



क्षेत्रीय कार्यालय
उ०प्र० प्रदूषण नियंत्रण बोर्ड
1-ए/आई.एन.एस.-1, आवास विकास कालोनी, बौद्ध विहार,
दिल्ली रोड, मुरादाबाद

पत्र संख्या 711/टी-22/मुरादाबाद

दिनांक 16.06.2022

Through E-Filing (E-mail: judicial-ngt@gov.in)

To,

The Registrar General,
Principal Bench,
Hon'ble National Green Tribunal,
Copernicus Marg, New Delhi

Sub: Regarding Joint Inspection Report in Compliance of order dated 18-02-2022 in O.A. No. 279/2021 Nagendra Singh Vs State of U.P.

Sir,

In compliance of the direction passed by Hon'ble National Green Tribunal dated 18-02-2022 on matter mentioned above, the Joint Inspection report is hereby attached with a request to put up before Hon'ble National Green Tribunal for kind perusal.


Your Sincerely

Enclosure: As Above.


(Vikas Mishra)
Regional Officer

Copy To:

1. District Magistrate, Moradabad.
2. Shri Pradeep Mishra, Advocate for U.P. Pollution Control Board
3. CEO-7, U.P. Pollution Control Board, Lucknow
4. Chief Law Officer, U.P. Pollution Control Board, Lucknow


Regional Officer

Joint Inspection Report

(07.04.2022)

of

**M/s Triveni Engineering & Industries Ltd., Village-Raninangal,
Tehsil Thakurdwara, District-Moradabad,
Uttar Pradesh**

In the Matter Of

Nagendra Singh Vs State of Uttar Pradesh

In O.A. No. 279/2021

-Prepared by-

The Joint Committee of CPCB & UPPCB

Constituted by

Hon'ble National Green Tribunal

(Order dated 18th February, 2022)

TABLE OF CONTENTS

S. No.	Title	Page No.
1.0	JOINT INSPECTION of M/s TRIVENI ENGINEERING & INDUSTRIES LTD., VILLAGE-RANINANGAL, TEHSIL THAKURDWARA, DISTRICT-MORADABAD, UTTAR PRADESH ON 07.04.2022 IN COMPLIANCE TO DIRECTION ISSUED BY HON'BLE NATIONAL GREEN TRIBUNAL IN O.A. NO. 279/2021, IN THE MATTER OF NAGENDRA SINGH VS STATE OF UTTAR PRADESH 1.1 BACKGROUND	04 04
2.0	2.0 GENERAL INFORMATION	05
3.0	3.0 OPERATIONAL STATUS	06-11
4.0	4.0 OBSERVATION	11 - 21
5.0	5.0 CONCLUSION	21 - 23
6.0	6.0 RECOMMENDATIONS	23
7.0	7.0 PHOTOGRAPHS	24 - 29
8.0	8.0 INSPECTION TEAM	29



LIST OF TABLES

Table No.	Title	Page No.
Table-01.	Details of low pressure boilers	12
Table- 02.	Analysis result of stack monitoring for Particulate Matter (PM)	12 - 13
Table-03.	Analysis result of ambient air monitoring.	13
Table-04.	Ash data summary for the period from 09.11.2021 to 31.03.2022	13 - 14
Table-05.	Details of the hazardous waste generation (used oil) by the unit (Avg. quantity from December 2021 to March 2022).	14
Table-06.	Analysis results of samples collected from mill house, ETP inlet & outlet and various subunits of ETP and treated effluent storage lagoon.	15 – 16
Table-07.	Details of bore-wells installed at M/s Triveni Engineering & Industries Ltd., Village-Raninangal, Tehsil Thakurdwara, District-Moradabad, U.P.	17
Table-08.	Month wise details of fresh water abstraction (KLD) (As per logbook data from 1st Nov-21 to 6th Apr-22)	18
Table-09.	Piezometers locations	18
Table-10.	Groundwater Analysis Report- Quality of Groundwater is compared with Bureau of Indian Standard (BIS) DRINKING WATER — SPECIFICATION (Second Revision) IS 10500: 2012.	19
Table-11.	Analysis samples collected from Sulphate Removal System (SRS) inlet and outlet locations.	20



JOINT INSPECTION REPORT OF M/S TRIVENI ENGINEERING & INDUSTRIES LTD., VILLAGE-RANINANGAL, TEHSIL THAKURDWARA, DISTRICT-MORADABAD, UTTAR PRADESH ON 07.04.2022 IN COMPLIANCE TO DIRECTION ISSUED BY HON'BLE NATIONAL GREEN TRIBUNAL IN O.A. NO. 279/2021, IN THE MATTER OF NAGENDRA SINGH VS STATE OF UTTAR PRADESH - REG.

1.1 Background

Hon'ble NGT vide order dated 18.02.2022 in the matter of Nagendra Singh Vs State of Uttar Pradesh in O.A. No. 279/2021 had directed following:

- "1. Grievance in this application is against failure to take action to remedy the air pollution caused by fly ash and bagasse generated in the course of operation of Triveni Raninangal Sugar Mill in District Moradabad, Uttar Pradesh. The air pollution is adversely affecting the public health and the environment.*
- 2. The matter was considered on 08.11.2021 and UP State PCB and District Magistrate, Moradabad were directed to look into the matter and furnish a factual and action taken report.*
- 3. In view of above, report has been filed by the State PCB dated 09.02.2022, after inspection of the site on 28.12.2021.*
- 4. We have heard learned Counsel for the State PCB. The report doesn't show the extent of ash generated from the boiler which is reportedly being sent to the filling yard within the unit premises. Thus, the report is incomplete.*
- 5. Let a joint Committee of CPCB and Regional Office of the State PCB furnish a fresh report in the matter within one month by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR support PDF and not in the form of Image PDF."*

In compliance to the aforesaid direction, a joint team of officials from Central Pollution Control Board, Delhi and Regional Office, Moradabad, Uttar Pradesh Pollution Control Board (UPPCB) visited the M/s Triveni Engineering & Industries Ltd., Village-Raninangal, Tehsil Thakurdwara, District-Moradabad, Uttar Pradesh ("hereafter referred as the Unit") 07th April, 2022 to verify the compliance of the unit w.r.t. environmental norms.



2.0. GENERAL INFORMATION

1.	Name of the unit with complete postal address	M/s Triveni Engineering & Industries Ltd., Village-Raninangal, Tehsil Thakurdwara, District-Moradabad, Uttar Pradesh	
2.	Name of Contact person	Designation	Contact No & E- mail
3.	Sh. Manish Srivastava	G.M. (Production)	Contact No- 9690020220 Email- manishshrivastava@rng.trivenigroup.com
4.	Sh. Sanjay Tiwari	AGM- Production	Contact No- 9690001166 Email-process@rng.trivenigroup.com
5.	Spatial Co-ordinates Latitude and Longitude (in Decimal format only)	Latitude - 29.132333 Longitude - 78.763394	
4.	Type of sugar industry	Standalone (White plantation sugar by double Sulphitation process)	
6.	Year of commissioning	2006	
7.	License capacity of sugar Mill (TCD)	5000 TCD	
8.	Average actual crush rate (TCD)	4647.47 TCD (Avg. value as per Form RT7(C) for the month of Nov-21, Dec-21, Jan-22, Feb-22, Mar-22 and Daily Manufacturing Report (DMR) for the month of Apr-22)	
9.	Attached Distillery capacity, KLPD	No distillery attached	
10.	Consent status& its Validity with date a. Air Consent b. Water consent c. Hazardous Waste Authorization	Air Consent valid up to 31.12.2023 (Annexure-I) Water consent valid up to 31.12.2023 (Annexure-II) Hazardous Waste Authorization valid up to 18.09.2025 (Annexure-III)	
11.	NOC from CGWA & its Validity with date	NOCs obtained from Ground Water Department (Ministry of Jal Shakti, Govt. of Uttar Pradesh) for abstraction of ground water (495 KL per day) from 02 nos. of bore-well: NOC-I valid up to 28.02.2026 (Annexure-IV-a) NOC-II valid up to 22.02.2026 (Annexure-IV-b)	

[Signature]

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3.0 OPERATIONAL STATUS

S N.	Particulars	
1.	Start period of crushing season 2020-21	08.11.2021
2.	No. of operational days at the time of inspection	150 days
3.	Operational status during visit	Operational
4.	Sources of fresh water	
	Bore well/Tube well/ Any other & its No's	02 nos. bore-well
	a. Bore well nos.	Bore well- 02 nos. (Bore-well-I and Bore well-II)
	b. Flow meter Installation at bore wells	Yes, installed
	c. Reading of Flow Meter during visit	Yes, 1. Bore well-I= Flow=118.78 m ³ /hr Totalizer=2330.17 m ³ 2. Bore well-II= Flow=0.0 m ³ /hr Totalizer =1494553.6 m ³
	d. Any Logbook maintained	Yes
	e. Quantity of water withdrawal(KLD)	As per log book from 8 th Nov-2021 to 6 th Apr-2022) average quantity of water withdrawal (KLD) is 207.91 KLD
5.	Fresh water consumption (KLD)	
	a. Sugar plant:	
	i. Cleaning washing and machinery cooling make-up	Accumulator: 17.17 KLD
	ii. Spray pond/PCT make-up	
	iii. Any other, such as Cleaning and human requirements including lab requirements	
	b. Co-generation/ Boiler section:	
	i. WTP -boiler make-up, regeneration, backwash, reject etc.	DM plant: 83.45 KLD
	ii. Cooling tower make-up	
	iii. Wet Scrubber make-up	
	iii. Any other, such as ash quenching	
	Total co-generation unit	
	Total Industrial	100.62 KLD
	c. Residential etc.	105.81 KLD
	d. Total fresh water Consumption (KLD)	206.43 KLD (Average quantity of water consumption (KLD) as per log book from 8 th Nov-2021 to 6 th Apr-2022)
	e. Log book maintained (Yes/ No)	Yes

6.	Specific water consumption, L/t of cane	22.94 L/t of cane crushed	
7.	Details of Hot & Cold water recycling system (Yes/No.)	Number	Capacity
	a. Details of Hot water UGR.	01	735 m ³
	b. Cold water UGR and cooling towers	01	1170 m ³
	c. Hot water- Location of flow meter & its Installation (Yes/No)	Flow meter (Yes/No)	Flow meter reading
	1. Imbibition water at mills	Yes	Flow=103.3 m ³ /hr Σ=10.1 T/Hr.
	2. Filter cake wash water at rotary vacuum filter	Yes	Flow=7.94 m ³ /hr Σ=139857.63 m ³
	3. Sugar melting, pan boiling, molasses conditioning	Yes	A PAN (A-pan, seed megma, rori melter, dust collector): Flow=15.80 m ³ /hr Σ=84503.88 m ³ B & C PAN (B & C pan, B&C melter & molasses conditioning): Flow=13.86 m ³ /hr Σ=238139.72 m ³
	4. Wash water at Centrifugal	Yes	Flow=5.11 m ³ /hr Σ=36946.55 m ³
	5. Wet Scrubber make-up	Yes	Flow=6.16 m ³ /hr Σ=114169.31 m ³
	d. Cold water -Location of flow meter & its Installation.	Flow meter (Yes/No)	Flow meter reading
	1. Power turbine cooling	Yes	Flow=102.14 m ³ /hr Σ=943663.88m ³
	2. Mills, fibrizer bearing, pumps cooling	Yes	Flow=95.5 m ³ /hr Σ=774692.31m ³
	3. Cooling tower of co-generation	Yes	Σ=27930.0 m ³
	4. B and C massecuite cooling	Yes	Flow=0.09m ³ /hr Σ=8107.74 m ³
	5. Final molasses cooling	Yes	Flow=Not displayed Σ=60 m ³
8.	Waste water (effluent generation (KLD): Average effluent generation as per log book from 8 th Nov-2021 to 6 th Apr-2022)		
	a. Process cooling tower/ spray pond over flow (for double Sulphitation) (SRS outlet)	Process cooling tower over flow: 257.98 KLD	
	b. Mills, boiling house, D.M./ R.O. Plant boilers	457.59 KLD	

	etc.	Reject water quantity while regeneration of DM plant @12% of input to DM plant: 10.21 KLD
	c. Soda/ Acid boiling water (Hazardous)	
	d. Co-generation	
	h. Common / total effluent generation	726.15 KLD
9.	Quantity of treated effluent	715 KLD
10.	Specific effluent discharge, L/T of cane	153.83 Liter/ton of cane crush
11.	Treated effluent transferred to cold UGR for use in process	196.32 KLD
12.	Treated effluent used from lagoon for irrigation, KLD	421.76 KLD (Total ETP treated effluent sent to lagoon= 518.60 KLD)
13.	Provision of separate spray pond/ cooling tower overflow treatment	Yes, Annexure-V
14.	a. Brief description of spray pond/cooling tower over flow treatment process (mention technology as per charter)	<p>Separate effluent treatment plant for cooling tower overflow with treatment capacity of 600 KL, based on Activated Sludge Process.</p> <p>Flow Chart:</p> <p>Bar screen chamber → Equalization tank → Coagulation tank → Flocculation tank → Primary clarifier → Buffer tank → Aeration tank → Secondary clarifier → Collection tank → → Multigrade filter → Activated Carbon Filter.</p>
15.	Details of tube cleaning method adopted (chemical/ hydrojet/ any other appropriate method if any)	Both Hydro-jet & mechanical tube cleaning
16.	Availability of Hazardous tank to collect wash water generated during chemical/Mechanical cleaning of evaporator tubes.	Yes, 02 nos. hazardous (Caustic Soda) tanks installed Holding capacity- 62 m ³ -
17.	Condensate polishing system adopted by the factory (for boilers >45 kg/cm ² steam pressure)	Not required (Low capacity boiler: 45 kg/cm ² steam pressure)
18.	Construction of small pits with smooth inner surface with ceramic tiles near to boiler feed pumps, condensate pumps, Injection pumps and RVF vacuum to collect gland cooling water	Yes
19.	Mixing arrangement in equalization tank	Yes
20.	Type of aeration in aeration tank Diffused/ surface/ any other	Diffused aeration
21.	Tertiary treatment, give details	Yes, Activated Carbon Filter (ACF) Multigrade Filter (MGF)
22.	Flow diagram of ETP	Oil skimmer → Bar screen chamber → Equalizations tank → pH correction

		tank → Primary Clarifier → Pre-aeration tank→ Aeration Tank-I → Secondary Clarifier-I → Aeration Tank-II → Secondary Clarifier-II → Chlorine contact tank→ Multigrade filter (MGF) → Activated Carbon Filter (ACF) → Lagoon Annexure-VI	
23.	Treatment capacity of ETP	840 KLD	
24.	Retention time (Min/hr)	Retention Time/Contact Time (Mentioned in CPCB charter)	As per Industry
	1. Bar screen Chamber, 3x2.5x3m= 22.5 m ³	30 minutes	45 minutes
	2. Oil & grease tank	45 minutes	-
	3. Equalization tank with aeration, 9.2x9.2x3m = 293.92 m ³	6 hrs	13.07 hrs
	4. SRS- 6.7x6x2.5= 100.50 m ³		
	5. Primary Clarifier, 6m dia. x3.4 m ht= 101.74 m ³ SRS-PC, 6m dia.x 3m ht= 84.7 m ³	5-6 hrs	6.18 hrs
	6. Aeration tank- (i) 8x16x4.5m = 576 m ³ (ii)8x13.6x4.5m = 490 m ³ SRS- 18x8x4.5= 648 m ³	24-28 hrs	56.81 hrs
	7. Secondary Clarifier, 1. 9.2m dia. x3.6 m ht= 239 m ³ , 2. 9.2m dia. x3.6 m ht = 239 m ³ , SRS- 6m dia.x 3m ht= 84.7 m ³	7-8 hrs	18.62 hrs
	8. Sand/multi grade filter, 2m dia. x 2.3 m HOS=7.22 2m dia. x 2.3 m HOS=7.22	20-25 minutes	28.88 minutes
	9. Activated carbon filter, 2m dia. x 2.3 m HOS=7.22 2m dia. x 2.3 m HOS=7.22	20-25 minutes	28.88 minutes
	10. Sludge drying bed	Not <0.03 m ³ per ton of cane	-
	11. Centrifuge	-	
25.	Any further treatment after ETP	No	
26.	Brief processing details (flow chart)	Yes, attached as Annexure-VII	
27.	Number of Piezometric wells available in the unit premises: Yes 01 nos. (latitude - 29.132337, Longitude - 78.761124		
28.	Storage of treated Effluent		
	a. No. & size of lagoons	No. of lagoon= 01, Size= 10000 m ³	

	b. Retention time	14 days
	c. Lagoon type- permeable/impermeable	Impermeable
29.	Sludge Handling Process: Yes	
	a. Sludge Digestion Method	No
	b. Whether mechanical sludge handling system installed/Sludge Drying Process	Yes, Decanter
	c. Final Disposal of Sludge	Sludge after drying distributed to local farmers
30.	Any Hazardous Substances, give details. (Quantity & way of Disposal)	Yes, Way of Disposal- sent to Bharat Oil Waste Management Ltd. (BOWML) Annexure-VIII Quantity- 8.13 kg/day (Avg. quantity from December 2021 to March 2022)
31.	Manpower employed for ETP operation & maintenance.	Environmental Officer-01, Lab Chemist-01 Operator-03 Helper-06 Fitter-01
32.	Details of irrigation system & treated effluent used quantity	The unit facilitated flexible pipeline up to the boundary wall of the unit for the distribution of treated effluent to agricultural fields of local farmers for irrigation.
	1. Own land area for irrigation	Yes, 15.19 hectare (factory farm-3.77 hectare+green belt of factory campus-11.42 hectare)
	2. Farmer land area and their agreement.	Yes, 35 Farmer's agreement provided for 324.5 Bigha i.e. 81.27 hectare
	3. Whether flow meter installed to measure amount of water used for irrigation.	Yes, installed (As per log book from 8 th Nov-2021 to 6 th Apr-2022 average 421.76 KLD treated effluent provided to local farmers from lagoon)
	4. Distance of land Area from the Unit (Km)	Adjacent to boundary wall of the unit (0.200 Km)
	5. Total Available Area (Hectare)	Command Area- 160.71 hectare (factory farm-3.77 hectare+green belt of factory campus-11.42 hectare+farmers land-144.981 hectare)

	6. Soil Texture of land	Sandy loam (effluent loading rate average of (170-225 m ³ /hectare/day) as per MoEFF&CC notification dated 14.01.2016.
	7. Crop area under effluent application	148.751 hectare (144 hectare- Sugarcane crop and 3.77 hectare- pulses & mustard)
33.	Cleaning mechanism at Mills and factory floor	Dry cleaning with bagasse
34.	Color coding of pipelines for water distribution network	Yes
35.	Mode of disposal treated effluent	The treated effluent is recycled in both process and used for irrigation to nearby agricultural fields through flexible pipeline as per the farmers requirement
36.	Details of Air Pollution Control System	
	Emission control system or Air Pollution Control Device (APCD) installed	Yes
	Name of installed Emission control system/APCD	Electrostatic Precipitator (ESP) and Wet Scrubber
	Stack height	60 meter
	Stack monitored	Yes, (stack monitored by Regional Office, Moradabad, UPPCB)
	PM level	93.58 mg/Nm ³
	On-line emission (stack) monitoring system installed	Yes
37.	Details of Ash generation and disposal:	
	Quantity of ash generated	13.92 MT/day (139.2 Qtl/day) (Average generation from 09.11.2021 to 31.03.2022)
	Method of disposal of Ash	Filling low land area within unit premise and provided to local farmers. (Annexure- XI)

4.0 OBSERVATIONS

1. The unit M/s Triveni Engineering & Industries Ltd., situated in Village-Raninangal, Tehsil Thakurdwara, District-Moradabad, Uttar Pradesh, which was engaged in producing white sugar by Double Sulphitation process with consented capacity of 5000 TCD using sugarcane.
2. Unit is having valid Consent to Operate under section 21/22 of the Air (Prevention & Control of Pollution) Act, 1981 (as amended) and Consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (as amended) for discharge, both valid up to 31.12.2023 (Annexure-I & II).

3. The unit is also having valid Authorization issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for storage and disposal of hazardous wastes which is valid up to 18.09.2025 (Annexure-III).
4. At the time of joint inspection, the unit was found operational.
5. The unit has started its crushing season 2021-22 on 8th November, 2021 and as per Daily Manufacturing Reports (DMRs) provided by the unit, the average cane crushing from 01.11.2021 up to 31.03.2022 was found to be 4647.47 TCD, (Avg. value as per Form RI7(C) for the month of Nov-21, Dec-21, Jan-22, Feb-22, Mar-22 and Daily Manufacturing Report (DMR) for the month of Apr-22) which was under the consented capacity.
6. The unit has two boilers of 80 TPH and 12 TPH capacity followed by common Electro Static Precipitator (ESP) with common 60-meter stack as Air Pollution Control System (APCS). A wet Scrubber was separately installed at 12 TPH boiler in addition to common ESP. APCS were found operational. Online Emission Monitoring System was found installed in stack and connected to CPCB/SPCB server.
7. Bagasse was used as fuel for the boilers. Ash from boiler and ESP was collected and sent to fill low lying area within the unit's premises as well as provided to local farmers.

Table-01. Details of low pressure boilers.

S. No.	Air Pollution Source	Capacity of Boiler	Type of Fuel	Stack No.	Air Pollution Control System (APCS)	Stack Height
1.	Boiler-I	80 TPH	Bagasse	Common Stack	Electro Static Precipitator (ESP)	60 meter from ground level
2.	Boiler-II	12 TPH	Bagasse		Wet scrubber followed by common ESP on common stack connected with 80 TPH	

8. Regional Office of Uttar Pradesh Pollution Control Board, Moradabad has carried out stack (height- 60 meter) monitoring for Particulate Matter (PM).
9. Monitoring results of stack for Particulate Matter is given as below:

Table- 02. Analysis result of stack monitoring for Particulate Matter (PM).

S. No.	Attached Boiler with Capacity	Stack No.	Stack Height	Parameter (mg/Nm ³)	Result	MOEF&CC Notification G.S.R. (E) dated 14th January, 2016
1.	80 TPH X 01 nos.	Common Stack	60 meter	Particulate Matter (SPM)	93.58 mg/Nm ³	150.0 mg/Nm ³
2.	12 TPH X 01 nos.					

10. Monitoring result of common stack for Particulate Matter (PM) shows value 93.58 mg/Nm³ against 150.0 mg/Nm³ which are complying as per the notified standard mentioned in MoEF&CC Notification G.S.R. (E) dated 14th January, 2016.
11. Ambient air quality monitoring was also carried out within the premises and outside the premises.

Table- 03. Analysis result of Ambient air quality monitoring.

S.No.	Monitoring Location	Area Category	Sulphar Dioxide (SO _x) (µg/m ³)	Nitrogen Dioxide (NO _x) (µg/m ³)	Suspended Particulate Matter (less than 10 micron (µg/m ³))
1	Baba Vishwanath Temple	Industrial/ Residential/ Rural/Other Area	20.00	27.00	105.18
2	ETP Plant	Industrial/ Residential/ Rural/Other Area	19.00	26.00	108.15
<i>Gazette Notification for National Ambient Air Quality Standards vide dated 18th November, 2009</i>			80.0	80.0	100

12. Monitoring result conducted at Baba Vishwanath Temple for SO_x and NO_x shows 20.00 µg/m³ and 27.00 µg/m³ and ETP Plant shows 19.00 µg/m³ and 26.00 µg/m³, which are complying as per Gazette Notification for National Ambient Air Quality Standards vide dated 18th November, 2009. However, monitoring results for SPM-10 conducted at Baba Vishwanath Temple and ETP Plant shows 105.18 µg/m³ and 108.15 µg/m³ respectively, which is more than the prescribed standard i.e. 100 µg/m³.

13. The unit has provided ash generation record from 09.11.2021 to 31.03.2022 which is 19907.1 Quintals i.e. average 13.92 MT/day (139.2 Qtl/day).

Table- 04. Ash data summary for the period from 09.11.2021 to 31.03.2022.

Cane Crushed (Qtls)	Bagasse Generation (Qtls)	Bagasse Consumption (Qtls)	Ash Generation (Theoretical) @1.5% ON BAGASSE CONSUMED	Actual Ash Generated (Qtls)	Moist% due to Wet Ash
6778400	1796511.7	1126760.7	16901	19907.1	15

[Handwritten signatures]

14. Boiler ash was observed to be collected separately in trucks with all the precaution to stop spreading of fly ash in ambient atmosphere. The unit has maintained proper record of boiler ash generation and its disposal.
15. During joint inspection no fugitive emission was observed in unit premises.
16. The unit has 03 nos. of DG set having capacity of 500 KVAx02nos. and 180 KVAx01 nos. with acoustic enclosure and adequate stack height.
17. The unit has provided agreement dated 01.02.2019 with Bharat Oil & Waste Management Ltd, which is valid for five years (from 2019 to 2023) (Annexure-VIII).
18. Used oil and oily sludge (Hazardous Wastes) is provided to third party (Bharat Oil & Waste Management Ltd.) for its disposal periodically.
19. The unit has provided copy of Form-10 regarding Manifest for Hazardous and other wastes dated 07.12.2021, 05.01.2022 and 26.03.2022 (Annexure-IX) for the generation of used oil, which is being disposed through third party (Bharat Oil & Waste Management Ltd.). The average generated quantity of used oil was 8.13 kg/day, which comply the authorized quantity i.e. 1.3 Ton per annum. Following is the details of the hazardous waste generation by the unit:

Table- 05. Details of the hazardous waste generation (used oil) by the unit (Avg. quantity from December 2021 to March 2022).

S.No.	Category of Hazardous Waste as per the Schedules I, II & III of these rules	Authorized mode of disposal or recycling or utilization or co-processing etc.	Quantity as per Authorization	Quantity generated
1	Schedule I (Category 5.1) used or spent oil	TSDF/ Authorized Recyclers	1.3 Ton per annum	8.13 kg/day

20. The unit has submitted Form-4 i.e. Annual Returns form to State Board in compliance to the provisions of Rule 20 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rule, 2016. As per Form-4, 320 kg, 458 kg, 150 kg, 222 kg of Oil & Grease were transported to BOWML vide dated 15.12.202, 29.01.2021, 17.03.2021 and 13.05.2021 respectively (Annexure-X).
21. The unit is having ETP with treatment capacity of 840 KL for treatment of effluent generated from various sections of sugar mill.
22. The ETP comprises of Oil skimmer & Bar screen chamber → Equalization tank → pH correction tank → Primary Clarifier → Pre-aeration tank → Aeration tank-I → Secondary Clarifier-I → Aeration tank-II → Secondary Clarifier-II → Chlorine contact tank → Multigrade filter (MGF) → Activated Carbon Filter → Lagoon (Annexure-VI).

23. The unit has installed flow-meter at main inlet channel (Flow- 27.4 m³/hr, Totalizer 59923.8 m³) and outlet of ETP (Flow- 32.73 m³/hr, Totalizer 108352.55 m³).
24. The unit has installed Online Continuous Effluent Monitoring System (OCEMS). OCEMS reading w.r.t. flow- 33.12 m³/hr, pH- 7.64, COD- 29.4 mg/l, BOD- 3.2 mg/l and TSS- 0.9 mg/l (Pic-22.) were recorded during joint inspection. OCEMS is connected with CPCB and SPCB server.
25. The unit is complying w.r.t. final treated effluent discharge volume norms as the effluent discharge i.e. **153.83 Liter/Ton** of cane crush against norms of 200 Liter/ton of cane crush.
26. The team has collected effluent samples from mill house, ETP inlet & outlet and various subunits of ETP and treated effluent storage lagoon. The analysis result is placed in Table 6 below.

Table- 06. Analysis results of samples were collected from mill house, ETP inlet & outlet and various subunits of ETP and treated effluent storage lagoon.

Sample Analysis	Effluent flow rate (m ³ /hr)	Sulphate	Color	pH	COD	BOD	TSS	TDS	Oil & Grease	MLSS/MLVSS
Mill House	-	22	29	4.3	3274	2196	254	368	-	-
ETP Inlet	27.4	120	45	4.8	3160	2140	276	1132	-	-
Primary clarifier outlet	-	147	99	5.8	1756	917	165	1356	-	-
Aeration tank-I	-	-	-	-	-	-	-	-	-	MLSS= 3941 MLVSS =2095
Aeration tank-II	-	-	-	-	-	-	-	-	-	MLSS= 5614 MLVSS =2451
Secondary clarifier-2 outlet	-	287	17	6.9	31	05	13	792	-	-
ETP Outlet (After tertiary treatment)	32.73	267	08	6.9	30	05	19	572	BDL	-
Treated effluent storage lagoon	-	304	10	6.9	46	09	18	940	-	-

Notified standards for land disposal	-	-	-	5.5 to 8.5	250	100	100	2100	10	-
NOTE: Parameters, mg/l except pH, Color in Hazen										

27. Joint team has observed that the unit has made provision to add stream of ETP (600 KL) for cooling tower overflow (Sulphate Removal System) either into the Aeration Tank-I or Aeration Tank-II of 840 KL capacity Effluent Treatment Plant (ETP).
28. As informed by the unit representative that whenever BOD and COD of the spray pond overflow effluent rises, the SRS treated effluent stream is immediately added to the Aeration Tank-I or Aeration Tank-II to avoid the discharge of increased BOD and COD.
29. Analysis results of Secondary Clarifier-II showing reduction of ~99% in BOD, ~98% in COD and ~41% in TDS from Primary Clarifier just after the treatment through Aeration Tank-I, Secondary Clarifier-I & Aeration Tank-II. MLSS of Aeration Tank-I & Aeration Tank-II was found to be 3941 mg/l and 5614 mg/l respectively against the desired value of 2500 mg/l to 3000 mg/l.
30. The analysis of sample collected from aeration tank for MLVSS/MLSS were measured 0.53 and 0.43 for Aeration Tank-I & Aeration Tank-II respectively, which is below the desired ratio of 0.70 to 0.80.
31. The analysis results of sample collected from the ETP outlet (pH- 6.9, COD- 30 mg/l, BOD- 05 mg/l, TSS- 19 mg/l, TDS- 572 mg/l, Oil & Grease- BDL) indicates that the treated effluent from the ETP is complying w.r.t. the notified standards for irrigation purpose i.e. pH- 5.5-8.5, COD- 250 mg/l, BOD- 100 mg/l, TSS- 100 mg/l, TDS- 2100 mg/l).
32. The unit has impervious lagoon (Pic-20.) having capacity of 10,000 m³ to store treated effluent. The treated water is pumped to cold water UGR as per requirement and rest of the quantity to treated effluent storage lagoon which is further distributed to nearby farmer's field for irrigation as per the demand through flexible pipeline. It was observed that the unit has installed flow meter at the outlet of lagoon to measure the quantity of treated effluent supplied for irrigation (flow- 65.5 m³/hr, Gross-63504 m³). The unit has provided data of treated effluent used in irrigation from 08.11.2021 to 06.04.2022.
33. The joint team has observed flexible irrigation pipeline laid up to boundary wall of unit from outlet of lagoon. Analysis results of sample collected from

Lagoon (pH- 6.9, COD- 46 mg/l, BOD-09 mg/l, TSS- 18 mg/l, TDS- 940 mg/l, Sulphate- 304 mg/l and Color- 10 Hazen) indicates that the treated effluent from Lagoon is complying w.r.t. the notified standards for irrigation purpose i.e. pH- 5.5-8.5, COD- 250 mg/l, BOD- 100 mg/l, TSS- 100 mg/l, TDS- 2100 mg/l).

34. As per the Irrigation Management Plan prepared by National Sugar Institute (NSI), Kanpur, in the year 2017, the unit is having 160.71 hectare of command area for irrigation within the distance from 1 to 2 km from the unit. The unit has provided documents regarding request and demand of ETP treated effluent by the farmers from nearby villages for irrigation of their agricultural fields.
35. The unit has setup environmental laboratory for analysis of daily parameters (pH, BOD, COD, TSS etc.). The unit has maintained the ETP log book for daily analysis of ETP effluent parameter.
36. The unit has generated 11020 quintals (average 73.47 quintals per day) of ETP sludge as per record provided from 13.11.2021 to 06.04.2022. The unit has installed mechanical sludge handling system i.e. decanter. As informed by the unit representative, ETP sludge is distributed to local farmers without charging any cost as organic manure after drying.
37. Press mud is being collected separately and provided to local farmers as bio-manure without charging any cost. The unit has maintained concerned record of press mud generation. Total 90973 quintals (2458 quintal per day) of press mud is generated from 01.03.2022 to 06.04.2022.
38. The unit has two underground reservoirs (UGR) for hot water and cold water recirculation having capacities 735 m³ and 1170 m³.
39. The unit has 02 bore-wells to meet the requirement of its fresh water consumption, which was located at different places within the premises for sugar unit as below:

Table- 07: Details of bore-wells installed at M/s Triveni Engineering & Industries Ltd., Village-Raninangal, Tehsil Thakurdwara, District-Moradabad, U.P.

Details of Bore-well				
S. No.	Bore-well No.	Coordinates		Flow meter Reading
		Latitude	Latitude	
1	Bore-well No. 1	29.132845	78.761522	Flow=118.78 m ³ /hr Totalizer=2330.17 m ³
2	Bore-well No. 2	29.134568	78.762765	Flow=0.0 m ³ /hr Totalizer =1494553.6 m ³

40. The unit is having permission to abstract 495 KLD of groundwater from two existing bore-wells as per No Objection Certificate (NOC) granted from Uttar Pradesh Ground Water Department (UPGWD), which is valid up to 28.02.2026

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for bore-well-I (Registration No.-202101000453 & date of application submission- 24.01.2021) and 22.02.2026 for bore-well-II (Registration No.-202101000461 & date of application submission- 25.01.2021). It is observed that the unit has abstracted average 207.91 KLD fresh water from existing bore-well, which is under permitted value as per UPGWD NOC. The month wise details of fresh water abstraction from 1st Nov-2021 to 6th Apr-2022 is given in Table- 8.

Table- 08. Month wise details of fresh water abstraction (KLD) (As per logbook data from 1st Nov-21 to 6th Apr-22)

Month wise details of fresh water abstraction (KLD)			
(As per logbook data from 1 st Nov-2021 to 6 th Apr-2022)			
S.N.	Months	Bore-well No. I (KL)	Bore-well No. II (KL)
1	Nov-21	757	4617
2	Dec-21	380	5827
3	Jan-22	1812	4498
4	Feb-22	366	5330
5	Mar-22	1223	5050
6	Apr-22	59	1268
	Total withdrawal=	4597	26590
	Total withdrawal from Bore-well-I & II=	31187.00 KL	
	Avg. withdrawal=	207.91 KLD	

41. The unit has one piezometer well in the unit premises (Pic no – 27).

Table- 09. Piezometers locations

S. No.	Piezometer	Location	Water Level (meter)	Latitude	Longitude
1	Piezometer No. 1	Inside the unit premises near molasses tank	13.5	29.132337	78.761124

42. Ground water samples were collected from bore-well-I installed in the unit premises and Hand-pump located inside the unit. The housekeeping near bore-well-I and its surrounding was not up to mark.

43. The analysis results of the sample collected from bore-well-I and hand-pump are placed in Table-10 below:

Table-10. Groundwater Analysis Report- Quality of Groundwater is compared with Bureau of Indian Standard (BIS) DRINKING WATER – SPECIFICATION (Second Revision) IS 10500: 2012.

Parameters, mg/l except pH, Color in Hazen				
Sampling Point	Bore-well-I in unit premises	Ground Water Sample from Hand-pump	Drinking water standards (BIS) (Second Revision) IS 10500: 2012 (Acceptable limit)	Drinking water standards (BIS) (Second Revision) IS 10500: 2012 (Permissible limit in the absence of alternate source)
Depth	105 ft	60-80 ft	---	---
Color	BDL	BDL	05	15
pH	7.4	5.7	6.5-8.5	6.5-8.5
Conductivity	490	473	---	---
COD	BDL	BDL	---	---
TDS	314	270		
Total Hardness as CaCO ₃	172	170	200	600
Total Alkalinity as CaCO ₃	269	220	200	400
Chloride	07	12	250	1000
Sulfate (SO ₄ ⁻)	06	05	200	400
Nitrate	0.6	BDL	---	---
As	BDL	BDL	0.01	0.05
Cd	BDL	BDL	0.003	---
Co	BDL	BDL	---	---
Cr	BDL	BDL	0.05	NR*
Cu	BDL	BDL	0.05	1.5
Fe	0.90	0.11	0.3	NR*
Mn	0.21	0.11	0.1	0.3
Ni	BDL	BDL	0.02	NR*
Pb	BDL	BDL	0.01	NR*
Sb	BDL	BDL	---	---
Se	BDL	BDL	0.01	NR*
V	BDL	BDL	---	---
Zn	0.12	BDL	5	15
NR*=No Relaxation				

44. The analysis results of Groundwater samples, collected from bore-well-I, located inside the unit premises shows complying results as per acceptable limit of Drinking Water Standards (BIS) IS 10500:2012 for Color- BDL, Conductivity- 490 $\mu\text{mho/cm}$, pH- 7.4, COD- BDL, TDS- 314 mg/l, Total hardness- 172 mg/l, Total alkalinity- 269 mg/l, Chloride- 07 mg/l, SO_4 - 06 mg/l and Nitrate- 0.6 mg/l. The analysis for heavy metal is complying w.r.t. the BIS standards except Fe (0.90 mg/l) and Mn (0.21 mg/l) against the permissible limit of Drinking water standards (BIS) (Second Revision) IS 10500: 2012.
45. Similarly, analysis results of sample collected from Hand-pump inside the unit premises shows Color- BDL, Conductivity- 473 $\mu\text{mho/cm}$, pH- 5.7, COD- BDL, TDS- 270 mg/l, Total hardness- 170 mg/l, Total alkalinity- 220 mg/l, Chloride- 12 mg/l, SO_4 - 05 mg/l and Nitrate- BDL mg/l, which is not complying w.r.t. pH as per acceptable limit of Drinking Water Standards (BIS) IS 10500:2012. The analysis for heavy metals are complying w.r.t. the BIS standards (BIS) (Second Revision) IS 10500: 2012.
46. The unit has provision of separate Effluent Treatment Plant for cooling tower overflow treatment with capacity of 600 KL, which is based on Activated Sludge Process comprised of Bar screen chamber \rightarrow Equalization tank \rightarrow Coagulation tank \rightarrow Flocculation tank \rightarrow Primary clarifier \rightarrow Buffer tank \rightarrow Aeration tank \rightarrow Secondary clarifier \rightarrow Collection tank \rightarrow \rightarrow Multigrade filter \rightarrow Activated Carbon Filter.
47. Team has observed that effluent level was above the scum baffle in primary clarifier which could not full fill the purpose and function of primary clarifier in effluent treatment (Pic-28).
48. Samples collected from SRS inlet and outlet are placed in Table 11 below.

Table-11. Analysis samples collected from Sulphate Removal System (SRS)/600 KL ETP inlet and outlet locations.

Parameters, mg/l except pH, Color in Hazen and Conductivity in $\mu\text{mho/cm}$							
Sampling locations	Sulphate	Color	pH	COD	BOD	TSS	TDS
SRS inlet	689	22	5.7	2288	1261	464	6656
SRS outlet	636	45	6.9	950	485	261	4056

49. The team has collected sample from inlet and outlet of SRS for physico-chemical analysis. The analysis results of 600 KL ETP (SRS) outlet shows Color- 45 Hazen, pH- 6.9, COD- 950 mg/l, BOD- 485 mg/l, TSS- 261 mg/l, TDS- 4056 mg/l, Sulphate-636 mg/l.

50. Analysis results of sample collected from SRS outlet showing reduction of ~61.5% in BOD, ~58% in COD, ~39.06% in TDS and only ~7.69% reduction in Sulphate, which indicate inefficient operation and maintenance of SRS system.

5.0 CONCLUSION:

1. The unit M/s Triveni Engineering & Industries Ltd., Village-Raninangal, Tehsil Thakurdwara, District-Moradabad, Uttar Pradesh engaged in producing white sugar by Double Sulphitation process with consented capacity of 5000 TCD using sugarcane.
2. Unit has valid Consent to Operate under section 21/22 of the Air (Prevention & Control of Pollution) Act, 1981 (as amended) and Consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (as amended) for discharge, both valid up to 31.12.2023.
3. The unit has valid Authorization issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for storage and disposal of hazardous wastes which is valid up to 18.09.2025.
4. The unit has agreement dated 01.02.2019 with Bharat Oil & Waste Management Ltd, which is valid for five years (from 2019 to 2023).
5. As per Daily Manufacturing Reports (DMRs) provided by the unit, the average cane crushing from 01.11.2021 up to 31.03.2022 was found to be 4647.47 TCD, (Avg. value as per Form RT7(C) for the month of Nov-21, Dec-21, Jan-22, Feb-22, Mar-22 and Daily Manufacturing Report (DMR) for the month of Apr-22) which was under the consented capacity.
6. Unit has provided Air Pollution Control System (APCS) for two boilers of 80 TPH and 12 TPH, which were found operational during joint inspection. The unit has installed Online Emission Monitoring System in stack and connected to CPCB/SPCB server.
7. Monitoring result of common stack for Particulate Matter (PM) shows value 93.58 mg/Nm³ against 150.0 mg/Nm³ which are complying as per the notified standard mentioned in MoEF&CC Notification G.S.R. (E) dated 14th January, 2016.
8. Ambient air quality monitoring result conducted at Baba Vishwanath Temple for SO_x and NO_x shows 20.00 µg/m³ and 27.00 µg/m³ and ETP Plant shows 19.00 µg/m³ and 26.00 µg/m³ respectively, which are within the norms.
9. The value of SPM in ambient air at Baba Vishwanath Temple near ETP (105.18 µg/m³) and near ETP Plant (108.15 µg/m³) is exceeding the norms of 150 mg/Nm³, which may be due to vehicular movement on road just in front of the unit and movement of tractors/trolleys in cane yard.
10. Boiler ash collected separately with all the precaution to stop spreading fly ash in atmosphere.
11. The unit has maintained proper record of boiler ash generation and its disposal.



12. Unit has installed Online Continuous Effluent Monitoring System (OCEMS) which is connected with CPCB/SPCB server.
13. Unit is complying w.r.t. final specific waste water discharge volume norms as the effluent discharge i.e. **153.83 Liter/Ton** of cane crush against norms of 200 Liter/ton of cane crush.
14. The analysis results of sample collected from the ETP outlet (pH- 6.9, COD- 30 mg/l, BOD- 05 mg/l, TSS- 19 mg/l, TDS- 572 mg/l, Oil & Grease- BDL) indicates that treated effluent is complying w.r.t. the notified standards for irrigation purpose i.e. pH- 5.5-8.5, COD- 250 mg/l, BOD- 100 mg/l, TSS- 100 mg/l, TDS- 2100 mg/l).
15. Analysis results of Secondary Clarifier-II showing reduction of ~99% in BOD, ~98% in COD and ~41% in TDS from Primary Clarifier just after the treatment through Aeration Tank-I, Secondary Clarifier-I & Aeration Tank-II. MLSS of Aeration Tank-I & Aeration Tank-II was found to be 3941 mg/l and 5614 mg/l respectively against the desired value of 2500 mg/l to 3000 mg/l.
16. The MLVSS/MLSS values are measured 0.53 and 0.43 for Aeration Tank-I & Aeration Tank-II respectively, which is below the desired ratio of 0.70 to 0.80.
17. Flow meter was installed at the outlet of lagoon to measure the quantity of treated effluent supplied for irrigation. As per log book from 8th Nov-2021 to 6th Apr-2022 average 421.76 KLD treated effluent is used in irrigation purposes.
18. As per the Irrigation Management Plan prepared by National Sugar Institute (NSI), Kanpur, in the year 2017, the unit has 160.71 hectare of command area for irrigation within the distance from 1 to 2 km from the unit.
19. The unit has setup environmental laboratory for analysis of daily parameters (pH, BOD, COD, TSS etc.). The unit has maintained the ETP log book for daily analysis of ETP effluent parameter.
20. The unit has provided ETP sludge and Press mud to local farmers as organic manure after drying and the unit has maintained the record for the same.
21. The unit has abstracted average 207.91 KLD fresh water from existing two nos. of bore-wells, which is under permitted value of 495 KLD as per UPGWD NOC valid up to 28.02.2026 and 22.02.2026 for bore-well no.-1 and 2 respectively.
22. The unit has one piezometer well in the unit premises to monitor the ground water level.
23. The analysis results of Groundwater samples, collected from bore-well-I, located inside the unit premises are within the acceptable limit of Drinking Water Standards (BIS) IS 10500:2012 for Color- BDL, Conductivity- 490 μ mho/cm, pH- 7.4, COD- BDL, TDS- 314 mg/l, Total hardness- 172 mg/l, Total alkalinity- 269 mg/l, Chloride- 07 mg/l, SO₄⁻ 06 mg/l and Nitrate- 0.6 mg/l. The analysis for heavy metal are also within the acceptable limit of Drinking Water Standards (BIS) IS 10500:2012 w.r.t. the BIS standards except

Fe- 0.90 mg/l against 0.3 mg/l and Mn- 0.21 mg/l against 0.1 mg/l as per acceptable limit of Drinking water standards (BIS) (Second Revision) IS 10500: 2012.

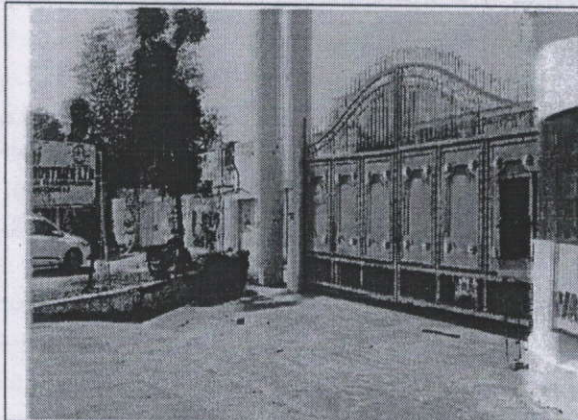
24. Analysis results of sample collected from Hand-pump inside the unit premises shows Color- BDL, Conductivity- 473 μ mho/cm, pH- 5.7, COD- BDL, TDS- 270 mg/l, Total hardness- 170 mg/l, Total alkalinity- 220 mg/l, Chloride- 12 mg/l, SO_4 - 05 mg/l and Nitrate- BDL mg/l and heavy metals are within the acceptable limit of Drinking Water Standards (BIS) IS 10500.2012. pII value of ground water is beyond the acceptable limit of BIS standards and not suitable for drinking purposes.
25. The unit has separate Effluent Treatment Plant for cooling tower overflow treatment with capacity of 600 KL, which is based on Activated Sludge Process. The unit has provision to add the treated effluent of SRS to either into Aeration Tank-I or Aeration Tank-II of 840 KL capacity Effluent Treatment Plant (ETP). Also, due to inefficient operation & maintenance of SRS the sulphate value i.e. 304 mg/l is reflected in the analysis result of sample collected from lagoon.
26. Analysis results of sample collected from SRS outlet showing reduction of ~61.5% in BOD, ~58% in COD, ~39.06% in TDS and only ~7.69% reduction in Sulphate, which indicate that SRT system is not being operated properly.
27. Effluent level was observed above the scum baffle in primary clarifier which could not full fill the purpose and function of primary clarifier.

6.0 RECOMMENDATIONS:

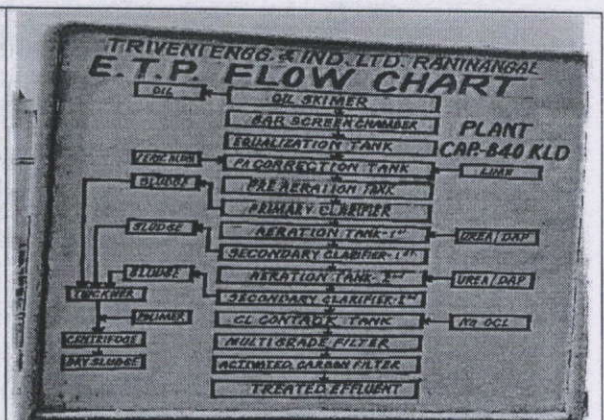
1. The unit shall maintain the MLSS value and MLVSS/MLSS ratio in aeration tanks for proper microbial activity to reduce the organic load in the effluent. The unit shall analyze samples from aeration tank periodically to maintain the MLVSS/MLSS ratio.
2. Operation and maintenance of SRS of 600 KL capacity shall be improved. The unit shall ensure proper treatment of cooling tower overflow through SRS (600 KL) as it shows reduction of ~61.5% in BOD, ~58% in COD, ~39.06% in TDS and only ~7.69% reduction in Sulphate is less than the desired reduction of 80% - 90%.
3. The unit shall maintain good housekeeping at bore-well-II and its surrounding area.
4. The flow of primary clarifier in 600 KL ETP shall be regulated properly in controlled manner, so that the effluent pass through scum baffle to aeration tank.
5. Unit must ensure regular water sprinkling in cane yard and in front of the unit to minimize the dust dispersion in the ambient environment.
6. Unit must take remedial measure for the ground water near hand pump and prohibit its use for the drinking purpose.



7.0 PHOTOGRAPHS



Pic-01. Main gate of the M/s Triveni Engineering & Industries Ltd.



Pic-02. Flow chart showing treatment in different subunits of ETP (840 KL)



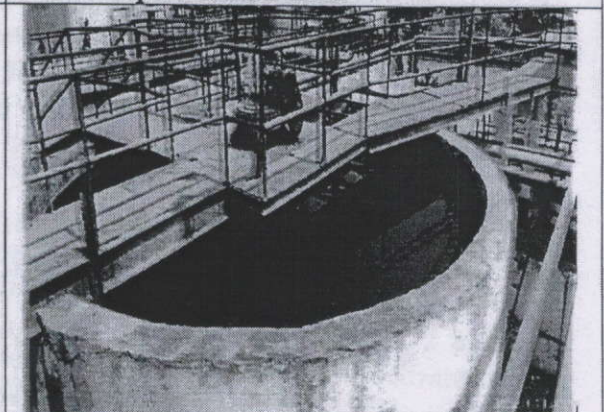
Pic-03. Bar screen chamber (108 m3)



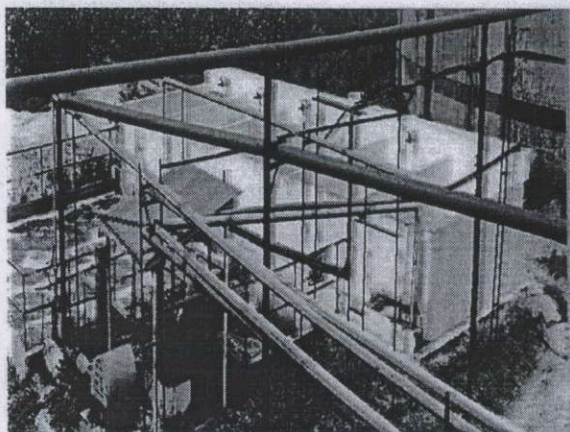
Pic-04. Equalization tank



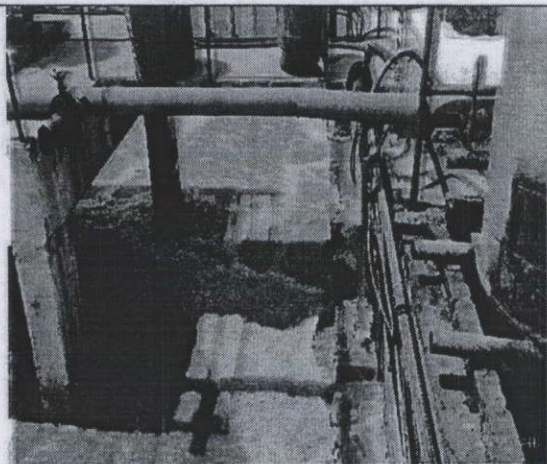
Pic-05. pH correction tank



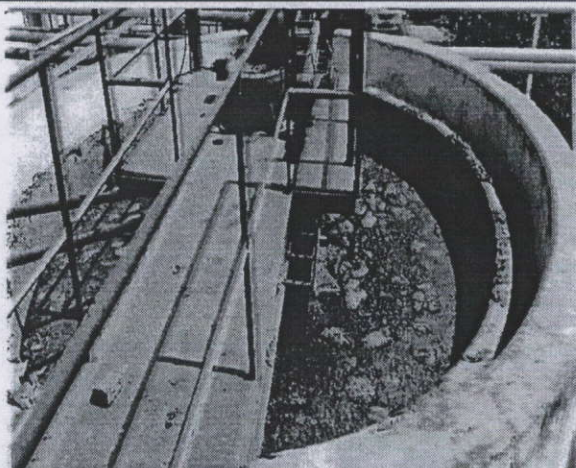
Pic-06. Primary clarifier



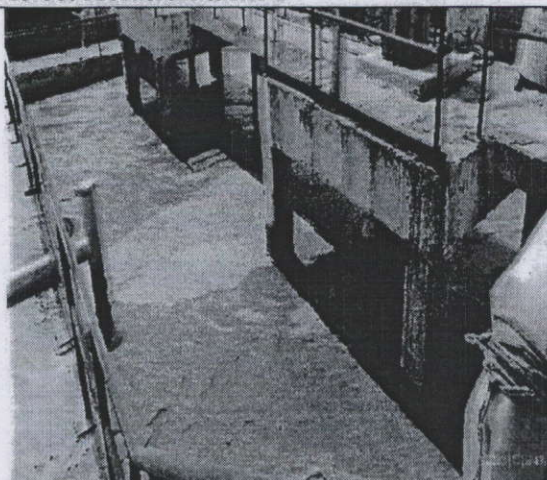
Pic-07. Pre aeration tank



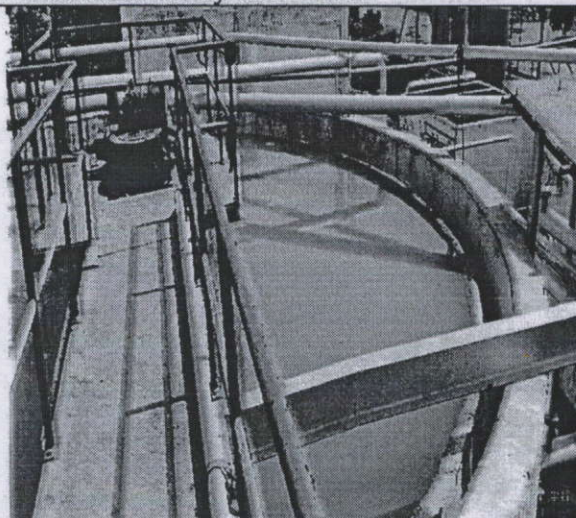
Pic-08. Aeration tank-I



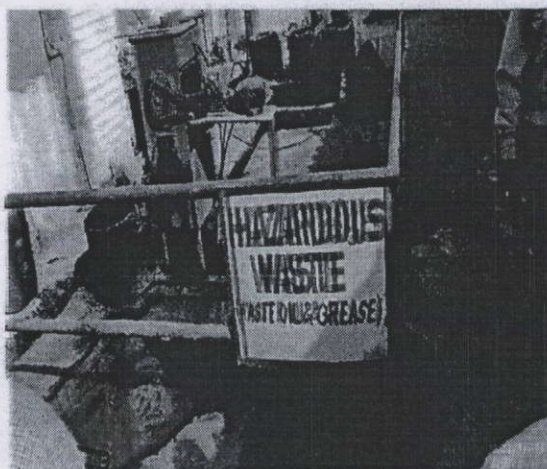
Pic-09. Secondary clarifier-I



Pic-10. Aeration tank-II

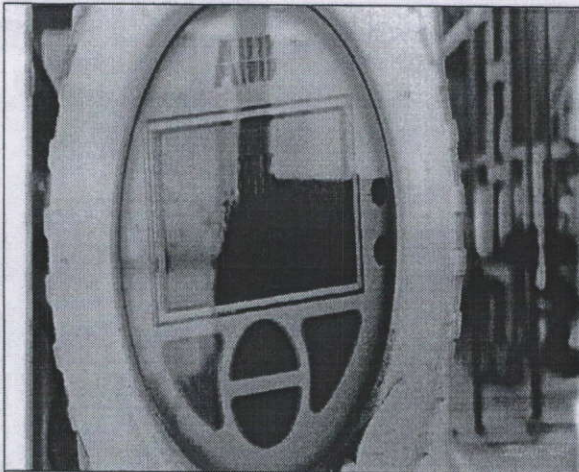


Pic-11. Secondary clarifier-II

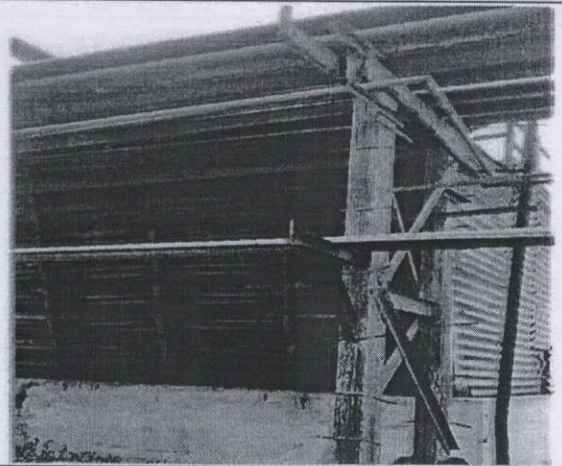


Pic-12. Oil skimmer and O&G collection drums

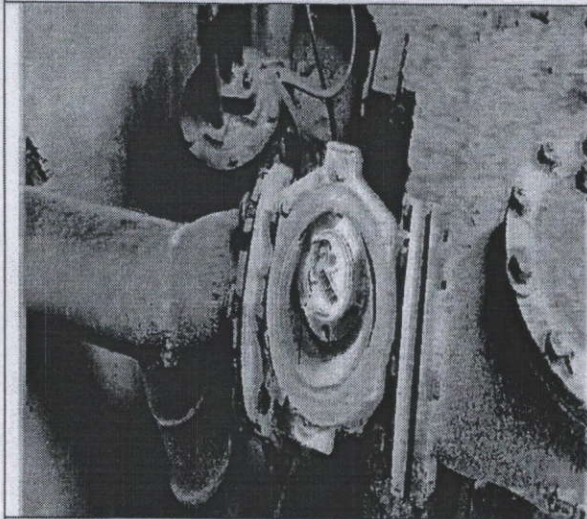
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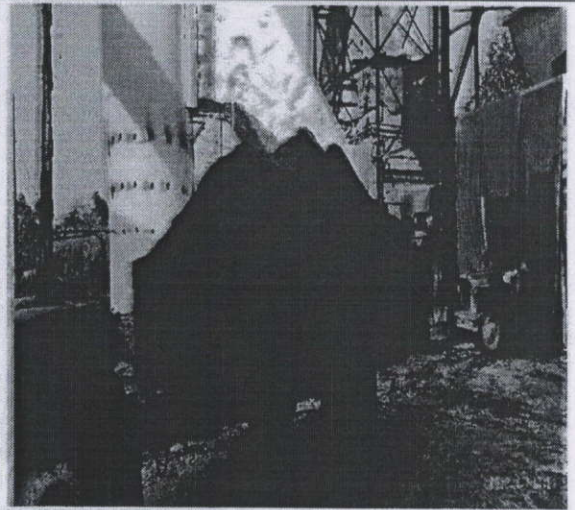
Pic-13. Flow meter at imbibition water at mills



Pic-14. Cooling tower



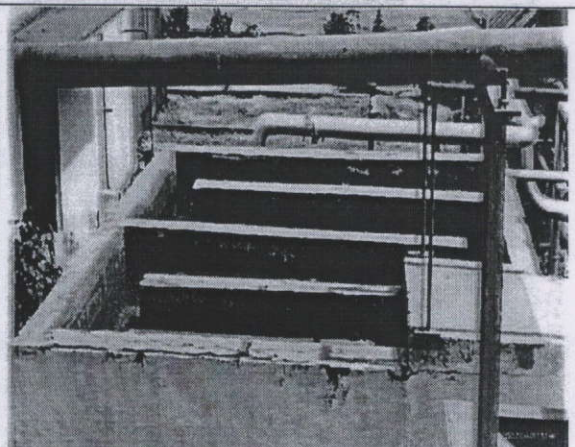
Pic-15. Flow meter at bore-well-I



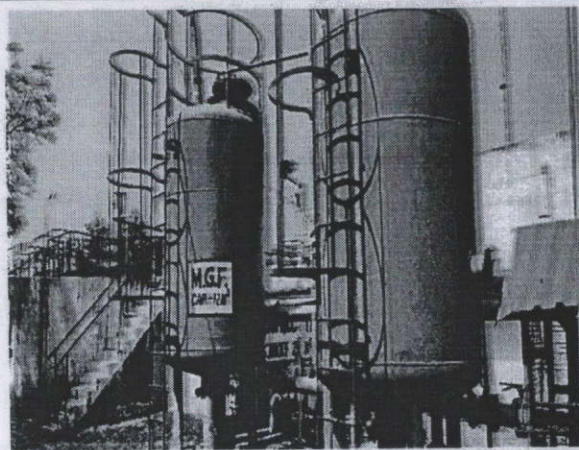
Pic-16. Collection of boiler ash



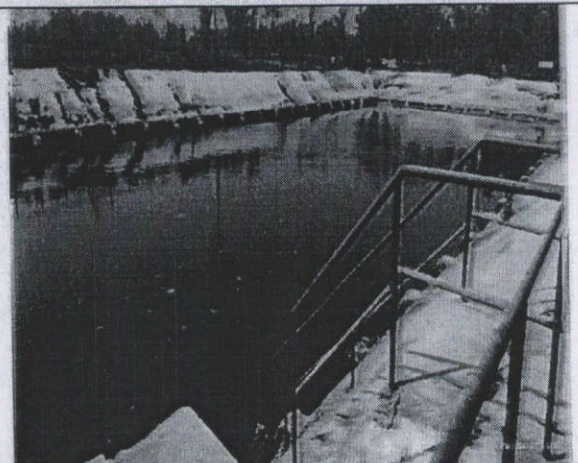
Pic-17. Display of discharge flow of treated effluent at ETP outlet



Pic-18. Chlorine contact tank



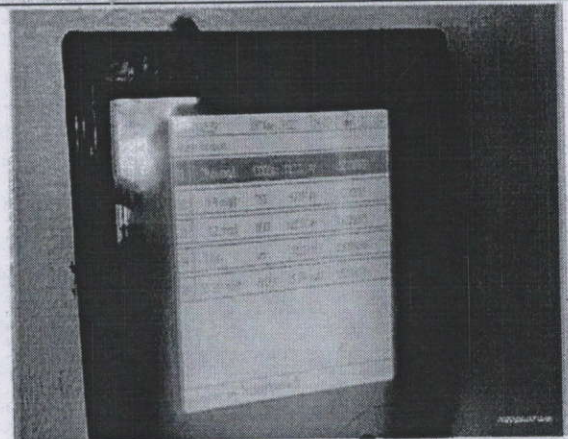
Pic-19. MGF & ACF



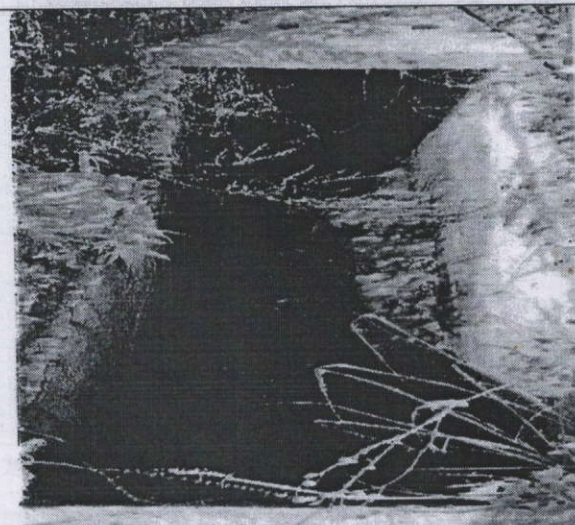
Pic-20. Treated effluent storage lagoon



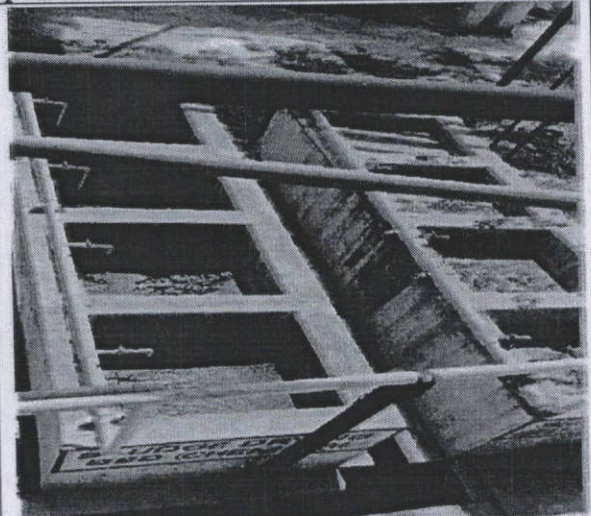
Pic-21. Pic Lagoon outlet (flexible pipeline)



Pic-22. OCEMS displaying treated effluent parameter

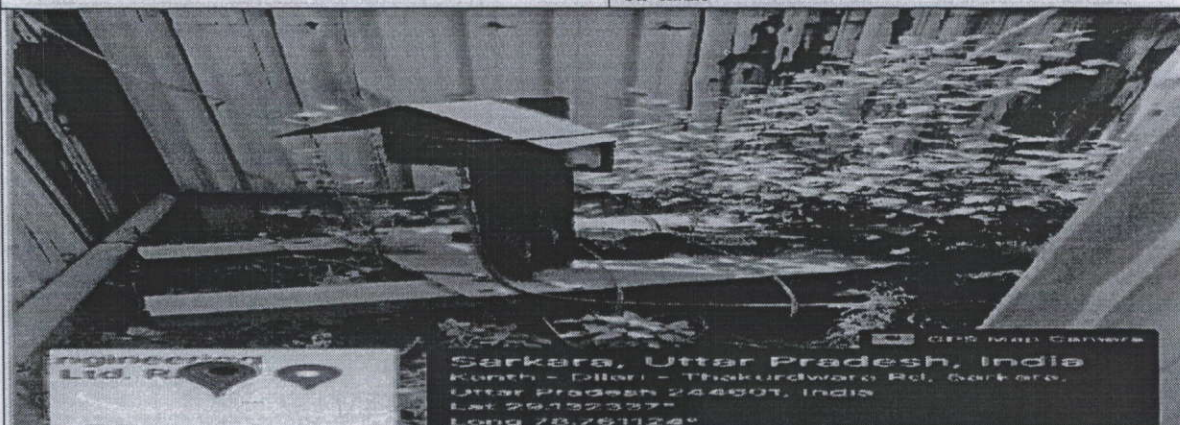
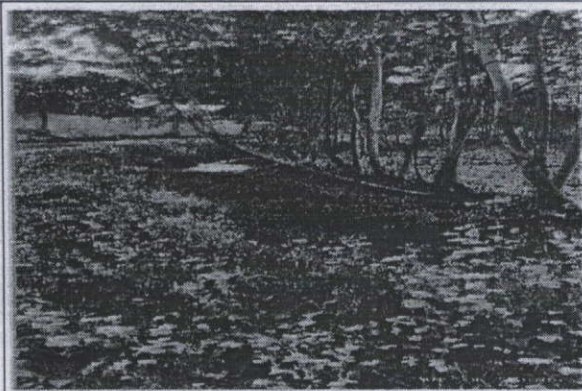
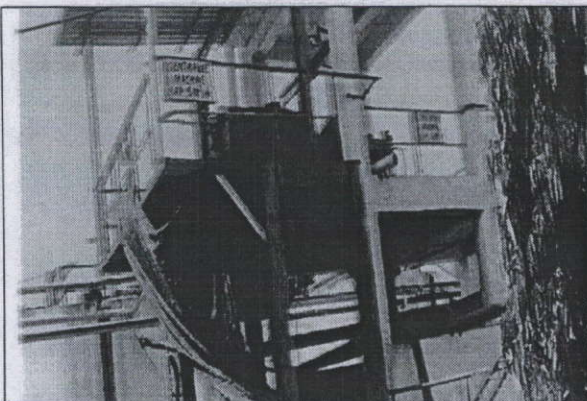


Pic-23. Rain water drain (dry)

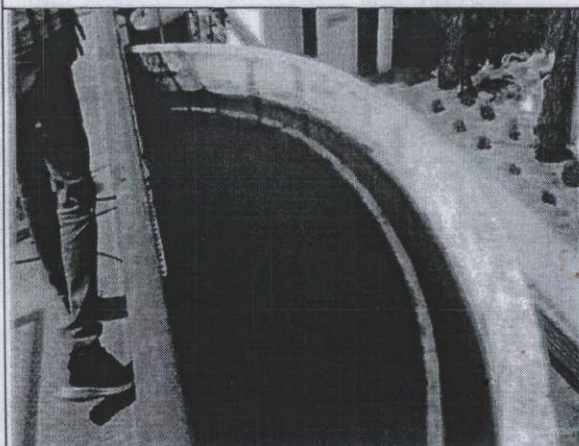


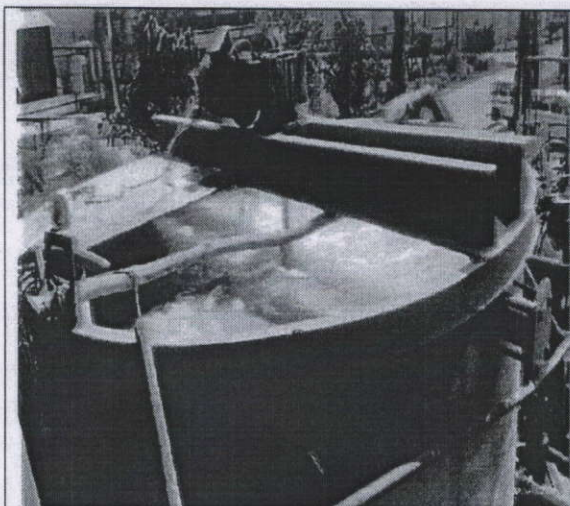
Pic-24. Sludge drying bed

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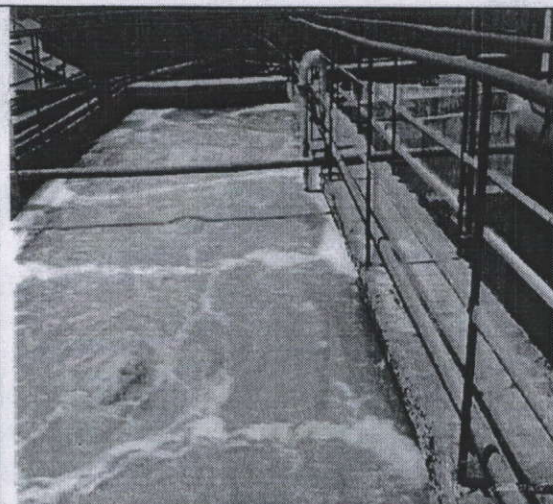


Photographs of cooling tower overflow treatment plant

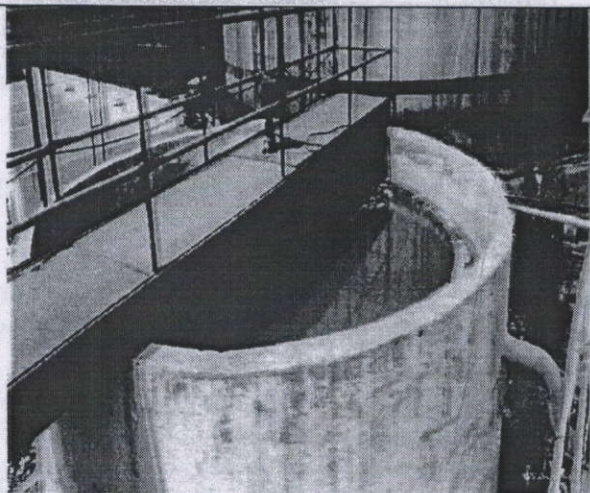




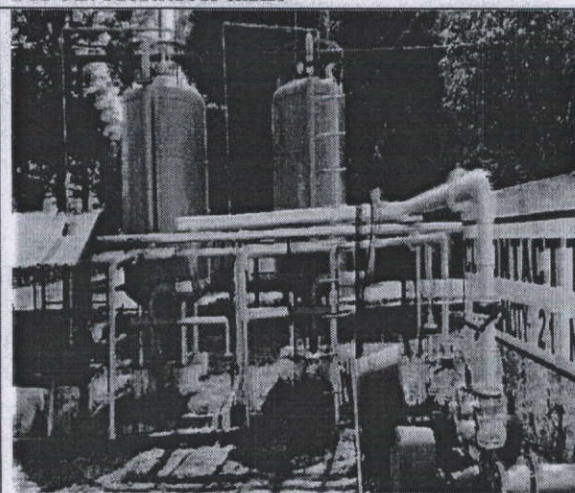
Pic-30. Flocculation tank



Pic-31. Aeration tank

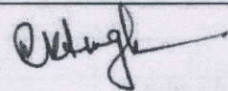
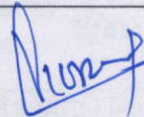



Pic-32. Secondary clarifier



Pic-33. MGF & ACF

8.0 INSPECTION TEAM

Name of the inspecting officers	Designation	Signature
Dr. R. K. Singh	Scientist-D, Central Pollution Control Board, Delhi	
Shri Vinod Kumar	Assistant Environment Engineer, Regional Office, Moradabad, Uttar Pradesh Pollution Control Board	
Shri Rajeev Gupta	M.A., Regional Office, Moradabad, Uttar Pradesh Pollution Control Board	



Annexure

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. -

142311/UPPCB/Moradabad(UPPCBRO)/CTO/air/MORADABAD/202

1

Dated : 11/02/2022

To ,

Shri TARUN SAWHNEY

M/s TRIVENI ENGINEERING INDUSTRIES LIMITED

VILLAGE-RANI NANGAL, POST-ALIABAD PIPLI, TEHSIL-THAKURDWARA,

DISTRICT-MORADABAD, UP 244601,MORADABAD,244601

MORADABAD

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. TRIVENI ENGINEERING INDUSTRIES LIMITED

Reference Application No. 14116835

Dated : 11/02/2022

1. With reference to the application for consent for emission of air pollutants from the plant of M/s TRIVENI ENGINEERING INDUSTRIES LIMITED. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 01/01/2022 to 31/12/2023 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.

This consent is being issued with the permission of competent authority .

**AJAY
KUMAR
SHARMA**

Digitally signed by
AJAY KUMAR
SHARMA
Date: 2022.02.11
19:53:46 +05'30'

For and on behalf of U.P. Pollution Control Board

Chief Environment Officer

Enclosed : As above

(condition of consent):

Copy to: Regional Officer Moradabad to ensure the compliance of the conditions imposed in the consent order.

AJAY KUMAR SHARMA
Digitally signed by
AJAY KUMAR SHARMA
Date: 2022.02.11
19:54:32 +05'30'

U.P. Pollution Control Board

Dated : 11/02/2022

CONDITIONS OF CONSENT

1. This consent is valid for the approved production capacity of cane crushing Cane Crushing Capacity of 5000 TCD .
2. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
- 3(a) The maximum rate of emission of flue gas should not be more than the emission norms for the stacks.
- 3(b) . Air Pollution Source Details.

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	Boiler of 80 TPH	Bagasse	01	Particulate Matter	Electrostatic Precipitator as APCS along with stack height of 60 meter from ground level
2	Boiler of 12 TPH	Bagasse	01	Particulate Matter	Wet scrubber and common stack of 60 meter from ground level connected with 80 TPH boiler
3	DG set of 500 KVA, 500 KVA and 180 KVA	Diesel	02	Particulate Matter	Stack height of 4.5 meter , 4.5 meter and 2.7 meter above the roof of nearest building

- 3(c) . The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	01	Particulate Matter	150mg/Nm3
2	02	Particulate Matter	As per E(P)Rules 1986

4. The industry should be operated in such a manner that it does not adversely affect the environment and the solid waste generated such as ash etc. is disposed in eco friendly manner .
5. Any source of emission other than that mentioned in the Air consent seeking application will not be permitted by the Board .
6. The industry should ensure the operation of the air pollution control system (APCS) in such a manner that the air emission confirms with the standards prescribed under the E.P Act 1986 as amended.
7. The industry shall submit Environmental Statement in prescribed format as per rule no.14 as per E.P Rules 1986 .

8. The industry shall abide by orders / directions issued by Hon'ble Supreme court Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time .
9. Industry shall submit monthly monitoring reports of all stacks and ambient air quality from a certified / approved laboratory under E.P. Act 1986 .
10. The industry shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.
11. The industry will ensure the continuous and uninterrupted data supply from the OCEEMS to the CPCB and SPCB .
12. The unit shall submit audited balance sheet for the current year and the details of fees deposited during last three years within a month failing which consent would be deemed void.
13. The use of Pet coke and Furnace oil as a fuel in the factory is restricted in compliance of the Hon'ble Supreme court order .
14. The Industry will use minimum 20% Bio Briquette as fuel in the Boiler depending upon its availability .
15. The industry shall obtain prior consents in the event of any addition of new emission generation sources such as- Boiler/ Furnace/ Heaters/ D.G. Sets or alteration of existing emission sources in accordance with section- 21/22 of air Act 1981 (as amended respectively).
16. Minimum 33% of the land on which industry is established will be covered and properly maintained by the plantation of tall trees of suitable species as per the guidelines set up by the Board vide its Office Order no.H-16405/220/2018/02 dt. 16/02/2018. The copy of this guideline is available at URL http://www.uppcb.com/pdf/Green-Belt-Guide_160218.pdf .
17. If closure order is issued by CPCB or UPPCB against the unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective with additional conditions mentioned in the closure revocation order .
18. Industry shall abide by the directions given by Hon'ble Court, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time .

The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This Consent to Operate Air is valid for production Sugar and cane crushing capacity of 5000 TCD.
2. This Consent to Operate shall be subject to the orders passed by Hon'ble NGT in O.A. No. 279 of 2021 Nagendra Singh vs State of U.P. and others.
3. Unit shall operate and maintain the APCS i.e. ESP and wet scrubber and common stack height of 60 meter from ground level at the boilers of 80 TPH and 12 TPH.
4. DG sets of 500 KVA, 500 KVA and 180 KVA shall always be equipped with canopy and proper stack height of 4.5 meter, 4.5 meter and 2.7 meter above the roof of nearest building.
5. Unit shall use Bio-briquette as co-fuel with main fuel in the ratio of minimum 20 percent in boiler subject to its availability.
6. Unit shall develop Green Belt in minimum 33 percent area of Industrial Premises as per the provisions laid down in office order no. II16405/220/2018/02 dated 16-02-2018 of U.P. Pollution Control Board. The copy of said office order is available on the website of U.P. Pollution Control Board www.uppcb.com.
7. The overall noise levels in and around area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc, on all sources of noise generation. The ambient noise level shall conform to the standards under the Environment (Protection) Act 1986.
8. Fly ash shall be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with storm water. Direct exposure of workers to fly ash & dust shall be avoided.
9. Unit shall comply the provisions of Water (Prevention and Control of Pollution) Act 1974 as Amended, Air (Prevention and Control of Pollution) Act 1981 as Amended and Environment (Protection) Act 1986, and direction issued by Hon'ble National Green Tribunal, New Delhi in Order dated 13.07.2017 in OA no. 200/2014, M.C. Mehta v/s Union of India.
10. Unit shall submit emission monitoring report of the stack of air polluting sources done by MoEF & CC approved laboratory in every 3 months.
11. This Consent order shall automatically become invalid on issuance of Closure Order by C.P.C.B / UPPCB and further on Revoking of Closure order, the Consent order shall become valid.

Issued with the permission of competent authority .

AJAY KUMAR SHARMA Digitally signed by AJAY KUMAR SHARMA
Date: 2022.02.11 19:55:20
For and on behalf of U.P. Pollution Control Board .

Chief Environment Officer



Annexure-II

UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

**Ref No. -
141581/UPPCB/Moradabad(UPPCBRO)/CTO/wa
ter/MORADABAD/2021**

Dated : 05/02/2022

To ,

**Shri TARUN SAWHNEY
M/s TRIVENI ENGINEERING INDUSTRIES LIMITED
VILLAGE-RANI NANGAL, POST-ALIABAD PIPLI, TEHSIL-THAKURDWARA,
DISTRICT-MORADABAD, UP 244601,MORADABAD,244601
MORADABAD**

**Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974
(as amended) for discharge of effluent to M/s. TRIVENI ENGINEERING INDUSTRIES
LIMITED**

Reference Application No :14044435

Dated :05/02/2022

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. TRIVENI ENGINEERING INDUSTRIES LIMITED is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tant/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 01/01/2022 to 31/12/2023 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Previntion and Controt of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

**AJAY
KUMAR
SHARMA**

**Digitally signed by
AJAY KUMAR
SHARMA
Date: 2022.02.05
14:03:45 +05'30'**

For and on behalf of U.P. Pollution Control Board

Chief Environment Officer

**Enclosed : As above
(condition of consent):**

**Copy to: Regional Officer Moradabad to ensure the compliance of the conditions imposed in the consent
order.**

**AJAY KUMAR
SHARMA**

**Digitally signed by AJAY
KUMAR SHARMA
Date: 2022.02.05
14:03:45 +05'30'**

Chief Environment Officer

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s. TRIVENI ENGINEERING INDUSTRIES LIMITED vide

Consent Order No. 14044435/ Water

Dated : 05/02/2022

CONDITIONS OF CONSENT

1. This consent is valid for the approved production capacity of Cane Crushing Capacity of 5000 TCD
2. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
3. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge, KL/day	Treatment facility and discharge point
1	Domestic	5 KLD	Septic Tank
2	Industrial	Industrial effluent quantity shall be restricted to 500 KLD and Cooling Tower blow down shall be restricted to 500 KLD, only one outlet is allowed	ETP

4. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. The treated domestic and industrial effluent if discharged outside the premises, if meets at the end of final discharge point, arrangement should be made for measurement of effluent and for collecting its sample. Except the effluent informed in the application for consent no other effluent should enter in the said arrangements for collection of effluent. It should also be ensured that domestic effluent should not be discharged in storm water drain .
- 4(a) The domestic effluent should be treated in the treatment plant so that it should be in conformity with the norms of treated effluent as stipulated in E.P. Rules 1986 as amended.

Domestic Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	100mg/l
2	BOD	30mg/l
3	COD	250mg/l
4	Oil & Grease	10mg/l
5	Quantity of Discharge	5 KLD

- 4(b) The industrial effluent should be treated in treatment plant so that the treated effluent should be in conformity with the standard lay down under the notification issued by MOEF&CC vide its GO no GSR 35 (E) dated 14/01/2016.

Industrial Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	100mg/l (for discharge in on land for irrigation), 30mg/l (for discharge in surface water body)
2	BOD	100mg/l (for discharge in on land for irrigation), 30mg/l (for discharge in surface water body)
3	COD	250mg/l
4	Oil & Grease	10mg/l
5	Quantity of Discharge	Industrial effluent quantity shall be restricted to 500 KLD and Cooling Tower blow down shall be restricted to 500 KLD and only one outlet is allowed

4(c) Loading Rates for different soil textures.

S.No	Soil Texture	Loading rate in m3/Ha/Day
------	--------------	---------------------------

5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Rules, 1986 or otherwise mandatory.
6. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/ standards prescribed under the Environment (Protection) Act, 1986.
7. The industry shall establish the cooling arrangement and polishing tank for recycling the excess condensate water to process or utilities or allied units.
8. Effluent Treatment Plant to be stabilized one month prior to the start of the crushing season and continue to operate one month after the crushing season.
9. During no demand period for irrigation, the treated effluent to be stored in a seepage proof lined pond having 15 days holding capacity only.
10. The industry shall implement treated effluent flow distribution measurement for irrigation purposes completely in accordance with irrigation plan.
11. The impact of treated effluent application on land is to be included further in E.I.A. studies, involving ground water monitoring point identified in close proximity to the unit.
12. The industry will have to ensure compliance of the permission from the CGWA before ground water extraction and it will be the responsibility of the industry to comply with the various conditions of the permission taken.
13. The industry shall submit Environmental Statement in prescribed form V rule no.14 of E.P Rules 1986.
14. The industry shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.
15. Minimum 33% of the land on which unit is established will be covered and properly maintained by the plantation of tall trees of suitable species as per the guidelines set up by the Board vide its Office Order no.H-16405/220/2018/02 dt. 16/02/2018. The copy of this guideline is available at URL http://www.uppcb.com/pdf/Green-Belt-Guidle_160218.pdf.
16. The industry will ensure the continuous and uninterrupted data supply from the OCEEMS to the CPCB and SPCB .
17. Flow meter to be installed in all water abstraction points and usage of fresh water to be minimized. The unit will ensure facility to transmit data to CPCB server and submit a regular calibration certificate of Electro Magnetic Flow meter to the Board.

18. If closure order is issued by CPCB or UPPCB against the unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective with additional conditions mentioned in the closure revocation order.
19. Industry shall abide by the directions given by Hon'ble Court, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.
20. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This Consent to Operate Water is valid for production Sugar and cane crushing capacity of 5000 TCD.
2. This Consent to Operate shall be subject to the orders passed by Hon'ble NGT in O.A. No. 279 of 2021 Nagendra Singh vs State of U.P. and others.
3. Industrial effluent quantity shall be restricted to 500 KLD and Cooling Tower blow down shall be restricted to 500 KLD and only one outlet is allowed in compliance of notification no G.S.R.35(E) dated 15.01.2016 of MoEF&CC.
4. Unit shall make arrangements for treatment of Domestic effluent 5KLD with prior permission of Board.
5. Unit shall use the treated effluent for irrigation on land of its own and land contracted from the farmers and rest shall be discharge as per norms stipulated in notification no G.S.R. 35 (E) dated 15.01.2016 of MoEF&CC.
6. Unit shall identify recipient drains/ rivulets and their u/s & d/s location in consultation with UPPCB and shall carry out monthly monitoring of identified recipient drains at u/s & d/s location through lab recognized under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis by 10th of every month to CPCB and UPPCB.
7. Unit shall operate and maintain the installed electromagnetic flow meter at water source and outlet of ETP with running hours and maintain the records of water extracted and treated effluent supplied to irrigation or discharge in drain.
8. Unit shall maintain pipe line from outlet of ETP and to the point of irrigation land.
9. Unit shall operate and maintain the installed online effluent monitoring system at the outlet of ETP and ensure the connectivity to the servers of CPCB and UPPCB.
10. Unit shall develop Green Belt in minimum 33 percent area of Industrial Premises as per the provisions laid down in office order no. H16405/220/2018/02 dated 16-02-2018 of U.P. Pollution Control Board. The copy of said office order is available on the website of U.P. Pollution Control Board www.uppcb.com.
11. Unit shall comply the provisions of Water (Prevention and Control of Pollution) Act 1974 as Amended, Air (Prevention and Control of Pollution) Act 1981 as Amended and Environment (Protection) Act 1986, and direction issued by Hon'ble National Green Tribunal, New Delhi in Order dated 13.07.2017 in OA no. 200/2014, M.C. Mehta v/s Union of India.
12. Unit shall submit treated effluent monitoring report of the ETP and ground water quality of premises as well as of the irrigated area done by MoEF & CC approved laboratory in every 3 months.
13. The mechanical sludge dewatering/handling system for better management of wet sludge shall be provided by the Unit.
14. The Unit shall maintain the log-book for the generation and disposal of ETP sludge, Boiler Ash and other solid wastes.
15. The Unit shall install Condensate Polishing Unit (CPU) for high pressure boilers (105 Kg/cm²).
16. The Unit shall explore the possibility of maximum utilization of treated effluent in different process.
17. The lagoon must be properly lined to prevent leaching/ contamination of ground water.
18. Unit shall install flow meters at Mill Fibrizer, Mescuite cooling and RO reject and submit the compliance with authentic data and records thereof.
19. Unit shall provide Hazardous tank in the Boiling house.
20. Unit shall provide lagoon (for storage of treated effluent) properly lined to prevent leaching/ contamination of ground water.
21. This Consent order shall automatically become invalid on issuance of Closure Order by C.P.C.B / UPPCB and further on Revoking of Closure order, the Consent order shall become valid.

Issued with the permission of competent authority .

**AJAY KUMAR
SHARMA**

Digitally signed by AJAY KUMAR
SHARMA
Date: 2022.02.05 14:06:01 +05'30'

For and on behalf of U.P. Pollution Control Board .

Chief Environment Officer

ALAY KUMAR
SHARMA

**Annexure-III****UTTAR PRADESH POLLUTION CONTROL BOARD**

TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone: 0522-2720828, 2720831 Fax: 0522-2720764 Email: info@uppcb.com Website: www.uppcb.com

Ref. No : 12600/UPPCB/Moradabad(UPPCBRO)/HWM/MORADABAD/2020

Dated : 15/10/2020

To,

M/s TRIVENI ENGINEERING INDUSTRIES LIMITED

VILLAGE-RANI NANGAL, POST-ALIABAD PIPLI, TEHSIL-THAKURDWARA, DISTRICT-MORADABAD, UP 244601, MORADABAD, 244601

Tehsil : Thakurdwara

District : MORADABAD

Sub :- Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1. Number of authorization and date of issue 12600 and 15/10/2020.
2. Reference of application (No. and date) 9276450 and 14/08/2020.
3. Mr TARUN SAWHNEY VC AND MD of M/s TRIVENI ENGINEERING INDUSTRIES LIMITED is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, utilization, storage and disposal or any other use of hazardous or other wastes or both on the premises situated at VILLAGE-RANI NANGAL, POST-ALIABAD PIPLI, TEHSIL-TH.

Details of Authorisation

S No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing, etc.	Quantity(ton/annum)
1	Schedule I (Category 5.1) waste oil	TSDF/ Authorized Recyclers	1.3 Ton per annum

1. The authorization shall be valid for a period of 18/09/2025 from the date of issue of this letter.
2. The authorization is subject to the following general and specific conditions: (please specify any conditions that need to be imposed over and above general conditions, if any).

A General Conditions of Authorization -

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation.

5. The person authorised shall implement Emergency Response Procedure (ERP) for which authorisation is being granted considering all site specific possible scenarios such as spillage leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and penalty.
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of Import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Changes or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B Specific Conditions of Authorization

1. Unit shall ensure compliance of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
2. Unit shall comply with the provisions of Rule 19 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and send copy of Form 10 regarding Manifest for Hazardous and Other Wastes.
3. Unit shall comply with the provisions of Rule 20 of The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and submit Annual Returns to State Board in Form IV.

(Authorized Signatory)

Amit

Chandra

UTTAR PRADESH POLLUTION CONTROL BOARD

Copy to: To the Regional Officer, U.P. Pollution Control Board, Moradabad for information and necessary action.

Amit

Chandra

CEO/EE, I/C Circle



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (C)

[See Rule 8(1)]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: NOC026096

VALID UP TO : 28/02/2026

{UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019}

Registration No.: 202101000453			
Name of the Owner	TARUN SAWHNEY VCANDMD		
Designation पद	AGM	Company Name कंपनी का नाम	Triveni Engg. & Ind. Ltd Sugar Unit Raninangal
Company Address कंपनी का पता	Vill- Raninangal Po Aliabad Distt- Moradabad	Authorization Letter प्राधिकार पत्र	Download
Address of the Applicant	VILLAGE-RANI NANGAL, POST- ALIABAD PIPLI, TEHSIL- THAKURDWARA, DISTRICT- MORADABAD, UP 244601	Application Form Serial No.	MRBD0121NIN0019
Date of Submission	24/01/2021	Specimen Signature	
Location Particulars			
District	Moradabad	Block	THAKURDWARA
Plot No./Khasra No.	N/A	Municipality/Corporation	NA
Ward No./Holding No.			NA
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	09/02/2007		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	105.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	50.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	150.00
Date of Energization (In Case of Electric Pump)		10/02/2007	
Maximum Allowable Rate of Withdrawal (m3/hr.):	150.00	Maximum Allowable Running Hours Per Day:	2.00

Maximum Allowable Annual Extraction of Ground Water:

90000

This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours 1 day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

GENERAL CONDITIONS:

- In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization
- For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands
- In case of any change of ownership of the existing well, fresh registration has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration
- In case, any of the particulars / information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis
- Guidelines for Installation of Piezometers and their Monitoring**

Piezometer is a borewell /tubewell used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing when ever needed. General guidelines for installation of piezometers are as follows:

- The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
- The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometers are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
- No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter upto two decimal.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site specific requirement regarding safety and access for measurement may be taken care off.
- Any other condition(s) that may be imposed by the concerned Authority.

- In case, any of the particulars I information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- Any other condition imposed by the concerned Authority.
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- **SPECIFIC CONDITIONS:**
- **(A) For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
 - iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to CGWA. All such Industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
 - iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³ /day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 15 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
 - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
 - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
 - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- **(B) Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc

This certificate is electronically generated and does not require digital signature



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (C)

[See Rule 8(1)]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: NOC029357

VALID UP TO : 22/02/2026

{UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019}

Registration No.: 202101000461

Name of the Owner	TARUN SAWHNEY VCANDMD		
Designation पद	AGM HR	Company Name कंपनी का नाम	Triveni Engg. & Ind. Ltd Sugar Unit Raninangal
Company Address कंपनी का पता	Vill- Raninangal Po Aliabad Distt- Moradabad	Authorization Letter प्राधिकार पत्र	Download
Address of the Applicant	VILLAGE-RANI NANGAL, POST- ALIABAD PIPLI, TEHSIL- THAKURDWARA, DISTRICT- MORADABAD, UP 244601	Application Form Serial No.	MRBD0121NIN0020
Date of Submission	25/01/2021	Specimen Signature	
Location Particulars			
District	Moradabad	Block	THAKURDWARA
Plot No./Khasra No.	N/A	Municipality/Corporation	NA
Ward No./Holding No.			NA
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	09/02/2007		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	105.00
Purpose of well	Industrial	Assembly Size (For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	30.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	65.00
Date of Energization (In Case of Electric Pump)		10/02/2007	
Maximum Allowable Rate of Withdrawal (m3/hr.):	65.00	Maximum Allowable Running Hours Per Day:	3.00

Maximum Allowable Annual Extraction of Ground Water:

71175

This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours 1 day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

GENERAL CONDITIONS:

- In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters.
- The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
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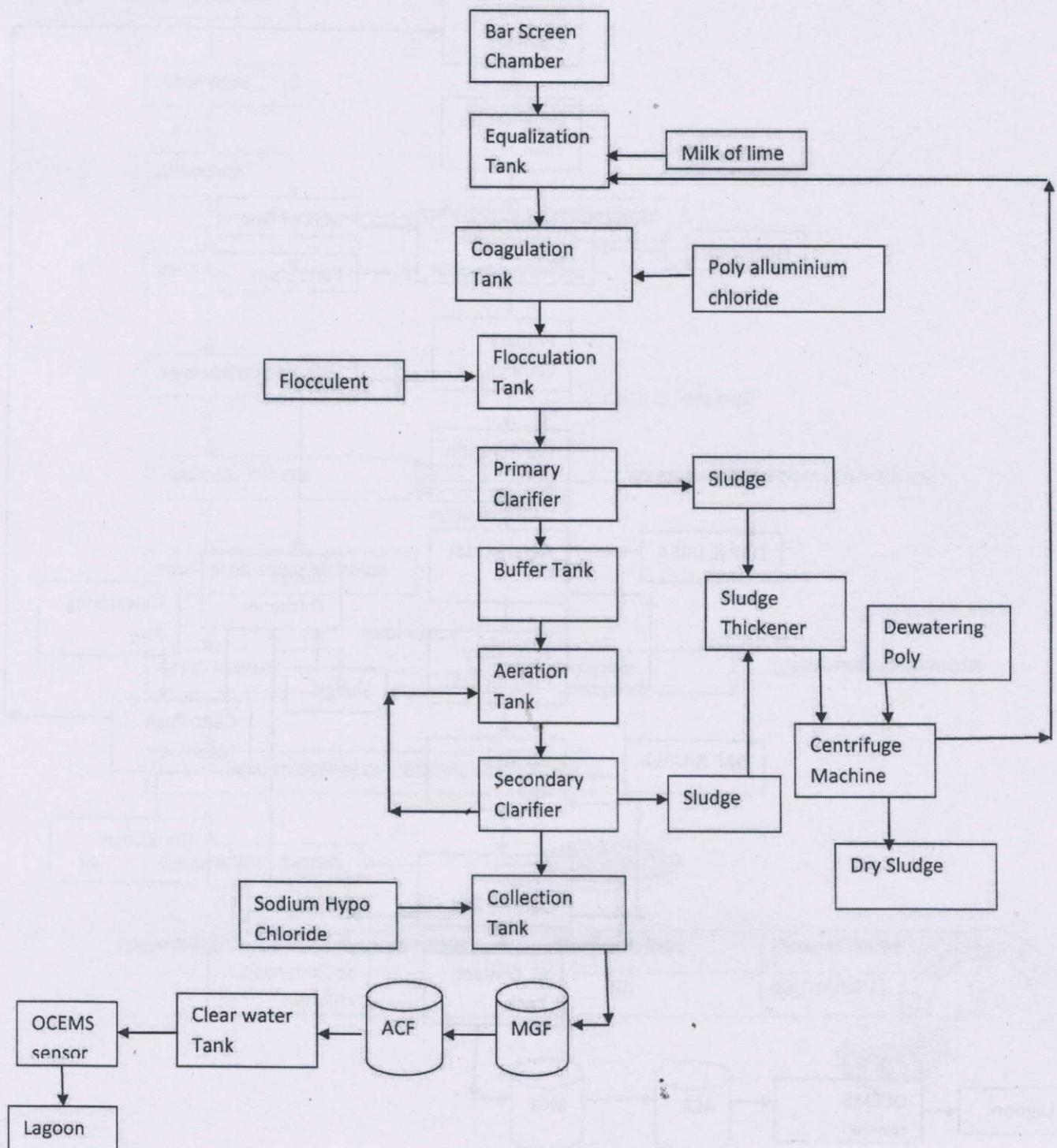
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 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc

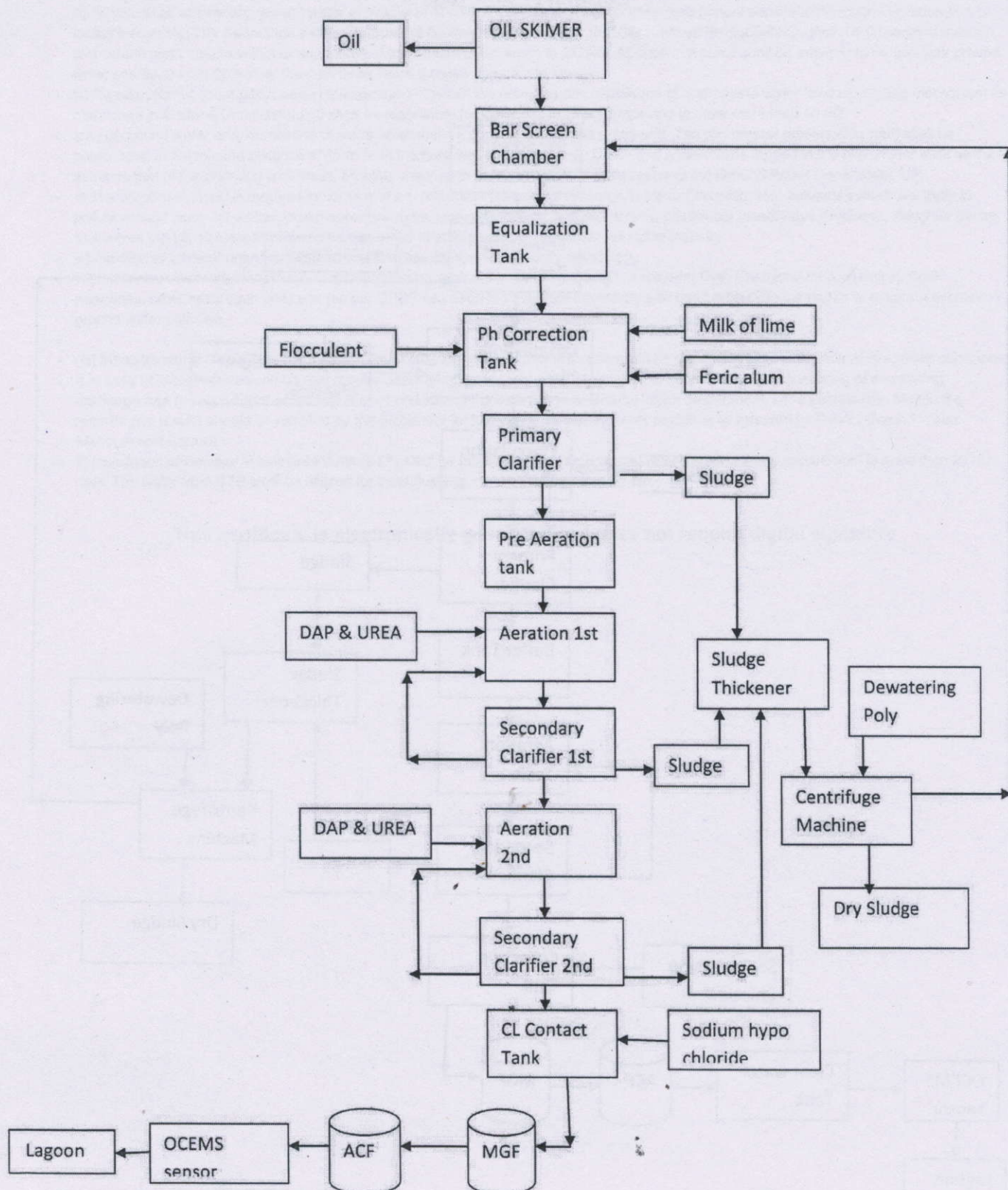
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Triveni Engineering & Industries Ltd. Unit- RaninangalCT OVER FLOW ETP flow chartCapacity -600 KLD

Triveni Engineering & Industries Ltd. Unit- Raninangal

Process ETP flow chart

Capacity of ETP- 840 KLD



TRIVENI ENGINEERING & INDUSTRIES LTD

Annexure 'M'

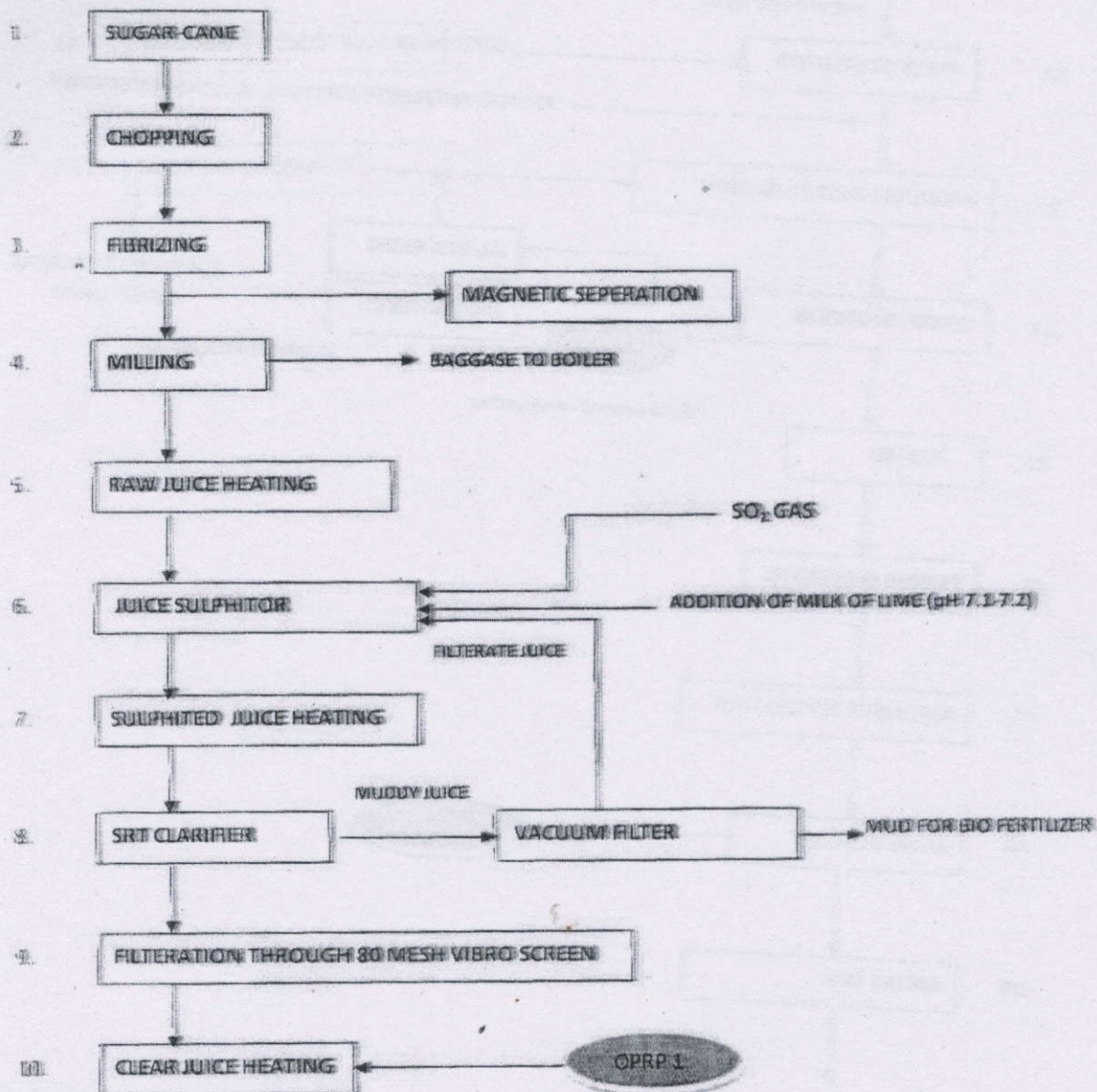
TEIL/SOP/MR/08

HACCP

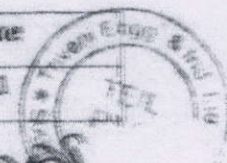
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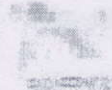
PROCESS FLOW CHART

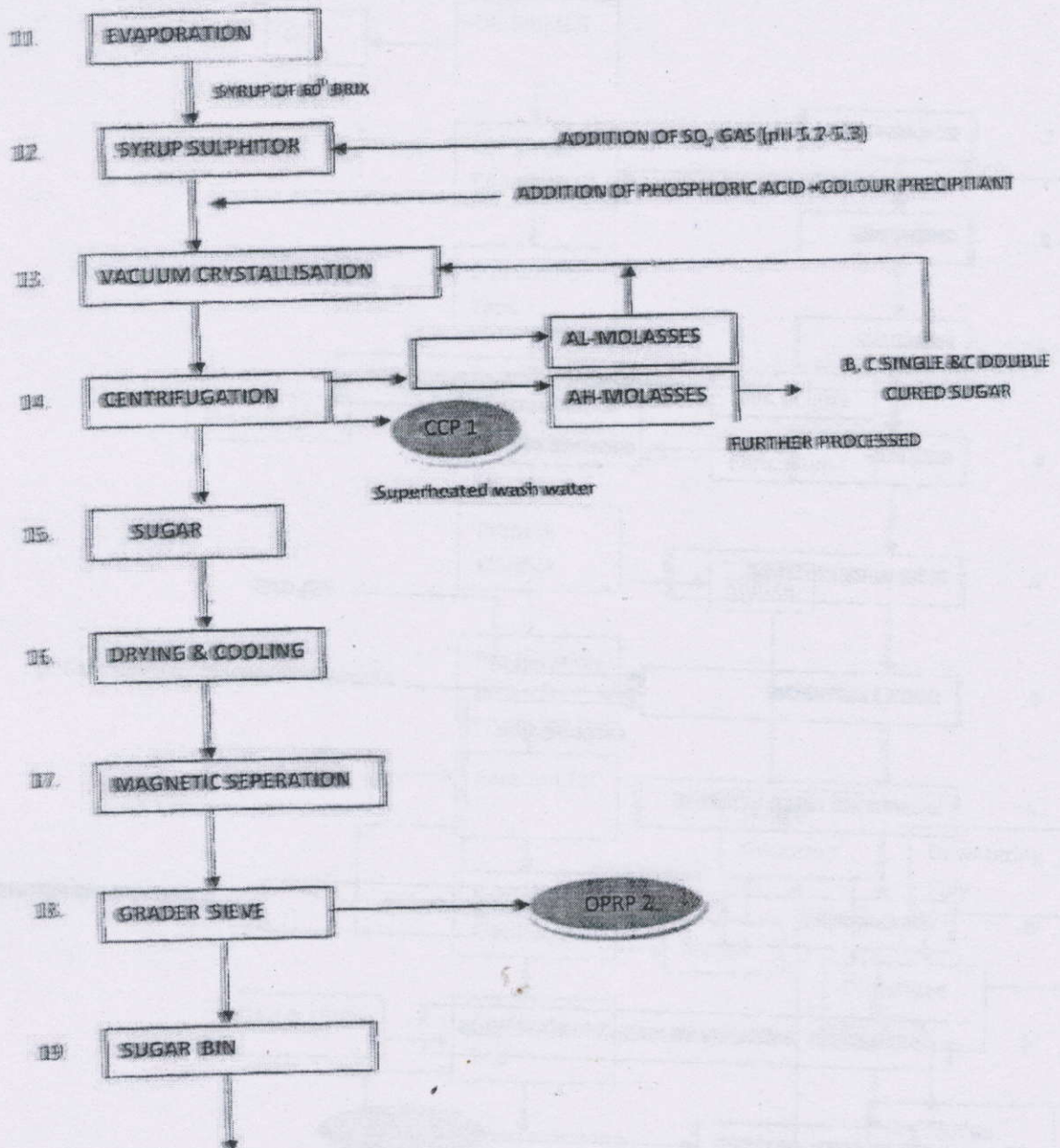
Page 1 of 3



Issued By :	Approved By :	Revision No :	Date of Issue
		00	01/10/2011



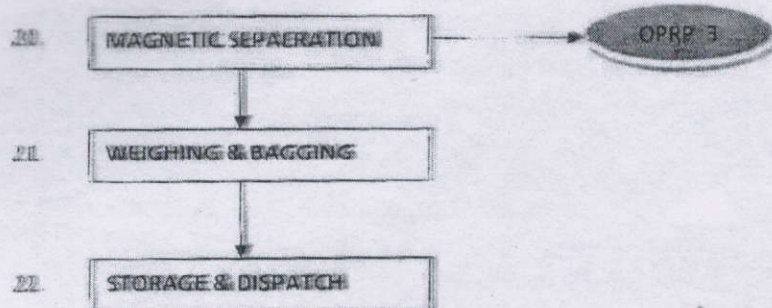
	TRIVENI ENGINEERING & INDUSTRIES LTD	Annexure 'N' TEIL/SOP/MR/08
	HACCP	Issue No: 01
	PROCESS FLOW CHART	Page 2 of 3



Issued By:	Approved By:	Revision No:	Date of Issue
		00	01/10/2011



TRIVENI ENGINEERING & INDUSTRIES LTD	Annexure 'M'
HACCP	TEIL/SOP/MR/08
PROCESS FLOW CHART	Issue No: 01
	Page 3 of 3



Issued By :	Approved By :	Revision No :	Date of Issue
		00	01/10/2011





AGREEMENT

उत्तर प्रदेश UTTAR PRADESH

FH 340418

This Agreement is made on this day 01.02.2019 between M/s. TRIVENI ENGINEERING & INDUSTRIES LIMITED a Company incorporated under the companies Act 1913, having its registered Office at Deoband, Distt. Saharanpur (Uttar Pradesh), and Plant located at RaniNagal, PO Aliabad Pipli, Thakurdwara District Moradabad. (hereinafter called as "**FIRST PART**") which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees and assigns of the First Part.

AND

M/s Bharat Oil and Waste Management Ltd (BOWML), a Company registered under the Companies Act 1956, having its registered office at B-5(GF), East of Kailash, New Delhi - 110065 and its engineered common facility at Gata No. 672, Vill. Kumbi, NH-2, Ramabai Nagar, Kanpur(UP), duly authorized by the Uttar Pradesh Pollution Control Board and having another Facility at Mauza Mukimpur, Roorkee-Laksar Road, Roorkee-247664, (Uttarakhand), to treat, store and dispose of Hazardous Waste and/ or Bharat Oil Company (India) Registered (BOC) a partnership concern registered under the Partnership Act with its registered office at 169 Kailash Hills, New Delhi 110065, duly registered with Central Pollution Control Board, having its CHWTSDf at E-18, Site IV, Sahibabad Industrial Area, Ghaziabad, (UP), duly authorized by the UPPCB, under the Environment Protection Act 1986 (for short the 'Act') and the Hazardous & Other Waste (Management Transboundary Movement) Rules, 2016 and / or the E-Waste (Management) Rules 2016 (for short "The Rules") as amended from time to time, represented by its Director/Partner, as the case may be (hereinafter called as "**SECOND PART**" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees and assigns of the Second Part.

WHEREAS First Part is engaged in manufacturing of Sugar at its Plant located at RaniNagal, PO Aliabad Pipli, Thakurdwara District Moradabad and whereas during the said manufacturing process/ activities different types of wastes including Hazardous Waste are generated as per Annexure to this Agreement.

For Bharat Oil & Waste Management Ltd.

Ramang Rai
Director



AND WHEREAS the First Part desires that the Hazardous Waste being generated at its production unit mentioned above, to be lifted, transported, treated, stored and disposed of, by utilizing the services of SECOND PART, as per the Pollution Control Board Authorization, list of Hazardous Wastes and their tentative quantity is enclosed herewith marked as Annexure.

AND WHEREAS the SECOND PART has represented and assured to First Part that it's Facility in Kanpur/Roorkee/Sahibabad is duly authorized by the concerned State Pollution Control Board and further capable of handling the Hazardous Waste generated at the First Part's premises.

AND WHEREAS First Part has agreed to avail the services of Second Part for treating the Hazardous Wastes, in its above named facility/facilities.

Now, therefore, those present witnessed and it is hereby declared and agreed by and between the Parties as follows:-

FIRST PART will pay an amount of Rs. 15,000/- (Rs. Fifteen Thousand Only) plus Applicable GST(18%) to SECOND PART towards Non-refundable Lifetime Membership Deposit which will be applicable for lifetime from the date of signing of this Agreement and membership can be renewed per year without any extra charge.

1. The scope of services to be provided by Second Part is limited to lift, transport through authorized vehicles, treat, store and dispose of Hazardous Waste of First Part as per the guidelines prescribed by Pollution Control Board or First Part can also send HW to SECOND Part's Plant directly at its own cost.
2. Second Part, on receipt of written information from FIRST PART, will plan and schedule lifting logistics of the Hazardous Wastes from the premises of FIRST PART within 3(Three) business days of receipt of such information. First Part shall ensure that Hazardous Wastes must be packed in proper & leak proof Bags or polythene Bags or containers for safe transportation.
3. SECOND PART shall at all times comply with all the provisions of Hazardous & Other Wastes (Management Transboundary Movement) Rules, 2016 as amended from time to time framed by MoEF/CPCB.
4. SECOND PART shall indemnify and keep indemnified FIRST PART from all losses, damages, and third party claims after taking out HW from the premises of the First Part, in cases of non-compliance of statutory norms on the part of SECOND PART.
5. FIRST PART shall keep ready the Hazardous Waste as per the mandate given to SECOND PART for collection, as it is a common facility catering to diverse wastes. SECOND PART shall follow Ministry of Environment & Forest, Central Pollution Control Board and State Pollution Board guidelines, future amendments and latest disposal technologies.

6. FIRST PART shall ensure that the above Hazardous Waste must be packed in proper containers/bags so as to prevent any damage/spillage of the material, during transit to SECOND PART factory. Containers/Bags arranged by FIRST PART shall be of Metallic/PVC/Leak proof Bags and kept at the storage place under cover. Container/Bags weight will also be added in the weight of the material.
7. FIRST PART will provide labour and special Material Handling Equipments at its own cost to lift and load the containers at the FIRST PART premises, in the vehicles for the transportation.
8. FIRST PART has mandatory obligations to provide the entire process detail which leads to generation of Hazardous Waste and its tentative Quantity per month or year to SECOND PART for the purpose of determining the waste characteristics and to decide parameters for comprehensive analysis and process for disposal. However, it is specifically agreed between the parties that the process details provided by FIRST PART shall be kept confidential and Second Part shall not disclose it to any third party without the First Part's prior written consent. This clause shall survive termination for a period of 1 (One) year after the determination of this Agreement for any reason whatsoever.
9. FIRST PART shall provide comprehensive Laboratory Analysis Report from a CPCB approved Laboratory of each type of Hazardous Waste for Finger Print Analysis. In the event there are differences in the analysis results; FIRST PART may send its samples to a mutually agreed THIRD PARTY at their own cost. New Comprehensive Analysis Reports shall be provided by FIRST PART when there is a change in the Hazardous Waste characteristics, manufacturing process or change in the product mix etc. Reports must be provided to SECOND PART prior to scheduling pick-up of Hazardous Waste. Reports shall be sent via Electronic mail as well as by courier/speed post to SECOND PART.
10. The comprehensive Analysis Report shall determine the disposal Pathway based on the Waste Characteristics and as per Waste Acceptance Criteria given to the FIRST PART and any other condition/solution that would help in safe disposal of Hazardous Waste. Disposal Pathway is mutually agreed between FIRST PART and SECOND PART to finalize the disposal base or basic USER CHARGES. The base User Charges are defined in Annexure to this Agreement.
11. FIRST PART will maintain and provide details of the HW as per the provisions in various Forms prescribed in the Rules. These Forms can be provided by SECOND PART at cost or be printed by FIRST PART as per the formats given by the SECOND PART.
12. If FIRST PART provides any false information/declarations or withholds information in relation to the provisions of Hazardous Waste rules and / or E-Waste rules any time during the term of this Agreement, all charges of Hazardous Waste during transportation, handling, treatment and disposal including post-disposal period shall remain vested at the responsibility of FIRST PART.

13. The charges for collection, treatment, storage, and disposal facility (hereinafter called as User Charges) will be applicable to FIRST PART/SECOND PART as per Annexure.
14. FIRST PART shall make payment for Waste management Services to SECOND PART and vice-versa per User Charges and other terms and conditions as per payment terms outlined in Annexure.
15. FIRST PART is responsible to segregate/store/accumulate/fill/load the Hazardous Waste in the container provided by FIRST PART in a neat and proper manner and so also, the container area should be accessible to SECOND PART's vehicle, to come and lift the Waste. The Transporter/SECOND PART reserves the right to reject lifting of Hazardous Waste spilled over the ground and container whose exteriors are soiled by Hazardous Waste spillage due to leakage.
16. In case, for any reason, the SECOND PART's Vehicle is sent back without giving the Hazardous Waste even after being requisitioned by FIRST PART, FIRST PART will have to pay actual transport charges to SECOND PART, for a minimum load of 11 (One) MT.
17. First Part shall at all times comply with all the provisions of the Acts and Rules from time to time in force and the Guidelines issued from time to time regarding handling of Waste involving the collection, storage, transportation and delivery thereof, and shall, without prejudice to the generality of the foregoing, also comply with all Environmental Protection Laws, Safety Laws and Regulations from time to time in force and the Rules, Regulations and Notifications made or issued thereunder from time to time. In the event of First Part committing any breach of the terms of this clause of Agreement, FIRST PART shall indemnify and keep indemnified SECOND PART from and against all claims, payments, costs and actions of whatsoever nature brought against or sustained or incurred by SECOND PART arising from or as a result of such breach committed by FIRST PART in that behalf, provided these are proved.
18. Each PART shall indemnify and keep indemnified the other PART at all times from and against all actions, suits, proceedings, claims, third party claims, costs, payments and expenses of whatsoever nature made or suffered or incurred by the other PART whether by reason of or by virtue of non-performance or non-observance or non-compliance by either PART, of any terms and conditions of this Agreement or of the relevant Act, the Rules and the Guidelines.

IT IS FURTHER HEREBY AGREED BY AND BETWEEN THE PARTIES AS UNDER:-

19. This Agreement is valid for a period of 5yrs. (from 2019 to 2023) and can be renewed thereafter on similar or revised terms and conditions as may be mutually agreed between the parties.
20. FIRST PART shall use the services of the SECOND PART during the period of this contract to dispose generated hazardous waste at agreed prices, while the agreement is in force. SECOND PART must legally and safely collect, transport, treat, dispose hazardous waste from FIRST PART during the agreed period per rates agreed while this Agreement is in force and payments made as per Agreement terms.

21. If all the terms and conditions as per the clauses of this Agreement are adhered to by FIRST PART, it will be SECOND PART's responsibility to lift, transport, treat and dispose of the Hazardous Wastes generated by FIRST PART in accordance with prevailing Govt. Rules and FIRST PART shall not have any liability whatsoever in this regard.
22. The main mode of final disposal of HW shall be Incineration/Land-filling and ash would be cemented and landfilled. The modes of disposal are dependent on the Hazardous Wastes' characteristics and FIRST PART shall not have any liability whatsoever in this regard.
23. The User Charges are subject to Annual Revision on the basis of Govt. of India Wholesale Price Index [WPI], (Commodities Index-All India) and once a quarter in the event of escalation of fuel costs and on major price escalations, escalation of fuel costs viz., Power Tariff, change in Disposal Technologies/Method, Wage Hike etc., to name a few. For the purpose of escalation in fuel cost, 30% of freight rate will be considered as fuel element of the cost.
24. SECOND PART reserves the right to cancel this Agreement if FIRST PART fails/refuses to pay the bills/dues as per the payment terms applicable to FIRST PART as mentioned herein and in Annexure A. A Notice period of maximum Fifteen (15) days will be allowed from the date of lifting of material. If FIRST PART fails to pay in settlement of the Invoice, it shall be liable to pay interest @ 18% per annum and this may also result in cancellation of First Part's Membership, forfeiture of deposit, and termination of this Agreement. Repeated defaults and violation of payment terms will also result in cancellation of Membership and forfeiture of Membership deposit.
25. Hazardous Wastes that require other alternate destruction technologies shall be handled at SECOND PART's facility. However, the prices for such treatment techniques shall be determined on a case-to-case basis on their characteristics.
26. Notwithstanding anything contained herein, neither Part hereto shall be liable for damages or have this Agreement terminated for any delay or default in the performance of such Part hereunder if such delay or default in performance derives from conditions beyond the reasonable control of such Part, including but not limited to, acts of God, fires, floods, extreme drought, riots, work stoppages, embargoes, governmental actions or damage to the plant or facility or any cause unavoidable or beyond the control of either part including any arbitrary ruling by the Government prohibiting the handling of the Waste or continuing domestic or international problems such as wars or natural calamities.
27. This Agreement shall be deemed to represent the entire Agreement between the parties hereto regarding the subject matter hereof and shall supersede, cancel and replace all prior agreements or arrangements, if any, in this behalf, signed/entered into by and between the parties hereto.
28. This Agreement is on principal to principal basis and nothing contained herein shall be deemed to constitute a partnership, joint venture or agency by and between the parties hereto.
29. This Agreement may be modified or amended only by writing, duly executed by or on behalf of the parties hereto.
30. Any terms and conditions of this Agreement may be waived at any time by the party that is entitled to the benefit thereof. Such waiver must be in writing and must be executed by an authorized officer of such party. A waiver on one occasion will not be deemed to be a waiver of a similar occasion or any other similar breach or non-fulfillment on a future occasion.
31. If any provision of this Agreement is held to be illegal, invalid or unenforceable under any present or future laws, such provisions shall be deemed terminable and the remaining parts and provisions of this Agreement shall remain in full force and effect.
32. Either Part shall have the right to terminate this Agreement upon giving 30 days written notice to the other Part with a reasonable cause.

For Bharat Oil & Waste Management Ltd.



33. It is clearly and expressly understood by and between the parties that the activity of lifting, transportation, treatment, storage and disposal of Hazardous Wastes is an independent contract and it does not come within the purview of the FIRST PART's manufacturing and selling activities. It is also clearly understood and confirmed by and between the parties that this contract is for performance of work and not for supply of Labour.
34. Nothing contained in these terms and conditions shall be construed as creating any relationship either direct or indirect of employer and employee between the FIRST PART and the persons engaged by SECOND PART. The FIRST PART shall have no liability towards such persons and such persons will not have any claim whatsoever against the FIRST PART for salary, wages, provident fund, gratuity, retrenchment compensation or any other compensation for accident or death or any other claim whatsoever.
35. Any dispute arising on any clause or clauses of this Agreement and the contents of the Annexure hereto between FIRST PART and SECOND PART shall be referred to an Arbitrator of repute by SECOND PART. The Arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 with amendments thereof. The arbitration proceedings shall be conducted in English and shall take place at New Delhi, India. The arbitral award, including interim awards, if any, shall be final and binding upon both parties.
36. Subject to the provisions of the foregoing clause, FIRST PART and SECOND PART mutually agree that the courts of Delhi alone, to the exclusion of any other, shall have the jurisdiction.
37. SECOND PART will lift and dispose waste from FIRST PART only if FIRST PART has valid & active legal authorization/consent to generate waste and operate the specified unit by relevant SPCB. First Part states that it is authorized to generate Hazardous Waste vide UPPCB/UEPPCB approval no. F65535/C-7/HAZ/Auth/137/2015 Dated 05.08.2015 valid till 04.08.2020 (Copy attached), and has valid unexpired Consent to Operate under Air/Water Act No. 1103 & 1104 /UPPCB/MBD. Dated 01.01.2018 valid till 31.12.2019 (Copy attached). The actual operation of collection/ Transportation/Storage/Treatment/Disposal of Hazardous Waste from First Part will start only after receiving the copy of valid approval of Air/Water/HW Consents from First Part. First Part will notify promptly in 30 days to SECOND PART if it has been ordered closure by relevant state pollution control board or any court of jurisdiction over it and that during the term of this agreement.

This Agreement is signed on this: 01.02.2019 at RaniNagal, PO Aliaabad Pipli, Thakurdwara District Moradabad.

For M/s. TRIVENI ENGINEERING & INDUSTRIES LIMITED For Bharat Oil & Waste Management Ltd.
FOR TRIVENI ENGINEERING & INDUSTRIES LTD. For Bharat Oil & Waste Management Ltd.
 Unit - Rani Nagal, Thakurdwara (Moradabad) Director/Partner Srinagani
 V. Venkatarathnam (Naresh Mangani)/B. Mangani
 Chief General Manager Chief General Manager Director

Witnesses:

1. Manish Srivastava
 D.G.M. (production)
 (Mobile: 9690020220)

2. Sanjay Chaudhary

2. Sandeep Kumar (9717700119)

Annexure-IX

FORM 10
[See rule 19 (1)]

Occupier's Copy

MANIFEST FOR HAZARDOUS AND OTHER WASTE

S.No.: 56232

1 Occupier's Name & Mailing Address (including Phone No. and email)	Sri Engineering & Ind. Ltd. Unit Raminangal		
2 Sender's Authorization No.	00047		
3 Manifest Document No.	12/21		
4 Transporter's Name & Address (including Phone No. and email)	Party - Self		
5 Type of Vehicle	(Truck / Tanker / Special Vehicle)		
6 Transporter's Registration	UP21AN 9908		
7 Vehicle Registration No.	UP21AN 9908		
8 Receiver's Name & Mailing Address (including Phone No. and email)	(I) BHARAT OIL COMPANY (I) REGD. E-18, Site-IV, Sahibabad Industrial Area, Ghaziabad, UP-201010 Tel.: 0120-4167924, e-mail:sales@bharatoll.com		
(II) BHARAT OIL & WASTE MANAGEMENT LTD. Mauza Mukimpur, Roorkee-Lakshar Road, Roorkee - 247664 UK, Tel.: 08874207664 e-mail:sales@bharatoll.com	(III) BHARAT OIL & WASTE MANAGEMENT LTD. Plot # 672, Sikandra Road, NH-2, Kumbhi Village, Tehsil Akbarpur, Kanpur Dehat, UP, Tel.: 0512-2285296 e-mail:sales@bharatoll.com		
9 Receiver's Authorization No.	(I) 1486/UPPCB/Ghaziabad/UPPCBRO/HWM/GHAZIABAD/2018 Valid upto: 03/05/2023		
(ii) UEPCCB/HO/Con-B-84/2018/548 Valid upto: 31/03/2023	(iii) 1403/UPPCB/KanpurDehat/UPPCBRO/HWM/KANPUR DEHAT/2018 Valid upto: 30/04/2023		
10 Waste Description	Used oil mixed Grease		
11 Total Quantity No. of Containers	122.5 Kg m ³ or MT Nos.		
12 Physical Form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)		
13 Special Handling Instructions & Additional Information	Do not throw Drums from truck. In case of leakage/seepage, use Washing soap at point of leak to stop its leakage.		
14 SENDER'S CERTIFICATE	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed, marked, and labeled, and are in all respects in proper condition for transport by road		
Typed Name & Stamp : Signature :	Month	Day	Year
Sri Engineering & Ind. Ltd. Unit Raminangal Pipri, Theundwara (Mauza)	12	07	2021
15 Transporter Acknowledgement of Receipt of Waste	Month	Day	Year
Typed Name & Stamp : Signature :	12	07	2021
16 Receiver's Certificate for Receipt of Hazardous and other Waste	Month	Day	Year
Typed Name & Stamp : Signature :	12	07	2021

FORM 10

[See rule 19 (1)]

Occupier's Copy


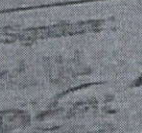
MANIFEST FOR HAZARDOUS AND OTHER WASTE

S.No.:

57009

1 Occupier's Name & Mailing Address (including Phone No. and email)	Triveni Engineering & Ind. Ltd. (Sugar Unit Raninagar)		
2 Sender's Authorization No.	Alinagar Dist. Tehsil, Ghaziabad		
3 Manifest Document No.	00048, 5/5/1/22		
4 Transporter's Name & Address (including Phone No. and email)	Party - Self		
5 Type of Vehicle	(Truck / Tanker / Special Vehicle)		
6 Transporter's Registration			
7 Vehicle Registration No.			
8 Receiver's Name & Mailing Address (including Phone No. and email)	(I) BHARAT OIL COMPANY (I) REGD. E-18, Site-IV, Sahibabad Industrial Area, Ghaziabad, UP-201010 Tel.: 0120-4187924, e-mail:sales@bharatoil.com		
(II) BHARAT OIL & WASTE MANAGEMENT LTD. Mauza Mukimpur, Roorkee-Lakshar Road, Roorkee - 247664 UK, Tel.: 08874207664 e-mail:sales@bharatoil.com	(III) BHARAT OIL & WASTE MANAGEMENT LTD. Plot # 672, Sikandra Road, NH-2, Kumbhi Village, Tehsil Akbarpur, Kanpur Dehat, UP, Tel.: 0512-2285296 e-mail:sales@bharatoil.com		
9 Receiver's Authorization No.	(I) 1486/UPPCB/Ghaziabad(UPPCBRO)/HWM/GHAZIABAD/2018 Valid upto: 03/05/2023		
(ii) UEPPCB/HO/Con-B-84/2018/548 Valid upto: 31/03/2023	(iii) 1403/UPPCB/KanpurDehat(UPPCBRO)/HWM/KANPUR DEHAT/2018 Valid upto: 30/04/2023		
10 Waste Description	Used oil mix grease/oily sludge		
11 Total Quantity No. of Containers	401.7 Kg m ³ or MT Nos.		
12 Physical Form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)		
13 Special Handling Instructions & Additional Information	Do not throw Drums from truck. In case of leakage/seepage, use Washing soap at point of leak to stop its leakage.		
14 SENDER'S CERTIFICATE	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed, marked, and labeled, and are in all respects in proper condition for transport by road		
Typed Name & Stamp : Triveni Engineering & Ind. Ltd. (Sugar Unit Raninagar) Alinagar Pipli, Thakurdwara (Ghaziabad)	Signature : Month Day Year 01 05 20 22		
15 Transporter Acknowledgement of Receipt of Waste	Month Day Year 01 05 20 22		
Typed Name & Stamp : Signature :	Month Day Year 01 06 20 22		
16 Receiver's Certificate for Receipt of Hazardous and other Waste	Month Day Year 01 06 20 22		
Typed Name & Stamp : Signature :			

Manifest for Hazardous and Other Waste

FORM 10 Dec 2010 10/10		MANIFEST FOR HAZARDOUS AND OTHER WASTE		S.No.	
1 Shipper's Name & Mailing Address (including Phone No. and email)		00049, D2 26/3/12			
2 Sender's Authorization No.		Party - Self			
3 Manifest Document No.		UP21AN9907			
4 Transporter's Name & Address (including Phone No. and email)					
5 Type of Vehicle		ERARAT OIL COMPANY (P) LTD			
6 Transporter's Registration		E-15 Sakinagar Industrial Estate Chennai-600 076 Tel: 044-26123456 e-mail: info@eraratoil.com			
7 Vehicle Registration No.		ERARAT OIL & WASTE MANAGEMENT LTD.			
8 Receiver's Name & Mailing Address (including Phone No. and email)		Plot 21072, Sakinagar Road, N-2, Kumbhari Village, Tehsil, Adyar, Chennai District, TN, Pin: 600 026 e-mail: info@eraratoil.com			
9 Receiver's Authorization No.		(1) Receipt of Hazardous Waste from Shipper (2) Receipt of Hazardous Waste from Receiver			
10 Waste Description		(1) Waste Description: 2000 kg, 2000 kg 460.1 kg 4.25 kg 585 kg m ³ or ltr lbs			
11 Total Quantity No. of Containers		(Solid) Semi-Solid Sludge (Liquor) Temp (Solid/Liquid) Do not throw down from truck in case of leakage leakage, use cleaning soap at point of leak to stop its			
12 Physical Form		I hereby declare that the contents of the consignment are fully and accurately described above in proper shipping name and are properly packed, marked, and labeled, and are in all respects in proper condition for transport by road			
13 Special Handling Instructions & Additional Information		14 SENDER'S CERTIFICATE Typed Name & Stamp:  Date: 26/3/12			
15 Transporter Acknowledgement of Receipt of Waste		Month: 03 Day: 26 Year: 2012 Month: 03 Day: 26 Year: 2012			
16 Receiver's Certificate for Receipt of Hazardous and Other Waste		Month: 03 Day: 26 Year: 2012 Month: 03 Day: 26 Year: 2012			

Annexure-X

FORM - 4

(See rules 5(6) and 22(2))

FORM FOR FILING ANNUAL RETURNS BY THE OCCUPIER OR OPERATOR OF A FACILITY

(To be submitted by occupier/operator of disposal facility to State Pollution Control Board/ Pollution Control Committee by 30th June of every year for the preceding period April 2020 to March 2021)

1.	Name and address of the generator/operator of facility	Sh. V. Venkataradhnam, Triveni engg & Ind Ltd Sugar Unit - Kanimangal, Mandadbad 344401			
2.	Name of the authorized person and full address with telephone and fax number	Sh. Manish Srivastava, Triveni engg & Ind Ltd Sugar Unit - Kanimangal, Mandadbad 344401 Mobile - 9606020220			
3.	Description of hazardous waste	Physical form with description	Chemical form		
		Mixture of waste oil & grease with water (Spent Solvent)	Oil & grease		
4.	Consented quantity of product/other	Sugar - 100 T/day			
5.	Manufactured quantity of product/other	Sugar - 588 T/day			
6.	Quantity of hazardous wastes (in MTA)	Type of hazardous waste as per Authorization	Quantity (in KL or MT)		
		(a) Oil & grease	Authorized	Generated	
		(b)	1.3 T/Annum	1.15 T/Annum	
		(c)			
		(d)			
7.	Description of Storage	Collected in 50 kg drum			
8.	Description of Treatment	Sent to M/s Bharat Oil & Waste management Ltd, Kanpur			
9.	Details transportation	Name & address of consignee	Mode of packing	Mode of transportation	Quantity
		Bharat Oil & Waste management Ltd.	Plastic Container	Mini Truck	15.12.20 320 kg
					29.01.21 438 kg
					17.02.21 150 kg
					13.05.21 222 kg
10.	Details of disposal of hazardous waste	Name & address of consignee	Mode of packing	Mode of transportation	Quantity
				Same as above	



Annexure-XI

Triveni ENGINEERING & INDUSTRIES LTD

Village- Rani Nangal, Post-Aliabad Pipli-244 401 Tehsil-Thakurdwara, District-Moradabad (UP)
Mobile: 9690020220 Tel: +91-591-3011306, Fax: +91-591-3011307

Date: 22.12.2021

DECLARATION

We, at Triveni Engineering & Industries Ltd, Sugar Unit- Raninanagal, distribute the Fly Ash generated from our Boilers to the local farmers at no cost. The Press Mud is also distributed to our local farmers at a nominal cost. The Press Mud as well as the Fly Ash is used as manure to enhance the fertility of the fields.

For Triveni Engineering & Industries Limited

V. Venkataranga
Authorized Signatory





FORM I

(Sec rule 7 of the E (P) Rules, 1986)

Notice of intention to have sample analyzed

To,

M/S Triveni Engineering & Industries Ltd. Sagar Unit
Ranwar, Moradabad (U.P.)

Take this notice that it is intended to have analyzed the samples of Effluent Treatment Plant

(ETP) & ETP 4 Spray Pond which has been taken today, the 10th day of 07/04/2022 from M/S Triveni Engineering & Industries Ltd.
Moradabad (U.P.)

(Name and designation of the person who takes the sample). Dr. R.K. Singh

1. Sh. Manish Srivastava, S.M (P)

2.

Locations of the place where the sample were taken.

1. Mill house effluent
2. ETP inlet
3. SRS inlet
4. ETP outlet
5. AT-I
6. AT-II
7. CP-2
8. Handpump near bailing house
9. Bore well - II

10. Lagoon
11. CP-I
12. SRS outlet

(Duplicate samples were given to the unit)



Signature: Dr. R.K. Singh
Name: Dr. R.K. Singh
Designation: Scientist - D