

SHRI SANT DAMAJI S.S.K.LTD.MANGALWEDHA



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Phone :8308808633,8308808684,9623244445

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DIST: - SOLAPUR
Pin: -413305

Hon. Shri Ambadas C.Kulkarni.
Vice-Chairman.

Hon. Shri Samadhan M.Autade.
Chairman.

Ref.No Mfg/ / 2020-2021

Date: - / 04 / 2021

BOOK POST

To,
The Managing Director.

_____ S.S.K Ltd _____

Tal:- _____ Dist:- _____

Pin:- _____

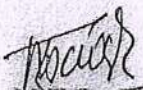
Subject: - *Final Manufacturing Report in the form R.T.8 (c) for the season 2020-2021*


Dear Sir,

We are sending herewith our Final Manufacturing Report in the form of R.T.8 (c) for the season 2020-2021. Kindly arrange to send a similar copy of your Final Manufacturing Report R.T.8 (c) for the season 2020-2021 for our information and record please.

Thanking you,

Yours Faithfully,


M.T. Pawar
Chief Chemist


Z.L. Asabe
Managing Director

-: FORM R.T.8(C):-

(For Central Sugar Factories) Central Ex. Section No. 76

E.C.C. No.: - *AAATS 5265 KXMOOL*

Range: - *PANDHARPUR*

GST NO : *27AAATS5265K1Z3*

Division: - *SOLAPUR*

Collectorate: - *PUNE III*

FINAL MANUFACTURING REPORT FOR THE SEASON 2020-2021

Name & Address of the Factory

:- Shri Sant Damaji Sahakari Sakhar Karkhana
Limited, Mangalwedha. Dist: - Solapur.

Regd. no. of the Factory

:- SUR / MDA / PRG / (A) - 15(S) 1989 Dt. 26/04/1989.

Clarification Process Used

:- **DOUBLE SULPHITATION**

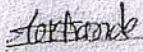
Sr. No	Particulars	This Season 2020-2021	Last Season 2019-2020
1	TIME ACCOUNT		
	Date of Start	03/11/2020 at 04.00 A.M.	19/12/2019 at 10.00 A.M.
	Date of Finish	07/03/2021 at 04.00 P.M.	10/03/2020 at 04.00 P.M.
	Gross season Days (F)	124	83
	Duration of season Days (H)	125.32	69.41
	Total Hrs. Crushed	2757.00	1527.00
	Hours Lost		
	a) Cane Shortage	132.00	433.00
	b) Mechanical & Electrical	49.00	14.00
	c) Rain	-	-
	d) Process	-	-
	e) Cleaning	48.00	-
	f) Misc.	-	-
	Total Hrs Lost	229	447.00
2	CANE CRUSHED (QTLS) (A)		
	a) Own Estate Cane	-	-
	b) Member's Cane	2299718.47	1098661.78
	c) Non Member's Cane	581639.45	293605.10
	d) Gate Cane	762697.30	235693.12
	e) Out station Cane	81089.77	-
	Total	3725144.99	1627960.00
3	JUICE & ADDED WATER		
	a) Avr. Gross mixed juice % Cane	96.54	96.70
	b) Correction % mixed juice	0.43	0.42
	c) Avr. Net mixed juice % Cane	96.11	96.28
	d) Total Net mixed Juice obtd (Qtls)	3580207.58	1567344.01
	e) Avr. Added Water % Cane	24.94	25.50
4	SUGAR		
	1) Total Sugar Bagged		
	a) White 50 Kgs.	655000	310596
	b) White 30 Kgs.	65000	8840
	Total White Sugar Qtls.	347000.00	157950.00
	c) B. I.S.S. (Rori Sugar)	-	-
	d) Brown Sugar (G)	-	-
	2) Sugar in Process if any (Qtls)	-	-
	3) Total Sugar Made (Qtls)	347000.00	157950.00
	4) Sugar recovered from Brown Sugar of previous season**	-	-
	5) Sugar recovered from previous season Rori / damage Sugar	-	-
	6) Total Net Sugar Made (Qtls)	347000.00	157950.00

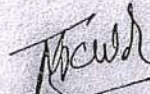
Sr. No	Particulars	* This Season 2020-2021	* Last Season 2019-2020
5	MOLASSES (Qtls)		
	1) Total Molasses sent out	153995.09	77300.0
	2) Molasses in process	-	-
	3) Total Molasses Produced	153995.09	77300.0
	4) Molasses recovered from previous Brown Sugar season process**	-	-
	5) Molasses recovered from previous season remelted Rori /damage Sugar	-	-
	6) Total Net Molasses Produced	153995.09	77300.00
6	RECOVERY (Excl. binding material)		
	a) Avr. Recovery of Sugar % Cane	9.32	9.70
	b) Avr. Production of Final Molasses % Cane	4.13	4.75
7	BAGASSE PRECENT CANE (E)	28.40	28.80
8	Filter cake percent cane	2.86	3.63
9	STORED USE)		
	a) Coal % Cane		
	Trial		
	Season		
	b) Fire wood % Cane		
	Trial		
	Season	0.029	0.001
	c) Other fuel % Cane Furnace oil		
	Trial	-	-
	Season	-	-
	d) Lime % Cane		
	Process	0.131	0.150
	Spray	0.020	0.020
	E.T.P.	0.010	0.017
	Total	0.161	0.187
	e) Sulphur % Cane	0.047	0.069
	f) Lubricant oils (Ltr. /100 Qtls Cane)	0.125	0.225
	g) Grease (Kgs /100 Qtls Cane)	0.053	0.070
	h) Antiscalent for Sugar (--"---)	0.054	0.036
	j) Formaldehyde (--"---)	0.005	0.003
	l) Caustic Soda (--"---) General cleaning + DM plant	0.778	0.205
	k) Phosphoric Acid (85%) (--"---)	0.072	0.162
	l) 100 Kg Gunny Bag (--"---)	-	-
	m) 50 Kg P.P. Bag (Nos --"---)	19.19	21.28
	n) 30Kg P.P. Bag (Nos --"---)	0.228	0.061
	o) Mill sanitation Chemical (--"---)	0.479	0.144
	p) Washing soda (--"---)	-	-
	q) Stable bleaching powder Kgs per (--"---)	0.027	0.009
	r) Settling Aids per (--"---)	0.023	0.028
	s) Defoamer (T.R.O.) (--"---)	0.027	0.032
	t) Com. Hydrochloric Acid per (--"---)	0.027	0.058
10	ANALYSIS		
	Cane		
	Sugar %	11.18	11.69
	Fiber %	13.28	13.49
	Primary Juice		
	Sugar %	15.40	14.70
	Brix %	18.48	17.83
	Purity	83.31	82.45
	Mixed Juice		
	Sugar %	11.00	11.50
	Brix %	13.44	14.21
	Purity	81.81	80.93
	Last mill Juice		
	Sugar %	2.34	2.23
	Brix %	3.18	2.93
	Purity	73.58	76.11
	Clarified Juice		
	Sugar %	10.48	11.02
	Brix %	12.75	13.56
	Purity	82.20	81.27


Sr. No	Particulars	This Season 2020-2021	Last Season 2019-2020
	Sulphured syrup	Sugar % 42.02	40.96
		Brix % 51.00	50.36
		Purity 82.40	81.33
	Masseccuite (A)	Brix % 91.46	89.90
		Purity 88.63	88.53
	Masseccuite (B)	Brix % 95.17	91.89
		Purity 71.59	76.65
	Masseccuite (C)	Brix % 101.19	95.90
		Purity 56.65	62.46
	MOLASSES (C)		
	A Heavy	Brix % 82.42	76.90
		Purity 71.41	76.45
	A Light	Brix % 79.66	77.89
		Purity 89.52	89.25
	B Heavy	Brix % 90.90	87.90
		Purity 48.42	59.73
	C Light	Brix % 85.99	82.88
		Purity 60.51	64.54
	SUGAR AVERAGE (D)		
	1) White Sugar bagged	Sugar% 99.80	99.80
		Moisture % 0.04	0.04
	2) Raw Sugar bagged	Pol % -	-
		Moisture % -	-
	3) BS (Brown Sugar)*	Sugar % -	-
		Brix % -	-
		Purity % -	-
	4) Final Molasses	Sugar % 29.15	26.30
		Brix % 89.09	80.53
		Purity % 32.72	32.66
	5) Bagasse	Sugar % 2.16	2.15
		Water % 50.30	50.33
		Fiber % 46.76	46.85
	6) Filter cake	Sugar % 1.70	1.42
	7) Lime Klin Gas (B)	Co2 % -	--
	8) Boiler feed water temperature	above 95°C	95°C
	9) Boiler Feed water pH	above 8.5	8.5
	10) Clear Juice Temperature	95°C	95°C
	11) Clear Juice pH	6.9	6.9
11	EFFICIENCY FIGURES		
	1) Mill Extraction	94.51	94.70
	2) Reduced Mill Extraction	94.89	95.16
	3) Boiling House Extraction	87.98	87.44
	4) Reduced Boiling House Extraction	90.13	89.47
	5) Overall Extraction	83.18	82.81
	6) Reduced Overall Extraction	85.52	85.14
12	SUGAR BALANCE		
	1) Sugar in Cane	11.18	11.69
	2) Sugar in mixed juice	10.57	11.07
	3) Sugar in bagasse	0.61	0.62
	4) Sugar in filter cake	0.05	0.05
	5) Sugar in final Molasses	1.20	1.25
	6) Sugar in Sugar	9.30	9.68
	7) Sugar undetermined	0.09	0.09

Sr. No.	Particulars	This Season 2020-2021	Last Season 2019-2020
13	AREA & YIELD OF CANE IN FACTORY FARM		
	1) Total Area of farm (Hects)	7900.00	
	2) Area under cane	6700.00	
	3) Production of cane M.T.	372514.499	
	4) Avr. Yield per hect. M.T.	79.86	
	a) Plant (hector.) M.T.	127036.344	
	b) Adsali (hector.) M.T.	174970.239	
	c) Ratoon (hector.) M.T.	70507.916	

We hereby declare that figures given in this return are complete and true to the best of our knowledge.


(A.S. Lokhande)
Lab-Incharge


(M.T. Pawar)
Chief Chemist


(Z.L. Asabe)
Managing Director

Shri Sant Damaji Sahakri Sakhar Karkhana Ltd., Mangalwedha. Dist: -Solapur.

NOTES: -

- A) Out station cane is the weighed and purchased at center other than the factory gate.
- B) For carbonation factories only.
- C) Sugar means direct pol.
- D) Bagasse % cane = $100 + \text{Added water \% cane} - \text{Gross M.J. \% cane}$.
- E) Gross season days means the total number of days from date of start to the date of close inclusive of both the day.
- F) Duration of season - This is calculated by dividing the total hours actual crushing by 22Hr.
- G) The above figures are subject to alteration if any change as per Deputy Chief Chemist report Central Excise, Mumbai.

SHRI SANT DAMAJI SAHAKARI SAKHAR KARKHANA LTD., MANGALWEDIHA.
 Tal: -Mangalwedha. Dist: -Solapur.

ADDITIONAL INFORMATION OF EFFICIENCIES
 To be submitted to the sugar Tech. Association of India.

Sr. No	Particulars	This Season 2020-2021	Last Season 2019-2021
A) ENGINEERING & MANUFACTURING DATA			
1	Installed crushing capacity (TCD)	2500	2500.
2	Capacity Utilization %	109.78	72.57
3	Av. Moisture % Bagasses	50.30	50.33
4	Av. Pol % bagasses	2.16	2.15
5	Av. Temp. of added water (0°c)	85°c	85°c
6	Added water extracted in M.J. % added water % cane	88.42	76.99
7	Undiluted juice lost % fiber	33.71	33.76
B) Boiling House Data			
8	Mill Extraction	94.51	94.70
9	Boiling House Extraction	87.98	87.44
10	Overall Extraction	83.18	82.81
11	Reduced Mill Extraction	94.89	95.16
12	Reduced Mill Extraction (Mittal)	95.38	95.41
13	Reduced Boiling House Extraction		
	a) Gundu Rao	90.13	89.47
	b) Noel Deer	90.46	89.92
14	Reduced Overall Extraction		
	a) Gundu Rao	85.52	85.14
	b) Noel Deer	85.84	85.57
15	Added water % fiber	187.80	189.03
16	Clarification Efficiency / Factor	96.17 / 3.83	97.12 / 2.88
17	Molasses Produced Act. To Therotical %	104.29	106.98
18	Virtual purity of final molasses	33.80	36.36
19	Crushing rate per 24 Hrs. (Qlts)		
	a) Including Stoppages	29940.88	19792.83
	b) Excluding Stoppages	32427.81	25586.80
20	Crushing Rate per 22 Hrs. (Qlts)		
	a) Including Stoppages	27445.81	18143.43
	b) Excluding Stoppages	29725.49	23454.57
21	E. R. Q. V.		
	a) Mixed Juice. / Primary Juice	97.15	97.18
	b) Last Mill Juice. / Primary Juice.	85.13	86.38
22	Total Hrs. Lost percent Hrs. Available	7.67	22.64
23	Jawa Ratio	72.60	79.52
24	Purity		
	A) C for worker sugar	80.25	80.26
	B) C after worker sugar	93.50	93.36
25	Masseccuite % cane		
	a) A Masseccuite %	23.30	22.03
	b) B Masseccuite %	11.32	11.65
	c) C Masseccuite %	8.26	8.32
	Total Masseccuite %	42.88	42.00

Sr. No.	Particulars	*This Season 2020-2021		*Last Season 2019-20	
		Qtls	%	Qtls	%
	Grade wise sugar production				
	1) L-30	--	--	--	--
	2) M-30	88500	25.50	64740.00	40.99
	3) S 1 -30 (Super)	146500	42.22	61840.00	39.15
	4) S - 30	112000	32.28	31370.00	19.86
	5) B.S.				
	Total: -	347000.00	100.00	157950.00	100.00
27	BAGASSE DATA				
	a) Bagasse production (M.T.) during the season	105794.110		46883.000	
	b) Bagasse utilized as fuel (M.T.) in the boiler of sugar mill	42317.647		41977.870	
	c) Bagasse saved (M.T.) during the season	23811.550		5355.830	
	d) Bagasse saved % cane	6.39		3.29	
	e) Bagasse used for Own paper plant	-		-	
	f) Bagasse used as a fuel for ancillary unit during the season	-		-	
	g) Bagasse sold (M.T.)	8356.520		4959.380	
	h) Bagasse balance at the end of season	1400.000		396.450	
28	STEAM GENERATION: -				
	a) Live steam production (M.T.)	93098.820		83955.740	
	b) Steam consumption % cane	24.99		51.57	
	c) Pressure (Kg/cm ²) 1) High pressure	45Kg/cm ²		45Kg/cm ²	
	d) Temperature (°c) 1) High pressure	420 ⁺ - 10 ⁰ c		440 ⁺ - 5 ⁰ c	
	e) No Cane Period Steam Used	11166.25		-	
29	STEAM CONSUMPTION % CANE				
	a) Power House	9812.550		29613.794	
	b) Mill House	17841.000		22877.676	
	c) Bleeding + Misc (Factory)	-		-	
	d) Ancillary unit	-		-	
	e) Process steam	2691.840		31464.270	
30	ELECTRICITY GENERATION & CONSUMPTION				
	1) Units generated by T.G. set	5951200		2886160	
	2) Units generated by D.G. set	21600		56000	
	3) Units purchased from MSEB	41631		44798	
	4) Total units generated	6014431		2986958	
	5) Total units consumed in				
	a) Sugar Factory	5770051		2896458	
	b) Distillery & E.N.A	-		-	
	c) Office & colony	118080		26000	
	d) Units Used for D.I.E.S	-		-	
	e) Units Used for ETP	126300		64500	

1) Name of the Managing Director

: Shri Zunjar Laxman Asabe

2) Name of the Works Manager

: Shri Suhash Shivaji Shingare

3) Name of the Chief Chemist

: Shri Mohan Tanaji Pawar

4) Name of the Chief Accountant

: Shri Ramesh Laxman Ganeshkar

5) Name of the Chief Agriculture Officer

: Shri Ramesh D. Pawar

(A.S.Lokhande)
Lab- Incharge

(M.F.Pawar)
Chief Chemist

(Z.L.Asabe)
Managing Director