

THE SHAHABAD CO-OPERATIVE SUGAR MILLS LTD.



THE SHAHABAD CO-OPERATIVE SUGAR MILLS LTD.

R.T. 8 (C)

(FINAL MANUFACTURING REPORT)

SEASON 2021 - 22

Sh. Mukul Kumar
I.A.S.
Chairperson

Sh. Rajiv Prashad
H.C.S.
Managing Director

CA Deepak Khator
Chief Account Officer

Subhash Chander
Chief Engineer

Sushil Kumar Singh
Chief Chemist

Munish Aggarwal
Dy. C.E. (M)

Satbir Singh
Dy. C.E. (Co-gen)

Vineet Kumar
Dy. Chief Chemist

Ajaib Singh
Cane Manager

Jatinder Kumar Bains
Lab. Incharge

सर्वोत्तम सहकारी चीनी मिल



Gram : SUGAR

(O) 01744-240188

(R) 01744-240282

Fax: 01744-240118

E-mail- scsmsbd@gmail.com

The Shahabad Co-Operative Sugar Mills Ltd.

Shahabad (M.), Distt:- Kurukshetra, Haryana - 136135

Rsf. No. SMS / Mfg. / 2022 / 1129-G

Dated : 10-06-2022

To,

Excise Superintendent,
Central Excise,
Circle: Kurukshetra.

Dear Sir,

We are submitting herewith our final manufacturing report for the season 2021-22 in Form RT8 (C) which may kindly be acknowledged.

Thanking you,

Yours faithfully,

Rajiv Prashad
H.C.S

MANAGING DIRECTOR

Copy to:-

1. The Chief Secretary, Govt. of Haryana, Chandigarh.
2. The Secretary, Govt. of India, Ministry of Agriculture, Krishi Bhawan, New Delhi
3. The Chief Director, Govt. of India, Ministry of Food, Directorate of Sugar, Krishi Bhawan, New Delhi
4. The Commissioner & Secretary of Govt. of Haryana, Co-Operation Deptt., Chandigarh.
5. The Registrar, Co-operative Societies, Haryana, Sector-2, Panchkula.
6. The Excise & Taxation Commissioner, Haryana, Chandigarh.
7. The Labour Commissioner, Haryana, Chandigarh.
8. The Director of Agriculture, Haryana, Chandigarh.
9. The Cane Commissioner, Haryana, Kandi Bhawan, Sector-21, Panchkula.
10. The Deputy Commissioner, Kurukshetra
11. The Managing Director, National Fed. of Coop. Sugar Factories Ltd., Ansal Plaza, New Delhi
12. The Managing Director, Haryana State Fed. of Coop. Sugar Mills Ltd., Bay 49-52, Sec.2, Panchkula
13. The Managing Director, National Coop. Development Corporation 4, Siri Institutional Area, Haus Khas, New Delhi
14. The Managing Director (All Coop. Sugar Mills) in State of Haryana.
15. The Secretary General Indian Sugar Mills Association, Ansal Plaza Aug. Kranti Marg, New Delhi
16. The P.S. Hon'ble Chief Minister, Haryana, Chandigarh.
17. The P.A. to Hon'ble Cooperation Minister, Haryana, Chandigarh
18. The Director, Economics & Statistics, Directorate of Economics & Statistics Krishi Bhawan, New Delhi
19. The Secretary, The Sugar Technologists Association of India, Ansal Plaza Aug. Kranti Marg, New Delhi
20. The Chemical Examiner, Central Excise Revenue, Central Laboratory, Agriculture Research Institute, New Delhi
21. The Director, National Sugar Institute, Kanpur
22. The Chairman, Haryana State Pollution Control Board, Panchkula.
23. The Regional Officer, Haryana State Pollution Control Board, Panchkula

Form R.T.8(C)
(For Central Sugar Factories)
FINAL MANUFACTURING REPORT FOR SEASON 2021-2022.

Central Excise Rule 83

Name and Address of Factory

THE SHAHABAD CO-OP SUGAR MILLS LTD.,
SHAHABAD MARKANDA – 136 135
DISTT: - KURUKSHETRA (HARYANA)
Phone No. : 01744-240188, 01744-240118

Regd. No. of Factory: - 759

:Dated 09-01-1976

Clarification process used

:Double Sulphitation

Sr. No.	Particulars	This Season 2021-2022	Last Season 2020-2021
1.	TIME ACCOUNT		
	Date of Start	18-11-2021 at 2.00PM	12-11-20 at 6.00 AM
	Date of Finish	14-05-2022 at 6.00AM	06-05-2021 at 6.00 AM
	Gross season (days)	178	176
	Duration of season (days)	174.49	178:53
	Total hours actual crushing	3838.75	3927.75
	Total hours lost	425.25 (9.97%)	296.25 (7.01%)
	i) Cane Shortage	33.50 (0.79%)	-----
	ii) Mechanical	44.66 (1.05%)	73.58 (1.74%)
	iii) Hydro /grid Failure	12.00 (0.28%)	33.42 (0.79%)
	iv) Process	03.00 (0.07%)	-----
	v) General Cleaning/ Short Cleaning	92.00 (2.15%)	123.00 (2.91%)
	vi) Grower Strike	-----	10.00 (0.24%)
	vii) Misc. (including bad weather etc)	240.08 (5.63%)	56.25 (1.33%)
2.	CANE CRUSHED		
	i) Own estate cane Qtls.	908.75	601.55
	ii) Gate cane Qtls.	6544278.85	6763247.45
	iii) Out station cane Qtls.	769770.85	917279.10
	Rail cane	-----	-----
	Other than Rail Cane	-----	-----
	iv) Total	7314958.45	7681128.10
3.	JUICE AND ADDED WATER		
	Average gross mixed juice percent cane	108.95	107.74
	Dirt correction % mixed juice	0.40	0.40
	Average net mixed juice % cane	108.51	107.31
	Total net mixed juice obtained Qtls.	7937421.00	8242507.00
	Average added water % Cane	36.15	34.65

Sr. No.	Particulars	This Season 2021-2022	Last Season 2020-2021
4.	SUGAR		
	Total Sugar bagged in 0.50 Qtls Bags (nos.)	*1478700.00	**1669200.00
	Total Sugar Bagged in 1.00 Qtls. Bags (nos.)	0.00	0.00
	Total Sugar Quantity bagged in Qtls	739350.00	834600.00
	Sugar in Process, if any Qtls.	303.00	250.00
	Total Sugar made Qtls.	739653.00	834850.00
	Sugar recovered from previous season's process	160.00	260.00
	Sugar from previous season's remelted Sugar or other sources	467.00	446.00
	Total net Sugar made Qtls.	739026.00	834144.00
5.	MOLASSES		
	Total Molasses sent out Qtls	342430.00	355025.00
	Molasses in process if any Qtls	130.00	94.00
	Total Molasses produced Qtls.	342560.00	355119.00
	Molasses received from previous season's process Qtls	189.00	167.00
	Molasses from previous season's remelted sugar or other sources	157.00	136.00
	Total net molasses produced Qtls.	342214.00	354816.00
6.	RECOVERY		
	Average recovery of Sugar percent cane	10.10	10.86
	Average production of final molasses percent cane	4.68	4.62
7.	BAGASSE PERCENT CANE (E)	27.21	26.91
	Filter Cake percent cane	3.00	3.00
8.	STORE USED		
	a) Coal percent		
	i) Trial Season	-----	-----
	ii) Season	-----	-----

* Including 14700 bags BISS of 50 Kg. each total 7350 Qtls. above 90% pol.

** Including 9600 bags BISS of 50 Kg. each total 4800 Qtls. above 90% pol and 4150 Qtls (out of 4800 Qtls BISS) was sold out before start of season 2021-22.

Sr. No.	Particulars	This Season 2021-2022	Last Season 2020-2021
b)	Fire Wood Percent Cane		
	i) Trial	0.007	0.006
	ii) Season	-----	-----
c)	Other fuel percent cane		
	i) Trial saw dust		
	ii) Trial Bagasse	-----	-----
	For previous season		
	Coal	-----	-----
	Fire wood	-----	-----
d)	Lime percent cane including (ETP & Spray Pond)	0.19 0.06	0.19 0.06
e)	Sulphur Percent Cane	0.07	0.06
f)	Lubricant Kg. (Oil & grease) (Per 100 Qtls. Cane)	0.49	0.50
g)	P. P. Bags for Sugar Number (20kg.) (per 100 Qtl. Cane)	0.00	0.00
h)	P.P. Bags for sugar number (50 Kg.) (per 100 Qtls. Cane)	20.37	21.27
i)	Gunny bags for Sugar number (50kg.) (per 100 Qtls. Cane)	0.00	0.08
j)	Gunny bags for Sugar number (100 kg.) (per 100 Qtl. Cane)	0.00	0.00
k)	Washing soda kg. (per 100 Qtl. Cane)	0.06	0.06
l)	Biocide (Q.A.C+ Bhusan) Kg./100 Qtl Cane	0.10	0.07
m)	Filter aids kg. (Per 100 Qtl. Cane)	0.017	0.015
n)	Ammonium bi fluoride (per 100 Qtl. Cane)	0.00	0.00
o)	Viscosity Reducer (per 100 Qtl. Cane)	0.09	0.20
p)	Anti foam Kg./ 100 Qtl. Cane	0.52	0.46
q)	Bleaching Powder (per 100 Qtl. Cane)	0.009	0.007
r)	Formline Kg. (per 100 Cane)	0.002	0.001
s)	Scale Softener (per 100 Qtl. Cane)	0.09	0.09
t)	Caustic Soda Kg for Cleaning (per 100 Qtl. Cane)	0.35	0.34
u)	Seed Slurry Kg (per 100 Qtl. Cane)	0.09	0.09

Sr. No.	Particulars		This Season 2021-2022	Last Season 2020-2021
9.	ANALYSIS(D)			
	Cane	Sugar percent	12.04	12.77
		Fibre percent	12.92	12.88
	Primary Juice	Sugar percent	14.78	15.49
		Brix percent	18.28	18.96
		Purity	80.85	81.70
	Mixed Juice	Sugar percent	10.60	11.42
		Brix percent	13.38	14.24
		Purity	79.22	80.20
	Last Juice	Sugar percent	1.51	2.00
		Brix percent	2.15	2.88
		Purity	70.23	69.44
	Filtrate juice	Sugar percent	8.89	9.46
		Brix present	11.59	12.32
		Purity	76.70	76.79
	Clear Juice	Sugar percent Brix percent Purity	10.79 13.55 79.63	11.62 14.43 80.52
	Unsulphured Syrup	Sugar percent Brix percent Purity	44.69 56.14 79.60	48.17 59.85 80.48
	Sulphured Syrup	Sugar percent Brix percent Purity	44.69 56.14 79.60	48.18 59.86 80.49
	Masseccutes A-Masseccuite	Brix percent Purity	95.82 86.14	95.90 86.91
	B-Masseccuite	Brix percent Purity	96.92 74.52	97.23 74.64
	C-Masseccuite	Brix percent Purity	101.18 55.21	100.77 55.19
	D-Masseccuite	Brix percent Purity	---- ----	---- ----
	Molasses (c) A-Heavy	Brix percent Purity	80.60 75.14	80.90 75.35

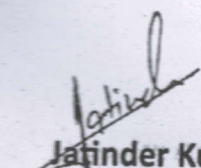
Sr. No.	Particulars			This Season 2021-2022	Last Season 2020-2021
	A-Light		Brix percent Purity	73.43 90.68	73.63 90.57
	B-Heavy		Brix percent Purity	83.91 53.43	84.28 55.05
	B. Light		Brix percent Purity	---- ----	---- ----
	C-Heavy		Brix percent Purity	---- ----	---- ----
	C-Light		Brix percent Purity	71.82 69.66	71.74 70.49
	D-Light		Brix percent Purity	---- ----	---- ----
	Sugar Average	i) White Sugar Bagged iv) Raw Sugar Bagged	Sugar percent Moisture percent Moisture percent Red. Sugar percent Ash percent	99.90 0.03 ---- ---- ----	99.90 0.03 ---- ---- ----
	Final Molasses		Sugar percent Brix percent Purity	27.70 90.06 30.76	27.98 91.74 30.50
	Bagasse		Sugar Percent Water percent Fibre percent	2.00 49.67 47.47	1.92 49.36 47.86
10	Filter Cake	Lime Kiln Gas Co2 Percent Boiler Feed Water Temp* Clear Juice Temp.	Sugar percent	1.66 ---- ---- 145°C 101°C	1.68 ---- ---- 145°C 101°C
11.	Mill Extraction, Boiling House Extraction and over all Extraction Mill Extraction Reduced Mill Extraction Boiling House Extraction Reduced Boiling House Extraction Over All Extraction Reduced over all Extraction			95.51 95.68 87.83 91.82 83.89 87.85	95.93 96.07 88.65 91.89 85.04 88.28

* Temperature of feed water inlet to economizer through H.P. Heater.

Sr. No.	Particulars		This Season 2021-2022	Last Season 2020-2021
12.	Sugar Balance			
	i) Sugar in cane		12.04	12.77
	ii) Sugar in mixed juice		11.50	12.25
	iii) Sugar in bagasse		0.54	0.52
	iv) Sugar in filter cake		0.05	0.05
	v) Sugar in final molasses		1.30	1.29
	vi) Sugar in sugar		10.09	10.85
	vii) Sugar in undetermined		0.06	0.06
	viii) Total losses (in bagasse, Filter cake, molasses & Undetermined)		1.95	1.92
13.	Area and yield of cane in factory farm			
	Total area of farm hectare		15.00	15.00
	Area under Cane hectare		15.00	12.00
	Production of cane for seed Qtls.		1164.45	1448.65
	For crushing qtls		908.75	601.55
	Variety	COH-160, CO-238, CO-05011, COJ-85, Co-0118, CO-12029, COL-14201, CO-15035, Co-15023, Co-15027, COS-13235	COH-160, Co-238, Co-05011, COJ-88, Co-0118, Co-12029, Co-167, Co-15023, Co-15027	
a)	Plant	COH-160, Co-0118, Co-12029, Co-0238, COJ-85, Co-15023, Co-15027, Cos-13235, COL-14201, CO-15035	COH-160, Co-0118, Co-12029, Co-0238, COJ-85, Co-15023, Co-15027	
b)	Ratoon	COH-160, CO-0118, CO-12029, CO-0238, COJ-85, CO-15023, CO-15027	COH-160, Co-0118, Co-167, Co-0238, COJ-88	

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

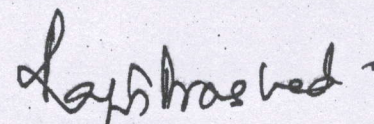
FOR "THE SHAHABAD CO-OP SUGAR MILLS LTD.,"



Jatinder Kumar Bains
Lab Incharge



Sushil Kumar Singh
Chief Chemist



Rajiv Prashad
H.C.S.
MANAGING DIRECTOR

Date: - 09-06-2022

Signature of the owner or person authorized

Note:-


- a) Out station cane is the same weighed and purchased at the center other than to the factory gate
- b) In case of three massecuite system, the brix and purity C-Heavy and D-Light Molasses are not to be given.
- c) Sugar means Direct Pol.
- d) Bagasse percent cane = $100 + \text{Added water percent cane} - \text{Mixed juice (Gross) percent cane}$.
- e) Gross season means the total numbers of days from the date of start to the date of close both days are inclusive.
- f) Duration of season, this is calculated by dividing the total hours actual crushing by 22.


The Shahabad Coop Sugar Mills Ltd., Shahabad (M)

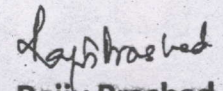
Distt: - Kurukshetra (Haryana)

ADDITIONAL INFORMATION ALONGWITH THE FINAL MANUFACTURING REPORT.

Sr. No.	Particulars	This Season 2021-2022	Last Season 2020-2021
1.	Mill Extraction	95.51	95.93
2.	Boiling House Extraction	87.83	88.65
3.	Over all Extraction	83.89	85.04
4.	Reduced Mill Extraction	95.68	96.07
5.	Undiluted Juice Lost% Fibre	32.84	30.52
6.	Virtual Purity of Final Molasses	31.69	31.49
7.	Molasses Actually Produced% Theoretical	100.00	100.00
8.	Reduced Boiling House Extraction		
	i). Gundu Rao	91.63	91.27
	ii). Noel Deer	91.82	91.89
9.	Reduced Over All Extraction		
	i). Gundu Rao	87.67	87.68
	ii). Noel Deer	87.85	88.28
10.	Added Water% Fibre	279.80	269.02
11.	Rate of Crushing per 24 hours		
	i). Including stoppage Qtls.	41172.00(82.34%)	43643.00(87.29%)
	ii). Excluding stoppage Qtls.	45773.00(91.47%)	46935.00(93.87%)
	iii). Sanctioned capacity Qtls.	50000.00	50000.00
	iv). Co-gen Plant Capacity	24MW	24MW
12.	R.Q.V.		
	i). MJ/PJ	96.88	97.18
	ii). LMJ/PJ	79.68	76.93
13.	Masseccuite% Cane		
	A-Masseccuite % Cane	28.51	30.56
	B-Masseccuite % Cane	11.80	11.60
	C1-Masseccuite % Cane	2.00	2.06
	C-Masseccuite % Cane	8.25	7.95
	Total Masseccuite % Cane	50.56	52.17
14.	Power Export in Lacs. KWH (Units)	475.69	484.88
15.	Grade wise sugar production (Qtls)		
	L-30	63150.00 (8.54%)	40850.00 (4.89%)
	M-30	504300.00 (68.21%)	612100.00 (73.34%)
	S-30	164550.00 (22.26%)	176850.00 (21.19%)
	BISS	7350.00	4800.00
	Total	739350.00	834600.00


Jatinder Kumar Bains
Lab Incharge


Sushil Kumar Singh
Chief Chemist


Rajiv Prashad
H.C.S.
MANAGING DIRECTOR



The working of the Shahabad Coop. Mill has been praise-worthy right from the inception which proves from the following award.

NATIONAL AWARDS

THE SHAHABAD COOPRATIVE SUGAR MILLS LTD., SHAHABAD (M.)

NATIONAL AWARDS WINNER FOR	YEAR
1. Technical Efficiency Award	1988-89
2. Cane Development Award	1988-89
3. Technical Efficiency Award	1989-90
4. Technical Efficiency Award	1990-91
5. Cane Development Award	1991-92
6. Technical Efficiency Award	1993-94
7. Technical Efficiency Award	1994-95
8. Financial Management Award	2002-03
9. Best Coop. Sugar Mill Award	2002-03
10. Financial Management Award	2003-04
11. Best Cooperative Sugar Factory Award	2003-04
12. Cane Development Award	2003-04
13. Best Cooperative Sugar Mill Award	2004-05
14. Cane Development Award	2005-06
15. Technical Efficiency Award	2006-07
16. Best Cooperative Sugar Factory Award	2007-08
17. Best Cooperative Sugar Factory Award	2008-09
18. Technical Efficiency Award	2009-10
19. Technical Efficiency Award	2010-11
20. Technical Efficiency Award	2011-12
21. Technical Efficiency Award	2012-13
22. Technical Efficiency Award	2013-14
23. Technical Efficiency Award	2014-15
24. Technical Efficiency Award	2015-16
25. Best Cooperative Sugar Mill Award	2016-17
26. Technical Efficiency Award	2017-18
27. Highest Cane Crushing Award	2018-19
28. Technical Efficiency Award	2020-21