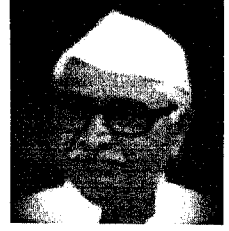


# SHRI VIGHNAHAR



## SAHAKARI SAKHAR KARKHANA LTD. JUNNAR / AMBEGAON

At – NIVRUTTINAGAR (DHALEWADI), PO - SHIROLI BK.  
TAL- JUNNAR, DIST – PUNE (MAHARASHTRA STATE)

\*Telegram - VIGHNAHAR' JUNNAR  
\* CHAIRMAN – (Resi ) 02132 278121  
\* Email - vighnaharsugar@gmail.com

\* PHONE NO – (02132) 246000  
\* Mobile No:- 8600005470 / 8600005205  
\* FAX NO – (02132) 246040

❖ **FOUNDER : LATE HON. N. N. SHERKAR, Ex. M.P.**

❖ **CHAIRMAN : SHRI SATYASHILDADA S. SHERKAR**

Ref. No: - VGN / MFG / 511 / 2024 -25

DATE – 10/05/2024

To,  
THE MANAGING DIRECTOR,  
.....  
.....


### **SUB – FINAL MANUFACTURING REPORT FOR THE SEASON 2023-2024**

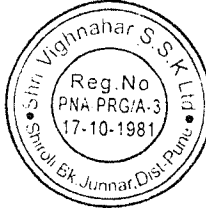
Dear Sir,

Please find enclosed herewith our '**FINAL MANUFACTURING REPORT**' in the Form **R. T. 8 (c)** for the crushing Season 2023-2024 for your information and record.

Kindly acknowledge the same.

Thanking you,  
Yours faithfully,

  
**( BHASKAR GHULE )**  
**MANAGING DIRECTOR**  
**Shri Vighnahar S.S.K.Ltd.**



ENCL: AA

**FORM R.T. 8 (C)**

(For Central Sugar Factories)

RANGE - CHAKAN VI

DIVISION - CHAKAN

ECC NO. - AAAAS20 33GXM001

Code No:- 14101

**FINAL MANUFACTURING REPORT FOR THE SEASON : 2023-2024.**

Name & Address of the factory - Shri Vighnagar Sahakari Sakhar Karkhana Ltd.  
At- Nivruttnagar (Dhalewadi), Po- Shirolu Bk.

Tal - Junnar, Dt. - Pune. PIN 410 511(M.S)

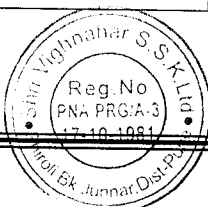
Regd. No. of Factory

- PNA/PRG-. 17.10.1981

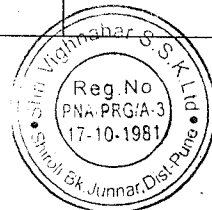
Clarification process used

- Double Sulphitation.

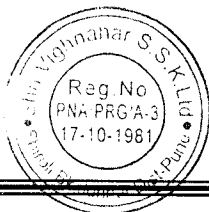
Sr.No	Particulars	This Season 2023-2024	Last Season 2022-2023
1	<b>TIME ACCOUNT: -</b>		
	Date of start	03.11.2023 At 7.00 pm	22.10.2022 At 11.00 am
	Date of finish	29.04.2024 At 10.00 am	29.03.2023 At 11.55 am
	Gross Seasons days (f)	179.00	159.00
	Duration of season days (g)	189.64	167.55
	Total Hrs. actual crushing	4168.00	3686.00
	Total Hrs. lost due to -		
	a) Cane shortage	--	32.00
	b) Mechanical & electrical	--	--
	c) Process	--	---
	d) Cleaning	101.00	79.00
	e) Miscellaneous	--	--
	f) Rain	2.00	--
	<b>Total</b>	<b>103.00</b>	<b>111.00</b>
2	<b>CANE CRUSHED (QTLS) :-</b>		
	a) Own estate cane	4133.780	3853.760
	b) Members cane	3374438.630	2881436.280
	c) Non Members cane	6244645.540	5172414.040
	d) Gate cane	611032.050	985905.920
	<b>e) Total Cane</b>	<b>10234250.00</b>	<b>9043610.000</b>



Sr.No.	Particulars	This Season 2023-2024	Last Season 2022-2023
<b>3</b>	<b>JUICE AND ADDED WATER :-</b>		
	Average gross mixed Juice % cane	101.260	102.288
	Correction% mixed Juice	0.300	0.510
	Avg. Nett mixed Juice % cane	100.960	101.778
	Total Nett mixed Juice (MT)	1033260.000	920440.000
	Avg. added water %cane	<b>28.385</b>	<b>29.187</b>
<b>4</b>	<b>SUGAR :- ( Qtls)</b>		
	Total Sugar bagged (Nos)		
	a) White Sugar ( 50kgs P P bags)	2300000	2004200
	b) Total Sugar Qty.	1150000	1002100
	c) Brown sugar produced	--	--
	d)Total sugar produced	1150000	1002100
	e) Sugar in process if any	--	--
	f)Total sugar made	<b>1150000</b>	<b>1002100</b>
<b>5</b>	<b>MOLASSES :- (Qtls)</b>		
	a) B Heavy molasses sent out	162300	181800
	b) C Heavy Molasses sent out	306600	206100
	c) Total molasses produced	468900	387900
	d) Molasses from previous seasons Process	--	--
	e) Molasses from damaged sugar	--	--
	f) Molasses from previous seasons remelted sugar /other sources	--	--
	g) Total Nett molasses produced	<b>468900</b>	<b>387900</b>
<b>6</b>	<b>RECOVERY :- (%)</b>		
	a) Recovery achieved by sugar mill	<b>11.237</b>	<b>11.081</b>
	b) Recovery loss due to BH diversion	<b>0.395</b>	<b>0.506</b>
	<b>c) FRP recovery as per DFPD guidelines.</b>	<b>11.632</b>	<b>11.587</b>
<b>7</b>	Avg.production of final molasses% cane	<b>4.188</b>	<b>3.589</b>
	Avg.production of BH molasses% cane	<b>5.570</b>	<b>5.508</b>
	Avg.production of total molasses% cane	<b>4.582</b>	<b>4.289</b>
<b>8</b>	<b>Bagasse Percent Cane(e)</b>	<b>27.120</b>	<b>26.900</b>
<b>9</b>	<b>Filter Cake Percent Cane</b>	<b>4.889</b>	<b>4.090</b>



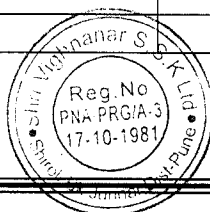
Sr. No.	Particulars	This Season 2023-2024	Last Season 2022-2023
10	<b>STORES USED: -</b>		
	a) Coal %cane i) Trial ii) Season	-- --	-- --
	b) Fire Wood % cane i) Trial ii) Season	-- --	-- --
	c) Other fuel % cane (Furnace oil) i) Trial ii) Season	-- --	-- --
	d) Extra bagasse %cane for pre off- season Coal (Qtls) Fire Wood (Qtls) Other Fuel (Qtls)	Bagasse Saved --	Bagasse Saved --
	e) Lime% cane Total i) Process ii) Spray and E.T.P.	0.151 0.139 0.012	0.109 0.100 0.009
	f) Sulphur % cane	0.043	0.027
	g) Lubrication oil Ltr/100 Qtls. of cane	0.134	0.139
	h) Grease kgs/100 Qtls. cane	0.033	0.056
	i) Hydrogen. peroxide kgs/100 Qtls. of cane	0.006	0.014
	j) Gunny bags Nos/100 Qtls. of cane	--	--
	k) 50 Kg. P.P. bags for sugar / ---"---	11.273	11.220
	l) Washing Soda Kgs./ 100 Qtls. of cane	0.006	0.002
	m) Caustic soda kgs /100 Qtls. of cane	0.343	0.232
	n) Phosphoric acid kg/100 Qtls. of cane	0.073	0.079
	o) Hydros kgs/100 Qtls. of cane	0.006	0.002
	p) Millsanitation chemical kgs /100 Qtls. of cane	0.078	0.072
	q) Ammonium bifluoride kgs /100 Qtls of cane	0.001	0.001
	r) Bleaching powder Kgs/100 Qtls. of cane	0.002	0.002
	s) Settling Agent kgs/ 100 Qtls. of cane	0.014	0.011



Sr. No.	Particulars	This Season 2023-2024	Last Season 2022-2023
11	<b>ANALYSIS: -</b>		
	Cane - Sugar %	13.717	13.358
	Fiber%	12.770	12.700
	Primary Juice - Sugar %	17.900	18.020
	Brix %	20.820	20.920
	Purity	85.975	86.138
	Mixed Juice - Sugar %	12.992	12.758
	Brix%	15.369	15.051
	Purity	84.534	84.766
	Last Roller Juice - Sugar%	3.259	3.310
	Brix %	4.230	4.300
	Purity	77.050	76.977
	Clarified Juice - Sugar%	13.064	12.487
	Brix%	15.400	14.683
	Purity	84.831	85.044
	Unsulphured syrup - Sugar%	46.865	46.900
	Brix%	55.200	55.100
	Purity	84.900	85.118
	Sulphured Syrup - Sugar%	47.350	47.540
	Brix %	55.400	55.602
	Purity	85.469	85.501
	Masseccuite 'A' - Brix %	90.600	90.520
	Purity	88.900	88.722
	Masseccuite 'B' - Brix %	94.300	93.910
	Purity	76.105	75.950
	Masseccuite 'C' - Brix %	100.100	100.230
	Purity	56.223	55.665



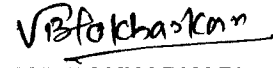
Sr. No.	Particulars	This Season 2023-2024	Last Season 2022-2023
	<b>MOLASSES (C) :-</b>		
	'A' Heavy – Brix %	82.300	82.222
	Purity	76.262	76.242
	'A' Light – Brix %	79.200	80.112
	Purity	89.120	89.115
	'B' Heavy – Brix %	86.919	86.498
	Purity	53.285	53.728
	'B' Light – Brix %	--	--
	Purity	--	--
	'C' Heavy – Brix %	--	--
	Purity	--	--
	'C' Light – Brix %	85.200	84.118
	Purity	63.110	62.720
	<b>SUGAR (AVERAGE) (d):-</b>		
	i) White sugar bagged		
	Sugar %	99.800	99.800
	Moisture%	0.023	0.024
	ii) Raw sugar bagged		
	Pol %	--	--
	Moisture%	--	--
	<b>FINAL MOLASSES- Sugar %</b>	34.869	30.019
	Brix %	87.814	89.724
	Purity	39.707	33.457
	<b>Bagasse - Sugar%</b>	2.212	2.230
	Moisture %	50.184	49.814
	Fiber %	47.087	47.212
	<b>Filter cake – Sugar %</b>	1.084	1.222
	Boiler feed water- Temp. ° C	92	92
	PH	9.1	9.0
	Clear Juice- PH/ Temp. ° C	7.0/98	7.0/98
<b>12</b>	<b>MILL EXTRACTION BOILING HOUSE EXTRACTION AND OVERALL EXTRACTION: -</b>		
	Mill Extraction	95.626	95.508
	Reduced Mill Extraction	95.732	95.589
	Boiling House Extraction	85.492	90.641
	Red. Boiling House Extraction	85.496	90.643
	Overall Extraction	81.753	86.569
	Reduced Overall Extraction	81.847	86.637




Sr. No.	Particulars	This Season 2023-2024	Last Season 2022-2023
<b>13</b>	<b>SUGAR BALANCE: (CANE = 100)</b>		
	Sugar in cane	13.717	13.358
	Sugar in mixed Juice	11.117	12.758
	Sugar in bagasse	0.600	0.600
	Sugar in filter cake	0.053	0.049
	Sugar in BHeavy molasses	0.734	0.934
	Sugar in final molasses	1.045	0.684
	Sugar in sugar	11.214	11.059
	Sugar undetermined	0.071	0.032
	<b>TOTAL LOSSES</b> (In Bagasse, Filter Cake, Molasses & Undetermined)	<b>2.503</b>	<b>2.299</b>
<b>14</b>	<b>AREA &amp; YIELD OF CANE IN FACTORY FARM</b>		
	Total area farm (Hect)	50.00	42.00
	Area under cane (Hect.)	7.00	11.00
	Production of cane (Qtls.)	4133.780	3853.760
	Average yield per Hect.	59.054	48.172
	a) Plant Hect.	7.00 Hect for crushing & remaining for seed purpose	8.00 Hect for crushing & remaining for seed purpose
	b) Adsali Hect.	--	--
	c) Ratoon Hect.	--	--

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

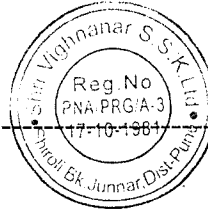
Date – 10.05.2024

  
(V.B. POKHARKAR)  
**LAB-IN-CHARGE**

  
(A.B. SALUNKHE)  
**CHIEF CHEMIST**

  
(BHASKAR GHULE)  
**MANAGING DIRECTOR**

**Shri Vighnagar Sahakari Sakhar Karkhana Ltd.**  
**Junnar/Ambegaon, Dist- Pune.**



**NOTES: -**

- a) Outstation cane weighed and purchased at a center other than at the factory gate.
- b) For Carbonation factories only.
- c) In case of three massecuite system brix and purity of C- heavy, and D- Light molasses are not to be given.
- d) Sugar means direct 'POL'.
- e) Bagasse Percent cane =  $100 + \text{added water Percent cane} - \text{Gross Mixed Juice Percent cane}$ .
- f) Gross season means the total numbers of days from the date of the start to the date of closure including both the days.
- g) Duration of the season – This is calculated by dividing the hours of actual crushing by 22.
- h) GROSS RECOVERY AS PER GUIDELINES=  $\text{MJ\% Cane} \times (\text{J}-35.60/0.644\text{XJ})1.002$   
Where J= M.J.Purity

**REMARKS :-**

- \*  
BH molasses – Cane crushing- 291370 MT, Production -16230 MT – 5.570%Cane  
CH molasses – Cane crushing- 732055 MT, Production -30660 MT – 4.188 %Cane



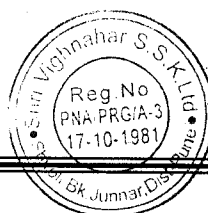


**SHRI VIGHNAHAR SAHAKARI SAKHAR KARKHANA LTD.**

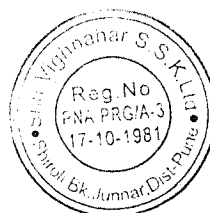
**JUNNAR/AMBEGAON**

**-: ADDITIONAL INFORMATION: - SEASON - 2023-2024**

Sr.No.	Particulars	This Season 2023-2024	Last Season 2022-2023
1	<b>Mill Extraction.</b>	95.626	95.508
2	<b>Reduced Mill Extraction</b>		
	i) Deer	95.732	95.589
	ii) Mittal.	95.720	95.580
3	<b>Boiling House Extraction</b>	85.492	90.641
4	<b>Reduced Boiling House Extraction</b>		
	i) Gundu Rao	85.496	90.643
	ii) Noel Deer	86.007	86.930
5	<b>Overall Extraction</b>	81.753	86.569
6	<b>Reduced Overall Extraction</b>		
	i) Gundu Rao	81.847	86.670
	ii) Noel Deer	81.847	86.645
	iii) Mittal Gundu Rao	81.837	86.637
7	<b>Added water % fiber</b>	222.279	229.820
8	<b>Added water extracted in mixed juice % added water</b>	90.595	102.213
9	<b>Undiluted juice lost in bagasse %fiber</b>	29.285	29.330
10	<b>Crushing rate (24 Hrs) M.T.</b>		
	i) Including stoppages	5750.925	5716.267
	ii) Excluding stoppages	5893.042	5888.406
	iii) Sanctioned Capacity	5000	5000
11	<b>E.R.Q.V. :-</b>		
	i) Mixed Juice/Primary Juice	96.863	97.009
	ii) Last mill juice / primary juice	80.587	80.145
12	<b>Hrs. lost % Hrs. available</b>	2.41	2.923
13	<b>Java Ratio</b>	74.316	74.129
14 a)	<b>BH Molasses produced actual to theoretical</b>	97.162	100.004
14 b)	<b>CH Molasses produced actual to theoretical</b>	94.788	95.373
15	<b>Virtual purity of final Molasses</b>	44.225	42.546
16	<b>Clarification efficiency</b>	97.333	97.427
17	<b>Clarification factor</b>	2.667	2.573
18	<b>Capacity Utilization a) In. Stoppages</b>	115.019	114.325
	(24Hrs ) b) Ex. Stoppages	117.861	117.768



Sr. No	Particulars	This Season 2023-2024	Last Season 2022-2023
<b>19</b>	<b><u>Massecuite Percent cane</u></b>		
	i) 'A' massecuite Percent	25.550	25.170
	ii) 'B' massecuite Percent	9.430	10.280
	iii) 'C' massecuite Percent	5.120	4.450
	<b>Total</b>	<b>40.100</b>	<b>39.900</b>
<b>20</b>	<b><u>PURITY -</u></b>		
	i) 'B' fore worker sugar	93.510	93.522
	ii) 'C' fore worker sugar	84.915	84.802
	iii) 'C' after worker sugar	94.710	94.601
<b>21</b>	<b><u>Milling Data-</u></b>		
	i) Cane preparatory index	85.130	86.098
	ii) Avg. temp. of added water ° C	90.00	90.00
	iii) Pol Percent last expressed Juice	3.260	3.310
	iv) Primary extraction	75.010	74.405
<b>22</b>	<b><u>Bagasse Data M.T. -</u></b>		
	i) Bagasse sold / used before start of season	2716.590	1799.975
	ii) Opening balance at the start of season.	2299.995	472.425
	iii) Bagasse production during the season	277550.000	243270
	iv) Bagasse purchase from outside	2104.500	--
	v) Total Available Bagasse (ii + iii+iv)	281954.495	243742.425
	vi) Bagasse used as a fuel of sugar plant	192675.00	169141.000
	vii) Bagasse used as a fuel of distillery plant	27105.600	13837.000
	viii) Bagasse used for oliver	10234.250	9044.000
	ix) Bagasse used as a fuel of co-gen plant	47806.12	43041.000
	x) Total Bagasse used (vi + vii+viii+ix)	277820.97	235063.000
	xi) Bagasse saved (v - x -iv )	4133.525	8679.425
	xii) Bagasse saved % cane	0.404	0.960
	xiii) Baled Bagasse sold	--	3108.330
	xiv) Loose Bagasse sold	-	2681.095
	xv) Closing Balance at the end of season	4133.525	2890.000
<b>23</b>	<b><u>Electricity Generation ( KWH)</u></b>		
	i) Units generated by T.G.Set	76629296	64992079
	ii) Units generated by D.G.Set	14550	83300
	iii) Units purchased from M.S.E.B.	17924	69404
	iv) Total units generated & purchased	76661770	65144783



Sr. No.	Particulars	This Season 2023-2024	Last Season 2022-2023			
24	<b>Electricity Consumption</b>					
	i) For Sugar Plant	26360491.50	20966211			
	ii) For Office & Colony	781070	379692			
	iii) For Distillery +Incineration Boiler	3047631	1331680			
	iv) For Co-generation	5229726	4579200			
	v) Electricity Consumption KWH / TCH	25.76	23.18			
25	<b>Co-Generation (KWH)</b>					
	Total Unit Generated	76629296	64992079			
	Total Unit Exported	41262851.50	37388000			
26	<b>Steam Generation &amp; Usage (MT)</b>					
	i) Total steam Generated	562279	479160			
	ii) Steam used for sugar plant	404867	358580			
	iii) Steam used for Distillery + Incineration Boiler	56957	29335			
	iv) Steam used for others [cogen & misc.]	100455	91245			
27	<b>Steam Consumption % cane</b>					
	i) For sugar plant	54.94	52.98			
	ii) For Distillery+Incineration Boiler	39.56	39.65			
	III) For Others (co-gen & Misc)	5.56	3.24			
		9.82	10.09			
28	<b>GRADEWISE SUGAR PRODUCTION</b>					
	<b>Sr.No</b>	<b>Grade</b>	<b>Season 2023-2024</b>		<b>Season 2022-2023</b>	
			<b>Quintals</b>	<b>%</b>	<b>Quintals</b>	<b>%</b>
	1)	L-30	26500	2.304	20300	2.026
	2)	M-30	350500	30.478	340300	33.959
	3)	S-30	544500	47.348	542700	54.156
	4)	SS-30	228500	19.870	98800	9.859
	5)	Raw /Brown Sugar	--	--	--	--
		TOTAL-	1150000	100.000	1002100	100.000

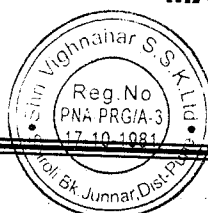
**NAME & ADDRESS OF:-**

Sr. No.	Managing Agent	Co-operative
1	Managing Director	Shri B.S.Ghule
2	Secretary	Shri A.R. Thorve
3	Chief Engineer	Shri B.B.Shinde
4	Dy Chief Accountant	Shri P.N.Benke
5	Chief Agriculture Officer	Shri S.M.Patil

*V.B. Pokharkar*  
(V.B.POKHARKAR)  
**LAB IN-CHARGE**

*A.B. Salunkhe*  
(A.B.SALUNKHE)  
**CHIEF CHEMIST**

*Bhaskar Ghule*  
(BHASKAR GHULE)  
**MANAGING DIRECTOR**



**Shri Vighnagar Sahakari Sakhar Karkhana Ltd.Junnar/Ambegaon,  
ADDITIONAL INFORMATION OF POL BALANCE**

**BH POL BALANCE**

Sr.No	Particulars	Actual	Estimated
1	Pol in MJ	12.493	12.493
2	Pol in FC	0.054	0.054
3	Pol in BH	2.580	--
4	Pol in CH (FM)	--	1.197
5	Pol in Sugar	9.809	11.192
6	Pol in unknown	0.050	0.050
7	Total Boiling House Losses	2.684	1.301

**CH POL BALANCE**

Sr.No	Particulars	Actual	Estimated
1	Pol in MJ	13.365	13.365
2	Pol in FC	0.052	0.052
3	Pol in BH	--	--
4	Pol in CH (FM)	1.466	1.466
5	Pol in Sugar	11.774	11.774
6	Pol in unknown	0.079	0.079
7	Total Boiling House Losses	1.597	1.597

**Total POL BALANCE**

Sr.No	Particulars	Actual	
1	Pol in MJ	11.117	
2	Pol in FC	0.053	
3	Pol in BH	0.734	
4	Pol in CH (FM)	1.045	
5	Pol in Sugar	11.214	
6	Pol in unknown	0.071	
7	Total Boiling House Losses	1.903	

**Recovery Loss due to BH Diversion = 0.395**

**Actual Recovery achieved by Factory = 11.237**

**FRP Recovery AS per guidelines = 11.632**

