

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



E-Mail: santdamajissk@gmail.com

web: www.damajisugar.com

TAL:- MANGALWEDHA

DIST:- SOLAPUR

Phone: 8308808633, 8308808684, 9623244445

Pin:- 413305

Hon. Shri Ambadas C. Kulkarni

Hon. Shri Samadhan M. Autade.

Vice- Chairman

Chairman

Ref. No Mfg/ 1856 /2019-2020

Date:- 24/ 03/2020

BOOKPOST

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 2019-2020

Dear Sir,

We are sending herewith our final Manufacturing Report in the form of R.T.8 (c) for the season 2019-2020 Kindly arrange to send a similar copy of your final manufacturing Report R.T.8 (c) for the season 2019-2020 for our information and record please.

Thanking you,

Yours Faithfully,

S.B. Malvade

Chief Chemist

Zunjar I. Asabe

Managing Director

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

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

E.C.C. No.: AAATS 5265 KXM001

Range :- PANDHARPUR

GST No: 27AAAT85265K1Z3

Division: -SOLAPUR

Colletorate :- PUNE-III

FINAL MANUFACTURING REPORT FOR THE SEASON 2019-2020

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 2019-2020 | Last season 2018-2019 |
|---------|--|-------------------------|-------------------------|
| 1 | TIME ACCOUNT | | |
| | Date of Start | 19/12/2019 at 10.00 A/M | 25/10/2018 at 2.00 P/M |
| | Date of Finish | 10/03/2020 at 04.00 P/M | 19/02/2019 at 16.00 P/M |
| | Gross Season Days (F) | 83 | 118 |
| | Duration of season Days(H) | 69.41 | 112.18 |
| | Tatal Har. Crushed | 1527.00 | 2468.00 |
| | Hours Lost | | |
| | a) Cane Shortage | 433.00 | 158.50 |
| | b) Mechaical & Electrical | 14.00 | 122.50 |
| | c) Rain | - | Nil |
| | d) process | - | 10.00 |
| | e) Cleanig | - | 51.00 |
| | f) Misc. | - | Nil |
| | Total Hrs Lost | 447.00 | 342.00 |
| 2 | CANE CRUSHED (QTLSo (A) | | |
| | a) Own Estate Cane | - | 6107.45 |
| | b) Member's cane | 1098661.78 | 2339126.05 |
| | c) Non Member's cane | - | 636841.09 |
| | d) Gate - cane | 293605.10 | 624446.99 |
| | e) Out station Cane | 235693.12 | 25356.28 |
| | Total | 1627960.00 | 3631877.86 |
| 3 | JUICE&ADDED WATER | | |
| | a) Avr. gross mixed juice % cane | 96.70 | 96.31 |
| | b) Corretion % Mixed Juice | 0.42 | 0.39 |
| | c) Avr. Net mixed juice % cane | 96.28 | 95.92 |
| | d) Total Net mixed juice obtd (Qtls) | 1567344.01 | 3483596.70 |
| | e) Avr. added water % cane | 25.50 | 25.10 |
| 4 | SUGAR | | |
| | 1) Total Sugar Bagged | | |
| | a) White 50 Kgs. | 310596 | 709200 |
| | b) Whie 30 kgs. | 8840 | 60000 |
| | Total White sugar qtls. | 157950.00 | 372600.00 |
| | c) B.I.S.S. (Rori Sugar) | - | - |
| | d) Brown Sugar (G) | - | - |
| | 2) Sugar in process if any (qtls) | - | - |
| | 3) Total sugar made (qtls) | 157950.00 | 372600.00 |
| | 4) sugar recoverd from brown sugar of previous season | - | - |
| | 5) sugar recpverd from previous season rori/damage sugar | - | - |
| | 6) Total Net sugar made (qtls) | 157950.00 | 372600.00 |


| Sr. No. | Particulars | This season 2019-2020 | Last season 2018-2019 |
|---------|--|-----------------------|-----------------------|
| 5 | MOLASSES (QHs) | | |
| | 1) Total Molasses sent out | 77300.00 | 175160.00 |
| | 2) Molasses in process | - | - |
| | 3) Total Molasses Produced | 77300.00 | 175160.00 |
| | 4) Molasses recovered from previous brown sugar process | - | - |
| | 5) Molasses recovered from previous season remeltd rori damage sugar | - | - |
| | 6) Total net molasses produced | 77300.00 | 175160.00 |
| 6 | RECOVERY (Excl. binding material) | | |
| | a) Avr. recovery of sugar % cane | 9.70 | 10.26 |
| | b) Avr. Production of Final Molasses % Cane | 4.75 | 4.82 |
| 7 | BAGASSE PRECENT CANE (B) | 28.80 | 28.79 |
| | Filter cake percent cane | 3.63 | 3.54 |
| 8 | STORED USE | | |
| | a) Coal % Cane | | |
| | Trial | | |
| | Seaaon | | |
| | b) Fire wood % cane | | |
| | Trial | | |
| | Seaaon | 0.001 | 0.019 |
| | c) Other fuel % cane furnace oil | | |
| | Trial | - | - |
| | Seaaon | - | - |
| | d) Lime % Cane | | |
| | Process | 0.150 | 0.123 |
| | Spray | 0.020 | 0.020 |
| | E.T.P. | 0.017 | 0.017 |
| | Total | 0.187 | 0.160 |
| | e) Sulphur %cane | 0.069 | 0.056 |
| | f) Lubricant oils (Ltr./100 qtls cane) | 0.225 | 0.224 |
| | g) Grease (Kgs/100 qtls cane) | 0.070 | 0.072 |
| | h) Antiscalent for sugar (----) | 0.036 | 0.036 |
| | i) Formaldehyde | 0.003 | 0.055 |
| | j) Caustic soda () general cleanig+DM plant | 0.205 | 0.372 |
| | k) Phosphoric Acid (85%)(----) | 0.162 | 0.071 |
| | l) 100 kg gunny bag (-----) | - | - |
| | m) 50 kg.p.p. bag (nos-----) | 21.28 | 21.09 |
| | n) 30 kg p.p. bag (nos...) | 0.061 | 1.789 |
| | o) Mill sanitation chemical (-----) | 0.144 | 0.062 |
| | p) Washing soda (----) | - | - |
| | q) Stable bleaching powder kgs Per (---) | 0.009 | 0.003 |
| | r) Settling Aids Per (-----) | 0.028 | 0.017 |
| | s) Defoamer (T.R.O) (-----) | 0.032 | 0.048 |
| | t) Com. Hydrochloric acid per (----) | 0.058 | 0.101 |
| 9 | ANALYSIS | | |
| | Cane | | |
| | Sugar % | 11.69 | 12.211 |
| | Fiber % | 13.49 | 13.544 |
| | Primary juice | | |
| | Sugar % | 14.70 | 16.89 |
| | Brix % | 17.83 | 19.89 |
| | Purty | 82.45 | 83.94 |
| | Mixed Juice | | |
| | Sugar % | 11.50 | 11.93 |
| | Brix % | 14.21 | 14.46 |
| | Purity | 80.93 | 82.50 |
| | Last mill juice | | |
| | Sugar % | 2.23 | 2.45 |
| | Brix % | 2.93 | 3.36 |
| | Purity | 76.11 | 72.98 |
| | Clarified Juice | | |
| | Sugar% | 11.02 | 11.56 |
| | Brix% | 13.56 | 13.94 |
| | Purity | 81.27 | 82.94 |

| Sr. No. | Particulars | | This season 2019-2020 | Last season 2018-2019 |
|---------|--|----------------------------|-----------------------|-----------------------|
| 8 | Sulphured Syrup | Sugar % | 40.96 | 42.34 |
| | | Brix % | 50.36 | 50.92 |
| | | Purty | 81.33 | 83.15 |
| | | Brix % | 89.90 | 91.85 |
| | Massecuite (A) | Purty | 88.53 | 88.60 |
| | | Brix % | 91.89 | 96.22 |
| | Massecuite (B) | Purty | 76.65 | 71.18 |
| | | Brix % | 95.90 | 101.12 |
| | Massecuite (C) | Purty | 62.46 | 56.32 |
| | | | | |
| | MOLASSES (C) | | | |
| | | A Heavy | Brix % | 76.90 |
| | | Purty | 76.45 | 71.42 |
| | | Brix % | 77.89 | 79.29 |
| | A Light | Purty | 89.25 | 89.69 |
| | | Brix % | 87.90 | 90.93 |
| 9 | B Heavy | Purty | 59.73 | 50.63 |
| | | Brix % | 82.88 | 86.72 |
| | C Light | Purity | 64.54 | 61.16 |
| | | | | |
| | SUGAR AVERAGE (D) | | | |
| | | 1) White Sugar bagged | sugar% | 99.80 |
| | | moistre% | 0.04 | 0.04 |
| | | 2) Raw sugar bagged | pol% | - |
| | | moistre% | - | - |
| | | 3) Bs (Brown sugar) | sugar% | - |
| | | Brix % | - | - |
| | | purity % | - | - |
| | 4) Final Molasses | sugar% | 26.30 | 27.54 |
| | | Brix % | 80.53 | 95.03 |
| | | Brix % | 32.66 | 28.98 |
| | | 5) Bagasse | sugar% | 2.15 |
| | | Water% | 50.33 | 50.00 |
| | | fiber% | 46.85 | 47.05 |
| | 6) Filter cake | Sugar% | 1.42 | 1.87 |
| | | 7) Lime kline gas (B) | Co2% | -- |
| | 8) Boiler feed water temperatuer | above | 95°C | 95°C |
| | | 9) Boiler feed water pH | above | 8.5 |
| | 10) Clear juice Temperature | | 95c | 95°C |
| | | 11) Clear juice pH | | 6.9 |
| 10 | EFFICIENCY FIGURES | | | |
| | | 1) Mill Extraction | | 94.70 |
| | 2) Reduced Mill Extraction | | 95.16 | 95.38 |
| | | 3) boiling house extrtion | | 87.44 |
| | 4) reduced boiling house extraction | | 89.47 | 90.28 |
| | | 5) overall extraction | | 82.81 |
| | 6) reduced overall extraction | | 85.14 | 85.55 |
| | | | | |
| 11 | SUGAR BALANCE | | | |
| | | 1) Sugar in cane | | 11.69 |
| | 2) Sugar in mixed juice | | 11.07 | 11.592 |
| | | 3) Sugar in bagasse | | 0.62 |
| | 4) Sugar in filter cake | | 0.05 | 0.066 |
| | | 5) Sugar in final molasses | | 1.25 |
| | 6) Sugar in sugar | | 9.68 | 10.239 |
| | | 7) Sugar undetermined | | 0.09 |
| | 8) Total losses (in bagasse, filter cake, molasses undetermined) | | 2.01 | 1.952 |

| Sr. No. | Particulars | This season 2019-2020 | Last season 2018-2019 |
|---------|---|-----------------------|-----------------------|
| 13- | AREA & YIELD OF CANE IN FACTORY FARM | | |
| 1) | Total Area of farm (hects) | - | 31.41 |
| 2) | area under cane | - | 6.00 |
| 3) | production of cane m.t | - | 610.745 |
| 4) | avr. yield per hect m.t | - | 101.00 |
| a) | plant (hector) m.t | - | 0 |
| b) | adsali (hetor) m.t | - | 610.745 |
| c) | ratoon (hetor) m.t | - | 0 |

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


(S.R. Nagtilak)
Lab-Incharge


(S.B. Malvade)
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 hours actual crushing by 22 hr.
 - 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,

Tal:- MANGALWEDHA.

DIST:- SOLAPUR.

ADDITIONAL INFORMATION OF EFFICIENCIES


To be submitted to the sugar tech. Association of India

| Sr. No. | Particulars | This season 2019-2020 | Last season 2018-2019 |
|---------|--|--------------------------|--------------------------|
| | A) ENGINEERING & MANUFACTURING DATA | | |
| 1 | Installed crushing capacity (T.C.D) | 2500 | 2500 |
| 2 | Capacity Utilization % | 72.57 | 112.85 |
| 3 | Av. Moisture % Bagasses | 50.33 | 50.00 |
| 4 | Av.Pol% bagasses | 2.15 | 2.15 |
| 5 | Av.Temp. of addes water (O`c) | 85°C | 85°C |
| 6 | Added water extracted in m.j. % added water % cane | 76.99 | 95.93 |
| 7 | Undiluted juice lost % fiber | 33.76 | 31.54 |
| | B) Boiling House Data | | |
| 8 | Mill Extraction | 94.70 | 94.93 |
| 9 | Boiling hous extration | 87.44 | 88.32 |
| 10 | Overall extraction | 82.81 | 83.85 |
| 11 | Reduced mill extraction | 95.16 | 95.38 |
| 12 | Reduced mill extraction(Mittal) | 95.41 | 95.32 |
| 13 | Reduced boiling house extraction | | |
| | a) Gundu rao | 89.47 | 89.69 |
| | b) Noel Deer | 89.92 | 90.28 |
| 14 | Reduced Overall Extraction | | |
| | a) Gundu rao | 85.14 | 85.55 |
| | b) Noel Deer | 85.57 | 86.11 |
| 15 | Added water% fiber | 189.03 | 185.28 |
| 16 | Clarification efficiency/factor | 97.12/2.88 | 94.07/5.93 |
| 17 | Molasses Produced Act.To Therotical% | 106.98 | 124.71 |
| 18 | Virtual purity of final molasses | 36.36 | 35.506 |
| 19 | Crushing rate per 24 Hrs. (Qlts) | | |
| | a) Including stoppages | 19792.83 | 31019.60 |
| | b) Excluding stoppages | 25586.80 | 35318.10 |
| 20 | Crushing rate per 24 Hrs. (Qlts) | | |
| | a) Including stoppages | 18143.43 | 28434.60 |
| | b) Excluding stoppages | 23454.57 | 32374.90 |
| 21 | E. R. Q. V. | | |
| | A) Mixed juice./primary juice | 97.18 | 97.46 |
| | b) Last mill juice./primary juice. | 86.38 | 79.99 |
| 22 | Total Hrs. Lost percent Hrs. Available | 22.64 | 12.17 |
| 23 | Jawa Ratio | 79.52 | 73.16 |
| 24 | Purity | | |
| | A) C for worket sugar | 80.26 | 80.27 |
| | b) c after worker sugar | 93.36 | 93.40 |
| 25 | Masseuite % came | | |
| | a) A Masseuite % | 22.03 | 24.007 |
| | b) B Masseuite % | 11.65 | 12.012 |
| | c) B Masseuite % | 8.32 | 8.980 |
| | Total Masseuite % | 42.00 | 44.999 |

| Sr. No. | Particulars | This season 2019-2020 | | Last season 2018-2019 | |
|---------|--|-----------------------|----------------------|-----------------------|----------------------|
| | | Qtls | % | Qtls | % |
| 26 | Grade wise sugar production | | | | |
| | 1) J-30 | -- | -- | 1100 | 0.30 |
| | 2) M-30 | 64740.00 | 40.99 | 108380 | 29.08 |
| | 3) S 1-30 (Super) | 61840.00 | 39.15 | 116500 | 31.27 |
| | 4) S-30 | 31370.00 | 19.86 | 146620 | 39.35 |
| | 5) B.S | | | | |
| | Total :- | 157950.00 | 100.00 | 372600 | 100.00 |
| 27 | Bagasse Data | | | | |
| | a) Bagasse production (M.T) during the season | | 46883.000 | | 104558.790 |
| | b) bagasse utilized as fuel (M.T) in the boiler of Sugar mill | | 41977.870 | | 79002.740 |
| | c) Bagasse saved (M.T) during the season | | 5355.830 | | 25556.050 |
| | d) Bagasse saved % cane | | 3.29 | | 7.04 |
| | e) Bagasse used for own paper plant | | - | | - |
| | f) Bagasse used as a fuel for ancillary unit during the season | | - | | - |
| | g) Bagasse sold (M.T) | | 4959.380 | | 25105.350 |
| | h) Bagasse balance at the end of season | | 396.450 | | 450.700 |
| 28 | STEAM GENERATION | | | | |
| | a) live steam production (MT) | | 83955.740 | | 145275.114 |
| | b) Steam Consumption % cane | | 51.57 | | 40.00% |
| | c) Pressure (kg/cm ² l) High Pressure | | 45kg/cm ² | | 45kg/cm ² |
| | d) Temperature (c) l) High pressure | | 440+ 5c | | 440+ 5c |
| 29 | STEAM CONSUMPTION % CANE | | | | |
| | a) Power House | | 29613.794 | | 54243.040 |
| | b) Mill House | | 22877.676 | | 39587.014 |
| | c) Bleeding+misc (Factory) | | - | | - |
| | d) Ancillary unit | | - | | - |
| | e) Process steam | | 31464.270 | | 54445.060 |
| 30 | ELECTRICITY GENERATION & CONSUMPTION | | | | |
| | 1) Units generated by T.G.set | | 2886160 | | 5256320 |
| | 2) Units generated by D.G.set | | 56000 | | 15960 |
| | 3) Units purchased from MSEB | | 44798 | | 47559 |
| | 4) Total units generated | | 2986958 | | 5319839 |
| | 4) Total units consumed in | | | | |
| | a) Sugar factory | | 2896458 | | 5090812 |
| | b) Distillery & E.N.A | | - | | - |
| | c) office & colony | | 26000 | | 113067 |
| | d) Units Used For D.I.E.G | | - | | - |
| | e) Units Used for ETP | | 64500 | | 115960 |

- | | |
|--|----------------------------|
| 1) Name of the Managing Director | : Shri Zunjar Laxman Asabe |
| 2) Name of the Works Manager | : Suhas Shivaji Shingare |
| 3) Name of the Chief Chemist | : Santoshkumar B.Malwade |
| 4) Name of the Chief Accountant | : Ramesh Laxman Ganeshkar |
| 5) Name of the Chief Agriculture officer | : Ramesh D. Pawar |
| 6) Name of the office Superintendent | : Dagadu B. Fhate |


(S.R. Nagtilak)
Lab-Incharge


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Managing Director

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