



क्षेत्रीय कार्यालय

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड, मुजफ्फरनगर

U.P. POLLUTION CONTROL BOARD, MUZAFFARNAGAR

6-बी, नई मण्डी, मुजफ्फरनगर-251001 (उ०प्र०)

संदर्भ सं०
Ref. No. 234/OA-71/चन्द्रशेखर/मुजफ्फरनगर/2021

दिनांक
Dated 02-07-2021

To,

The Registrar
National Green Tribunal
Principal Bench
New Delhi.
E-mail : judicial-ngt@gov.in

Sub. : Report of M/s. Triveni Engineering & Industries Ltd., Sugar Unit Khatauli, Muzaffarnagar in compliance with the direction dated 22.03.2021 issued by Hon'ble National Green Tribunal in OA 71/2021 Chandrashekhar Vs. State of U.P. & Others.

Respected Sir,

In reference to the above subject, the joint report of Central Pollution Control Board and U.P. Pollution Control Board is annexed herewith for your kind perusal and information please.

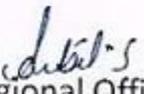
Yours faithfully,


(Ankit Singh)

Regional Officer

Copy to :

1. Chief Environmental Officer (Circle-3), U.P. Pollution Control Board, Lucknow for information.
2. Chief Law Officer, U.P. Pollution Control Board, Lucknow for information.
3. Shri Pradeep Mishra, Advocate, Hon'ble Supreme Court/NGT, New Delhi for perusal and necessary action.


Regional Officer



Report of M/s. Triveni Engineering and Industries Limited, Sugar Unit Khatauli, Muzaffarnagar in reference to the directions issued in N.G.T. O.A. No. 71/2021 Chandrashekhar Vs. State of U.P. & Others.

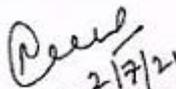
Hon'ble N.G.T. order dated 22.03.2021 issued the following directions in O.A. No. 71/2021 Chandrashekhar Vs. State of U.P. & Others :

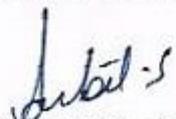
"2., let a Joint Committee comprising the CPCB, State PCB and District Magistrate, Muzaffarnagar, UP furnish a factual and action taken report in the matter, following due process of law, within two months by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDG/OCR Support PDF and not in the form of Image PDF. The State PCB will be the nodal agency for coordination and compliance."

Due to Covid pandemic situation during the month of May and June 2021, inspection of M/s. Triveni Engineering and Industries Limited, Sugar Unit Khatauli, Muzaffarnagar could not be carried out by the Joint Committee. Moreover, lockdown ended in district Muzaffarnagar in the first week of June 2021. But, the industry M/s. Triveni Engineering and Industries Limited, Sugar Unit Khatauli had shut down its operation and ended the crushing season on dated 22.05.2021. The industry has submitted the letter dated 29.06.2021 and RT-8C which is annexed as Annexure-1.

As the industry is not operational presently, the efficacy of installed pollution control systems cannot be verified. In view of this, the committee recommends that the inspection of industry may be carried out once the crushing season 2021-22 starts.

The report is submitted for perusal and further necessary action.


(Reena Satavan)
Scientist 'D'
CPCB, Delhi


(Ankit Singh)
Regional Officer
UPPCB, Muzaffarnagar

Triveni
ENGINEERING & INDUSTRIES LTD.

Sugar Unit : Khatauli
Vill.- Sheikhpura, Khatauli-251201 Distt. Muzaffarnagar (U.P.)
Tel.: 9897133335, 01396- 272347
GSTIN No. :- 09AABCT6370L1ZW
Principal Place of Business-Khatauli

श्रीमान क्षेत्रीय अधिकारी
उ०प्र० प्रदूषण नियंत्रण बोर्ड
6-बी नई मण्डी, मुजफ्फरनगर

दिनांक:- 29.06.2021

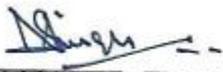
विषय:- पेराई सत्र 2020-21 के समापन के सम्बन्ध में।

महोदय,

सादर अवगत कराना है कि त्रिवेणी इन्जीनियरिंग एण्ड इन्डस्ट्रीज लि०, शुगर यूनिट-खतौली का पेराई सत्र दिनांक 22.05.2021 को प्रातः 5:15 बजे समाप्त हो गया है।

महोदय को सूचनार्थ प्रेषित।

भवदीय


कारखाना प्रबन्धक

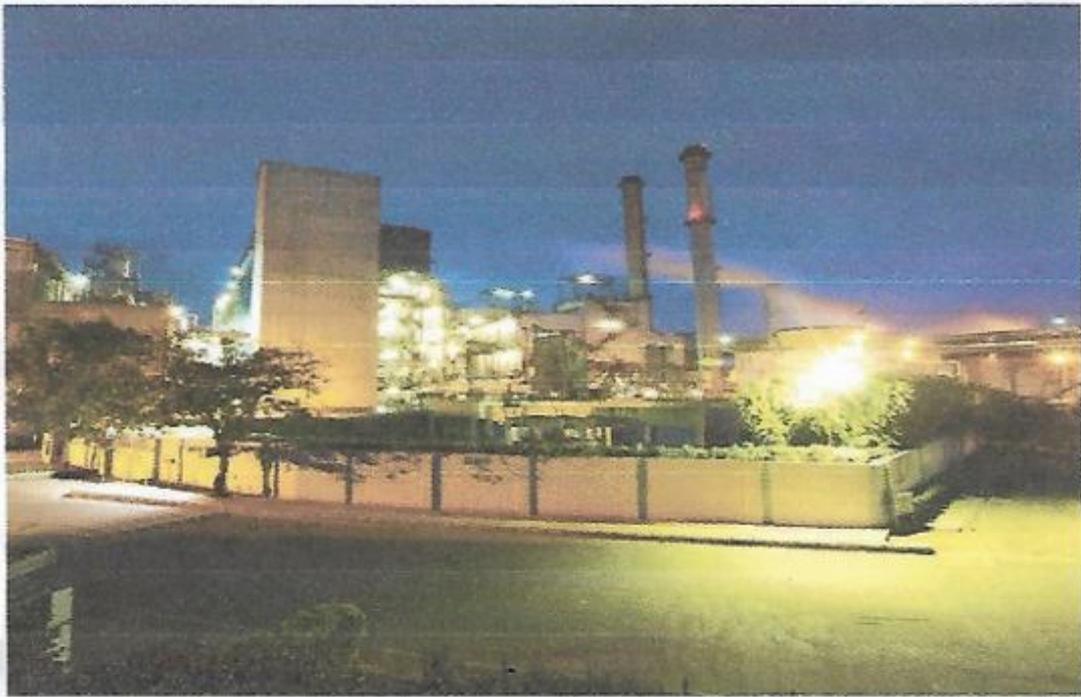


ENGINEERING & INDUSTRIES LTD.

Final Manufacturing Report

RT-8 (C)

Season : 2020-2021



Unit : Khatauli
Village : Sheikhpura
Post : Khatauli -251201
Distt : Muzaffar Nagar
Phone : 9897133335, 9897544464
Web : www.trivenigroup.com

Registered Office
Deoband : 247554
Distt : Saharanpur
Phone : 01336-222185
Fax : 01336 -222220

FORM RT. 8(C) S/A
(FOR CENTRAL SUGAR FACTORIES)

FINAL MANUFACTURING REPORT FOR THE SEASON 2020 - 2021

(RULE - 83)

NAME AND ADDRESS OF FACTORY

: TRIVENI ENGG. & INDUSTRIES LTD.
SUGAR UNIT- KHATAULI.

REGISTER NO. OF FACTORY

: S/14

CLARIFICATION PROCESS USED

: DMPiE(Defeco melt phosphotation and ion exchange).

S. NO	PARTICULARS	THIS SEASON	LAST SEASON
		2020 - 2021	2019 - 2020
1.	TIME ACCOUNT		
	DATE OF START	28/10/2020 at 12:00 Hrs.	30/10/2019 at 11:00 Hrs.
	DATE OF CLOSE	21/05/2021 at 5:15 Hrs. (Calendar date 22.05.21)	11/05/2020 at 14:00 Hrs.
	GROSS SEASON (days) (f)	205.72	225.13
	DURATION OF SEASON (g)	161.58	168.58
	TOTAL HOURS ACTUAL CRUSH	3554.77	3708.75
	TOTAL HOURS LOST	1382.48	1694.25
	I) PROCESS	0.00	0.00
	II) MECHANICAL	41.15	54.58
	III) CO-GEN	13.68	7.72
	IV) CANE SHORTAGE	1249.67	1482.43
	V) FESTIVAL	0.08	0.00
	VI) INCLIMENT WEATHER	26.80	101.52
	VII) GENERAL CLEANING	47.75	39.12
	VIII) MISCELLANEOUS	3.35	8.88
2.	CANE CRUSHED		
	I) OWN ESTATE CANE	Qtls.	0.00
	II) GATE CANE	Qtls.	9392986.34
	III) OUT CENTER CANE (ROAD) (a)	Qtls.	14305481.66
	IV) TOTAL	Qtls.	23698468.00
3.	JUICE AND ADDED WATER		
	AVG. GROSS MIXED JUICE % CANE	%	119.29
	CORRECTION % MIXED JUICE	%	0.74
	AVG. NET MIXED JUICE % CANE	%	118.41
	TOTAL NET MIXED JUICE OBTAINED	Qtls.	28061510.00
	AVG. ADDED WATER % CANE	%	47.52
4.	SUGAR: Total sugar bagged		
	I) NO. OF BAGS (a) 25 Kg	Nos.	0.00
	(b) 50 Kg	Nos.	5371356.00
	(c) 100 Kg	Nos.	0.00
	II) QUANTITY (ISS)	Qtls.	2685678.00
	* (BISS) Brown	Qtls.	2472.00
	Total Quantity	Qtls.	2688150.00
	SUGAR IN PROCESS, IF ANY	Qtls.	40.00
	TOTAL SUGAR MADE	Qtls.	2688190.00
	SUGAR RECO. FROM PREVIOUS SEASON'S LEFT IN PROCESS MATERIAL	Qtls.	139.00
	SUGAR RECO. FROM B.I.S.S. SUGAR OF (KHT.-2019-20)	Qtls.	2175.00
	SUGAR RECO. FROM DAMAGED SUGAR OF (KHT.-2019-20)	Qtls.	4961.00
	SUGAR RECO. FROM BRANDED DAMAGED SUGAR OF (KHT.-2019-20)	Qtls.	3404.00
	SUGAR RECO. FROM HIGH COLOURED SUGAR OF (KHT.-2019-20)	Qtls.	4512.00
	TOTAL NET SUGAR MADE	Qtls.	2672999.00
5.	MOLASSES		
	TOTAL MOLASSES SENT OUT **	Qtls.	1084330.00
	MOLASSES IN PROCESS, IF ANY	Qtls.	185.00
	TOTAL MOLASSES PRODUCED	Qtls.	1084515.00
	MOLASSES RECO. FROM PREVIOUS SEASON'S LEFT IN PROCESS MATERIAL	Qtls.	819.00
	MOLASSES RECO. FROM B.I.S.S. SUGAR OF (KHT.-2019-20)	Qtls.	2796.00
	MOLASSES RECO. FROM DAMAGED SUGAR OF (KHT.-2019-20)	Qtls.	1773.00
	MOLASSES RECO. FROM BRANDED DAMAGED SUGAR OF (KHT.-2019-20)	Qtls.	674.00
	MOLASSES RECO. FROM HIGH COLOURED SUGAR OF (KHT.-2019-20)	Qtls.	279.00
	TOTAL NET MOLASSES PRODUCED	Qtls.	1078174.00

* B.I.S.S. sugar above 90 deg. Pol.

**Includes 566500 Qtls. B-heavy produced from 17th Feb. 2021 to end of the season 2020-21

S.NO	PARTICULARS	THIS SEASON	LAST SEASON	
		2020 - 2021	2019 - 2020	
6.	RECOVERY			
	AVG. RECOVERY OF SUGAR % CANE	11.28	11.67	
	AVG. PRODUCTION OF FINAL MOLASSES % CANE (C- Heavy+B-Heavy)	4.55	4.27	
	BAGASSE PERCENT CANE (e)	28.23	28.22	
	FILTER CAKE PERCENT CANE	4.61	4.77	
7.	STORE USED			
	COAL PERCENT CANE			
	FIRE WOOD PERCENT CANE			
	OTHER FUEL % CANE FURNACE OIL	Ltrs.		
	BAGASSE PERCENT CANE	%	5.35	
	EXTRA BAGASSE % CANE	%		
	TOTAL BAGASSE	%	5.35	
	LIME PERCENT CANE	%		
	(a) Process	%	0.07741	
	(b) Inj+ETP	%	0.00251	
	LUBRICANTS (oil & grease)	Kg / 100 Qtls cane	0.23918	
	GUNNY BAGS of 100 Kg. FOR SUGAR	Nos. / 100 Qtls cane	---	
	GUNNY BAGS of 50 Kg. FOR SUGAR	Nos. / 100 Qtls cane	0.00000	
	H.D.P.E. BAGS of 25 Kg. FOR SUGAR	Nos. / 100 Qtls cane	---	
	H.D.P.E. BAGS of 50 Kg. FOR SUGAR	Nos. / 100 Qtls cane	22.68630	
	SEED SLURRY	Kg / 100 Qtls cane	0.01985	
	WASHING SODA	Kg / 100 Qtls cane	0.00042	
	CAUSTIC SODA	Kg / 100 Qtls cane	0.42619	
	Hydro Chloric Acid	Kg / 100 Qtls cane	0.25035	
	PHOSPHORIC ACID	Kg / 100 Qtls cane	0.53714	
	BLEACHING POWDER	Kg / 100 Qtls cane	0.00000	
	BACTERIOCIDES	Kg / 100 Qtls cane	0.12874	
	Dextranase enzyme	Kg / 100 Qtls cane	0.00000	
	Alpha amaylase enzyme	Kg / 100 Qtls cane	0.00532	
	ANTI FOAM	Kg / 100 Qtls cane	0.01063	
	VISCOCITY REDUCER	Kg/100 Qtls Cane	0.02796	
	FLOCCULENT(Refinery & clarification)	Kg / 100 Qtls cane	0.06593	
	Refined salt for refinery	Kg / 100 Qtls cane	2.81621	
	Colour precipitant (for refinery & raw)	Kg / 100 Qtls cane	0.13988	
	DESCALENT	Kg / 100 Qtls cane	0.02173	
	8.	ANALYSIS		
		CANE	Sugar %	13.61
			Fibre %	13.40
PRIMARY JUICE		Sugar %	16.38	
		Brix %	19.47	
		Purity	84.13	
MIXED JUICE		Sugar %	11.07	
		Brix %	13.42	
		Purity	82.49	
LAST EXP. JUICE		Sugar %	1.91	
		Brix %	2.56	
		Purity	74.61	
CLARIFIED JUICE		Sugar %	11.27	
		Brix %	13.52	
		Purity	83.36	
Vaccuum filter Juice		Sugar %	10.67	
		Brix %	13.36	
		Purity	79.87	
Defecated Syrup		Sugar %	58.16	
		Brix %	70.11	
		Purity	82.96	
Clarified melt		Sugar %	59.51	
		Brix %	60.28	
		Purity	98.72	

S. NO	PARTICULARS	THIS SEASON	LAST SEASON	
		2020 - 2021	2019 - 2020	
	MASSECUITE			
	MASSECUITE-R1	Brix %	90.12	90.26
		Purity	98.14	98.75
	MASSECUITE-Raw	Brix %	92.29	92.31
		Purity	87.52	88.48
	MASSECUITE-B	Brix %	94.93	95.30
		Purity	74.70	74.91
	MASSECUITE-C	Brix %	98.85	100.05
		Purity	52.33	52.31
	MASSECUITE-C 1	Brix %	94.19	95.31
		Purity	74.34	71.04
	MOLASSES			
	R1-HEAVY	Brix %	76.64	76.57
		Purity	95.97	96.36
	R1-LIGHT	Brix %	74.78	74.60
		Purity	97.94	98.57
	Raw-HEAVY	Brix %	78.97	79.61
		Purity	74.71	75.02
	Raw-LIGHT	Brix %	72.71	72.39
		Purity	84.07	84.61
	B-HEAVY (Upto 16.02.2021)	Brix %	83.97	-
		Purity	51.47	-
	B-HEAVY (17.02.2021 to Season end)	Brix %	86.15	-
		Purity	53.33	-
	B-HEAVY (Season start to Season end)	Brix %	85.17	84.86
		Purity	52.39	52.22
	B-LIGHT	Brix %	71.71	71.56
		Purity	93.28	94.23
	C1-HEAVY	Brix %	83.51	84.85
		Purity	49.43	47.01
	C- LIGHT	Brix %	75.64	75.86
		Purity	72.49	73.52
9.	SUGAR			
	I) WHITE SUGAR BAGGED (d)	Sugar %	99.96	99.96
		Moisture %	0.03	0.02
	FINAL MOLASSES as C-Heavy (Upto 16.02.2021)	Sugar %	27.73	-
		Brix %	86.62	-
		Purity	32.01	-
	FINAL MOLASSES as B-Heavy (17.02.2021 to Season end)	Sugar %	45.94	-
		Brix %	86.15	-
		Purity	53.33	-
	FINAL MOLASSES as B-Heavy & C-Heavy (Complete season)	Sugar %	37.35	27.65
		Brix %	86.70	86.13
		Purity	43.08	32.10
	BAGASSE	Sugar %	1.77	1.87
		Water %	50.15	50.14
		Fibre %	47.48	47.37
	FILTERCAKE	Sugar %	2.26	2.69
10.	MILL EXTRACTION BOILING HOUSE EXT. AND OVERALL EXTRACTION			
	MILL EXTRACTION		96.33	96.09
	REDUCED MILL EXTRACTION		96.61	96.38
	BOILING HOUSE EXTRACTION		86.03	89.55
	RE. BOILING HOUSE EXTRACTION		88.39	91.38
	OVERALL EXTRACTION		82.87	86.05
	REDUCED OVERALL EXTRACTION		85.39	88.07

11. SUGAR BALANCE

S. NO	PARTICULAR	THIS SEASON	LAST SEASON
		2020 - 2021	2019 - 2020
1.	SUGAR IN CANE	13.607	13.538
2.	SUGAR IN MIXED JUICE	13.108	13.010
3.	SUGAR IN BAGASSE	0.500	0.528
4.	SUGAR IN FILTER CAKE	0.104	0.128
5.	SUGAR IN FINAL MOLASSES	1.700	1.180
6.	SUGAR IN SUGAR	11.270	11.660
7.	SUGAR UNDETERMINED	0.027	0.037
8.	TOTAL SUGAR LOSSES (In bagasse ,filter cake molasses undetermined.)	2.331	1.873

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



Rajesh Singh
Asst. GM(QC)



Kuldeep Rathi
GM(Cane)



P.K.Khandelwal
GM(P)



O. P. Mishra
GM(E)



Dr. Ashok Kumar
VP(S)

DATE: 04/06/2021

- Outstation cane is the cane weighed and purchased at a center other than at the factory gate.
- For carbonation factories only.
- In the case of three massecuite system, brix & purities of C-Heavy & D-Light molasses are not be given.
- Sugar means 'Direct pol'
- Bagasse percent cane = $100 + \text{added water percent cane} - \text{mixed juice (gross) percent cane}$.
- Gross season means the total number of days from the date of start to the date of close both days inclusive.
- Duration of season ,this is calculated by dividing the total hours actual crushing by 22.

Triveni Engineering & Industries Ltd.,
Sugar Unit, Khatauli
Additional Information Along With The Final Manufacturing Report

S. No.	PARTICULARS	This Season 2020 - 2021			Last Season 2019 - 2020	
1	Mill Extraction		96.33		96.09	
2	Boiling House Extraction		86.03		89.55	
3	Overall Extraction		82.87		86.05	
4	Reduced Mill Extraction					
	a) Noel deer		96.61		96.38	
	b) Mittal		96.27		96.04	
5	Reduced Boiling House Extraction					
	a) Gundu rao		88.56		91.20	
	b) Noel deer		88.39		91.38	
6	Reduced Overall Extraction					
	a) Gundu rao		85.26		87.60	
	b) Noel deer		85.39		88.07	
7	Undiluted Juice Loss in Bag. % Fibre		25.66		27.49	
8	Added Water Ext. MJ % Added Water		77.42		73.26	
9	Virtual Purity Of Final Molasses		39.68		32.57	
10	Brix Free Cane Water % Cane		1.54		0.35	
11	Added Water % Fibre		354.58		326.85	
12	Rate Of Crushing Per 24 Hours					
	a) Including stoppage Qtls.		115198.00		109828.00	
	b) Excluding stoppage Qtls.		160000.00		160001.00	
13	Down time %		28.00		31.36	
14	E.R.Q.V.					
	a) M.J./P.J.		97.05		97.25	
	b) L.M.J./P.J.		82.87		84.35	
15	MASSECUITE % CANE					
		With C-heavy	With B- heavy	Total		
	a) R1 - Masseccuite% cane	23.89	21.98	23.04	24.46	
	b) Raw Masseccuite % cane	21.78	22.24	21.98	22.39	
	c) B - Masseccuite % cane	13.23	8.43	11.11	11.25	
	d) C - Masseccuite % cane	6.93	0.00	3.86	5.93	
	e) C1- Masseccuite % cane	0.98	0.00	0.55	2.43	
	TOTAL	66.81	52.65	60.54	66.46	
16	Steam % Cane		48.90		50.29	
17	Power Consumption(Kwh/Ton cane)		25.44		27.20	
18	Bagasse Sent to co-generation plant		21.73		21.50	
19	Jawa Ratio		83.07		84.41	
20	Clarification Efficiency		6.70		13.68	
21	Dry Milling Factor		70.89		70.93	
22	Grade Wise Sugar Production (QTLs)	Bags	%age	Bags	%age	
	L-31	600488.00	22.34	591903.00	20.51	
	M-31	2081901.00	77.45	2277890.00	78.94	
	S-31	3289.00	0.12	11153.00	0.39	
	L-30	-	-	-	-	
	M-30	-	-	-	-	
	S-30	-	-	-	-	
	BISS (Brown, White & Powder)	2472.00	0.09	4560.00	0.16	
	TOTAL	2688150.00	100.00	2885506.00	100.00	


Rajesh Singh
Asst. GM(QC)


Kuldeep Rathi
GM(Cane)


P.K.Khandelwal
GM(P)


O. P. Mishra
GM(E)


Dr. Ashok Kumar
VP(S)