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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 2019-20

DOIWALA SUGAR COMPANY LIMITED, DOIWALA (DEHRADUN)

DSCI/ 308

DATED: 26/05/2020

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 2019-20 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

- 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. Badripur, Near Railway Crossing Jogiwala 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, Kashipur, Udham Singh Nagar (U.K.)
- 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- Secretary General A.S.T.A. India Ansal Plaza, C-Block, II Floor, August Kranti Marg, New Delhi.
- 14- Sugar Cane Inspector & Assistant Sugar Commissioner (Uttarakhand) Haldwani/Bareilly.
- 15- Excise Commissioner & Controller of Molasses, Uttarakhand, Dehradun.
- 16- Superintendent Central Excise, Dehradun.
- 17- Assistant Commissioner Central Excise, Central Zone, Dehradun.
- 18- Inspector Central Excise, Dehradun.
- 19- District Excise Office, Dehradun.
- 20- Inspector State, Excise, Dehradun.
- 21- Member Secretary U.K. Pollution Control Board, Dehradun.
- 22- Regional Officer Pollution Control Board, Dehradun.
- 23- General Manager/Executive Director, Nadehi/ Bazpur/ Kichha Sugar Mill
- 24- Maha Prabandhak, Uttarakhand Sugars, Badripur, Near Railway Crossing, Jogiwala D.dun.
- 25- Joint Director, Environment & Forest Ministry, Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow.
- 26- Director, MOEF, CGO Complex, Lodhi Raod, New Delhi.
- 27- General Manager, Sugar mill Laksar/ Iqbalpur/ Libberheri, Haridwar. (U.K.)
- 28- 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

FINAL MANUFACTURING REPORT FOR THE SEASON 2019-20

RULE- 83

Name & Address of Factory

Doiwala Sugar Company Ltd., Doiwala D.dun.

Registered No. of Factory

Clarification Process used

Double Sulphitation

S.N.	Particulars	This Year 2019-20	Last Year 2018-19
1-	TIME ACCOUNT		
	Date of Start	04.12.2019 at 10 P.M.	12.12.2018 at 11-00 P.M.
	Date of Finish	03.05.2020 at 2 A.M.	29.04.2019 at 11-15 P.M.
	Duration of Season (Days)	151	139
	Total Days actual crushing	135	126
	Total hours actual crushing	2969-00	2782-10
	Total hours lost	635-00	533-05
	i) Cane Shortage	59-55	98-35
	ii) Mechanical+Electrical	240-10	206-55
	iii) General Cleaning	186-10	153-15
	iv) Process	-	6-25
	v) Bad Weather	89-40	17-20
	vi) Misc.	59-05	50-35
2-	CANE CRUSHED		
	i) Own Estate Cane (Qtls)	-	-
	ii) Gate Cane	1152414.60	1083324.10
	iii) Out Station Cane	1697699.13	1660372.39
	iv) Rail Cane	-	-
	v) Total	2850113.73	2743696.49
3-	JUICE & ADDED WATER:		
	Total net mixed juice obtained (Qtls)	2980502.08	2875851.77
	Average gross mixed juice% cane	104.91	105.14
	Dirt Correction% mixed juice	0.32	0.307
	Avg. net mixed juice % cane	104.57	104.82
	Avg. added water percent cane	36.39	36.70
4-	SUGAR:		
	Quantity of Sugar (Qtls)	* 288465	**275730
	Sugar in process if any (Qtls)	(+ 691)	(+ 200)
	Total Sugar made (Qtls)	289156	275930
	Sugar recovered from previous season's process (Qtls)	(-) 174	(-) 170
	Sugar recovered from previous season's Brown Sugar (Qtls)	(-) 725	(-) 2223
	Sugar recovered from previous season's BISS or Sugar from other sources (Qtls)	(-) 3360	(-) 1340
	Total net Sugar made (Qtls)	284897	272197

* This includes 2410 Qtls of Brown Sugar of 90.20° Pol

** This includes 2700 Qtls of Brown Sugar of 90.20° Pol

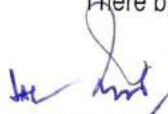
Contd...2.

S.N.	Particulars	This Year 2019-20	Last Year 2018-19
5-	MOLASSES:		
	Total Molasses sent out (Qtls)	126600	129020
	Molasses in process if any (Qtls)	(+) 408	(+) 124
	Total Molasses produced (Qtls)	127008	129144
	Mol. recovered from Previous season's process (Qtls)	(-) 155	(-) 266
	Molasses recovered from previous season's Brown Sugar or from Remelting (Qtls)	(-) 354	(-) 1094
	Molasses recovered from Remelted sugar or other sources (BISS) (Qtls)	(-) 185	(-) 66
	Total net molasses produced (Qtls)	126314	127718
6-	RECOVERY:		
	Average recovery of sugar Percent cane	10.00	9.92
7-	AVERAGE PRODUCTION		
	Final molasses percent cane	4.43	4.66
	Bagasse percent cane	31.48	31.56
	Filter cake % cane	4.00	4.00
8-	STORE USED:		
	Coal percent cane	-	-
	i) Trial	-	-
	ii) Season	-	-
	Firewood Qtls. % cane	-	-
	i) Trial	0.08	0.01
	ii) Season	-	-
	Other Fuel % cane	-	-
	i) Trial (Loose Bagasse)Qtls. % Cane	0.21	0.19
	ii) Season	-	-
	For Previous of Season coal	-	-
	Firewood	-	-
	Lime Qtls % Cane(E.T.P)	-	-
	Lime Qtls % Cane (Process)	0.202	0.20
	Lime Stone Qtls. % Cane	-	-
	Coke Qtls. % Cane	-	-
	Sulphur Qtls. % Cane	0.065	0.06
	Lubricant Kgs. (Oil & Grease) % Cane	0.556	0.48
	Boraquate (Mill Sanitation chemical) Litres % Cane	0.03	0.01
	Filter Cloth Nos. % Cane	-	-
	Gunny Bags/ PP Bags for sugar Nos. % Cane	10.121	10.045
	Washing soda Kgs. % Cane	0.0386	0.04
	Caustic soda Kgs. % Cane	0.600	0.608
	Hydrochloric Acid Litres % Cane	0.606	0.58
	Sodium Hydrosulphite Kgs. % Cane	0.0105	0.01
	Ammonium Bi fluoride Kgs. % Cane	0.028	0.04
	Bleaching Powder Kgs. % Cane	0.013	0.0018

S.N.	Particulars	This Year 2019-20	Last Year 2018-19	
9-	ANALYSIS:			
	Cane	Sugar %	11.97	12.00
		Fibre %	14.42	14.46
	Primary Juice	Sugar %	15.07	15.07
		Brix %	18.69	18.85
		Purity	80.63	79.95
	Mixed	Sugar %	10.70	10.70
		Brix %	13.51	13.65
		Purity	79.20	78.39
	Last Mill Juice	Sugar %	1.83	1.81
		Brix %	2.57	2.57
		Purity	71.21	70.43
	Clarified Juice	Sugar %	10.79	10.77
		Brix %	13.54	13.66
		Purity	79.69	78.84
	Filter Press Juice	Sugar %	-	-
		Brix %	-	-
		Purity	-	-
	Unsulphured Syrup	Sugar %	36.94	37.73
		Brix %	46.39	47.84
		Purity	79.63	78.87
	Sulphured Syrup	Sugar %	-	-
		Brix %	-	-
		Purity	-	-
	MASSECUITE A	Brix %	93.63	94.19
		Purity	84.92	84.55
	MASSECUITE B	Brix %	95.14	96.27
		Purity	70.96	69.85
	MASSECUITE C	Brix %	100.24	100.96
		Purity	49.73	49.68
	MASSECUITE D	Brix %	-	-
		Purity	-	-
	MOLASSES		-	-
	A- HEAVY	Brix %	82.47	84.61
		Purity	71.44	69.78
	A- LIGHT	Brix %	72.08	73.55
		Purity	92.34	90.21
	B- HEAVY	Brix %	81.87	83.03
		Purity	46.62	46.55
	B- LIGHT	Brix %	-	-
		Purity	-	-
	C- LIGHT	Brix %	72.88	77.78
		Purity	64.20	62.88
	D- LIGHT	Brix %	-	-
		Purity	-	-

S.N.	Particulars	This Year 2019-20	Last Year 2018-19
	SUGAR (Average):		
	Sugar (Average Sugar %(d) white	99.82	99.81
	Moisture %	0.02	0.02
	Final Molasses Sugar %	23.15	24.36
	Brix %	87.84	89.09
	Purity	26.35	27.34
	Bagasse Sugar %	2.49	2.47
	Water % Bagasse	50.70	50.68
	Fibre % Bagasse	45.80	45.81
	Filter Cake Sugar %	1.50	1.62
	Lime Kiln Gas CO ² %	-	-
	Boiler Feed Water pH	9.10	9.10
10-	MILL EXTRACTION, BOILING HOUSE EXTRACTION & OVERALL EXTRACTION		
	Mill Extraction	93.48	93.50
	Reduced Mill Extraction	94.47	94.51
	Boiling House Extraction	89.19	88.24
	Reduced Boiling House Extraction	92.74	92.47
	Overall Extraction	83.37	82.50
	Reduced Overall Extraction	87.61	87.39
11-	SUGAR BALANCE		
	Sugar in cane	11.97	12.00
	Sugar in mixed juice	11.19	11.22
	Sugar in Bagasse	0.78	0.78
	Sugar in filter cake	0.06	0.07
	Sugar in final molasses	1.03	1.14
	Sugar in Sugars	9.98	9.90
	Sugar in undetermined	0.12	0.11
	Total losses (in bagasse, filter cake, molasses and undetermined)	1.99	2.10
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

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


(J. P. SINGH)
LAB INCHARGE


(P.K. Pandey)
I/C. CANE
MANAGER


(R.K. SHARMA)
CHIEF ENGINEER


(S.S. NEGI)
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 Delhi
- 3- National Sugar Institute, Kanpur.

DOIWALA SUGAR COMPANY LTD. DOIWALA D. DUN. UTTARAKHAND

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

S.N.	Particulars	This Season 2019-20			Last Season 2018-19	
		Grade	Qtls.	%	Qtls.	%
1.	Grade Wise Sugar Production	M-30	255990	88.74	241310	87.52
		S-30	30065	10.42	31720	11.50
		B.S.	2410	0.84	2700	0.98
		Total	288465	100	275730	100
2.	Mill extraction	93.48			93.50	
3.	Boiling House Extraction	89.19			88.24	
4.	Overall extraction	83.37			82.50	
5.	Reduced Mill extraction					
	(a) Mittal	94.59			94.61	
	(b) Noel Deer	94.47			94.51	
6.	Reduced boiling house extraction :					
	(a) Gundu Rao	92.17			91.85	
	(b) Noel Deer	92.74			92.47	
7.	Reduced overall extraction					
	(a) Gundu Rao	87.18			86.90	
	(b) Noel Deer	87.61			87.39	
8.	Un-diluted juice lost % fibre	40.89			40.76	
9.	Virtual Purity of final Molasses	29.16			29.91	
10.	Java Ratio	79.43			79.63	
11.	Added water % fibre	252.36			253.80	
12.	Added water extraction in mixed juice % added water	78.78			79.03	
13.	Purity drop PJ-MJ	1.43			1.56	
14.	Clarification Efficiency	3.40			3.24	
15.	Rate of crushing (In tons)					
	(a) Including stoppages on 24 Hrs.	1898.00			1986.24	
	(b) Excluding stoppages on 24 Hrs.	2303.90			2366.81	
	(c) Excluding stoppages on 22 Hrs.	2111.90			2169.58	
	(d) Sanctioned capacity (T.C.D.)	2500.00			2500.00	
16.	(a) Capacity Utilization % Gross on 24 Hrs.	75.92			79.45	
	(b) Capacity utilization % Net on 24 Hrs.	92.16			94.67	
	(c) Capacity Utilization % Net on 22 Hrs.	84.48			86.78	
17.	E.R.Q.V.					
	(a) M.J./P.J	96.48			96.10	
	(b) L.M.J./P.J.	76.82			76.17	

18.	<u>NAME OF OFFICERS.</u>	<u>DESIGNATION</u>	<u>CONTACT NO.</u>
	SHRI HARBANSH SINGH CHUGH (I.A.S.)	CHAIRMAN/SECRETARY (SUGAR)	- MOBILE No. 7895566600
	SHRI CHANDRESH KUMAR YADAV (I.A.S.)	MANAGING DIRECTOR	- MOBILE No. 7055700000
	SHRI MAN MOHAN SINGH (P.C.S.)	EXECUTIVE DIRECTOR	- MOBILE No. 8449716868
	SHRI R. K. SHARMA	CHIEF ENGINEER	- MOBILE No. 9837288536
	SHRI S.S. NEGI	CHIEF CHEMIST	- MOBILE No. 9412136945
	SHRI Ashok Garg	I/c. CHIEF ACCOUNTANT	- MOBILE No. 9634712605
	SHRI PRAVEEN KUMAR PANDEY	I/C. CANE MANAGER	- MOBILE No. 9457282378
	SHRI J. P. SINGH	LAB INCHARGE	- MOBILE No. 9412854289


(J.P. SINGH)
LAB INCHARGE


(S.S. NEGI)
CHIEF CHEMIST