111	Purity	<del>                                       </del>	

Contd..4..

.N.	Particulars		This Year 2016-17	Last Year 2015-16			
	SUGAR (Average):						
Ī	Sugar (Average Sugar %(d) white		99.79	99.78			
	Moisture %		0.02	0.02			
	Final Molasses Sugar %		24.82	24.69			
	Brix %	1	90.17	89.02			
Ī	Purity		27.53	27.74			
Ţ	Bagasse Sugar %	2.26		2.29			
Ī	Water %		50.35	50.28 46.45			
Ī	Fibre %		46.38				
Ī	Filter Cake Sugar %		1.74	1.64			
	Lime Kiln Gan CO <sup>2</sup> %		-	-			
Ī	Boiler Feed Water pH		9.00	9.00			
)-	MILL EXTRACTION, BOILING HOUSE EXTRACTION & OVERALL EXTRACTION						
$\exists$	Mill Extraction	93.68	93.59				
Ī	Reduced Mill Extraction		94.81	94.75			
f	Boiling House Extraction		87.72	87.34			
ı	Reduced Boiling House Extraction		92.64	92.41			
t	Overall Extraction		82.18	81.74			
T	Reduced Overall Extraction		87.83	87.56 .			
- 1	SUGAR BALANCE						
寸	Sugar in cane	T	11.39	11.39			
ı	Sugar in mixed juice	, ,,,,,,,,,,	10.67	10.66			
Ī	Sugar in Bagasse		0.72	0.73			
ı	Sugar in filter cake		0.07	0.07			
Ī	Sugar in final molasses		1.15	1.16			
t	Sugar in Sugars		9.36	9.31			
	Sugar in undetermined		0.09	0.12			
1	Total losses (in bagasse, filter cake, molas	ses and	2.03	2.08			
	undetermined)		2.03	2.00			
2-	AREA AND YIELD OF CANE IN FACTORY FARM						
7	Total area of farm	Hectare	NIL	NIL			
	Area under Cane	Hectare	NIL	NIL			
Ī	Average yield per hectare						
	Average Variety	a) Plant	NIL	NIL			
Ī		b) Adsal	NIL	NIL			
Ì		c) Ratoon	NIL	NIL			

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

(J. P. SINGH) LAB INCHARGE (R.K. SHARMA) CHIEF ENGINEER

V(S.S. NEGI) CHIEF CHEMIST (BHAGWAT KISHORE MISHRA)

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.

#### DOIWALA SUGAR COMPANY LTD. DOIWALA D. DUN. UTTARAKHAND

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

5.N.	Particulars	This !	This Season 2016-17			Last Season 2015-16	
		Grade	Qtls.	%	Qtls.	%	
		M-30	214225	85.61	194260	84.50	
1.	Grade Wise Sugar Production	S-30	33215	13.27	32755	14.24	
		B.S.	2810	1.12	2890	1.26	
		Total	250250	100	229905	100	
2.	Mill extraction		93.68		93.5	9	
3.	Boiling House Extraction	87.72 87.3		4			
4.	Overall extraction	82.18		81.7	4		
5.	Reduced Mill extraction	•			<b></b>		
	(a) Mittal	95.15		95.0	95.08		
	(b) Noel Deer		94.81		94.75		
6.	Reduced boiling house extraction :						
	(a) Gundu Rao	92.00		91.70			
	(b) Noel Deer	92.64		92.41			
7.	Reduced overall extraction						
	(a) Gundu Rao	87.54		87.19			
	(b) Noel Deer	87.83		87.56			
8.	Un-diluted juice lost % fibre	39.50		39.66			
9.	Virtual Purity of final Molasses	29.44		29.93			
10.	Java Ratio	80.89		81.36			
11.	Added water % fibre	267.09		260.44			
12.	Added water extraction in mixed juice % added water	75.66		74.19			
13.	Purity drop PJ-MJ	1.63		1.60			
14.	Clarification Efficiency	4.44 3.82		2			
15.	Rate of crushing (In tons)						
	(a) Including stoppages on 24 Hrs.		2156.86		2009.	94	
	(b) Excluding stoppages on 24 Hrs.	2396.78		2418.93			
	(c) Excluding stoppages on 22 Hrs.	2197.05		2217.35			
	(d) Sanctioned capacity	2500.00		2500.00			
16.	(a) Capacity Utilization % Gross on 24 Hrs.	86.28		80.40			
	(b) Capacity utilization % Net on 24 Hrs.	95.87		96.76			
	(c) Capacity Utilization % Net on 22 Hrs.	87.88		88.69			
17.	E.R.Q.V.	5. 100-100 No. 100 No. 100	4				
	(a) M.J./P.J	March of the	95.81		95.8	8	
	(b) L.M.J./P.J.	75.00		77.28			

18.	Name of Officers.

SHRI J. P. SINGH

SHRI VINOD SHARMA (I.A.S.) SHRI PRADEEP SINGH RAWAT SHRI BHAGWAT KISHORE MISHRA (P.C.S.) SHRI R. K. SHARMA SHRI S.S. NEGI SHRI VIJAY GOEL, SHRI VIJAY GOEL,

**Designation** 

Call No. SECRETARY (SUGAR)......RESI. No -0135-2711881 MANAGING DIRECTOR ..... RESI. No -0135-2733153 EXECUTIVE DIRECTOR......RESI. No -0135-2695006 **CHIEF ENGINEER** 09837288536 **CHIEF CHEMIST** 08755552161 CHIEF ACCOUNTANT 08755552153 I/c CANE MANAGER 08755552153 LAB INCHARGE 09412854289

**LAB INCHARGE**