

IN THE HON'BLE NATIONAL GREEN TRIBUNAL

PRINCIPAL BENCH, NEW DELHI.

OA No.212/2020

IN THE MATTER OF :

Chaudhary Ompal&Ors.

....Applicant

Versus

State of Haryana

....Respondent

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Joint Report of the District Magistrate, Yamunanagar and the Regional Officer, Haryana State Pollution Control Board Yamunanagar in compliance of Orders dated 01.12.2020

MOST RESPECTFULLY SHOWETH

1. The Hon'ble NGT vide orders dated 01.12.2020 (Annexure-R1) passed the following directions:-

"2. In view of above, the State PCB and the District Magistrate, Yamunanagar need to take appropriate action after ascertaining the facts and following due process of law. The nodal agency for coordination and compliance will be the State PCB."

That the grievance of the complainant/petitioner is about the discharge of the Ditch Drain carrying waste water of District Yamuna Nagar into River Yamuna via Dhanaura Escape and hence causing the contamination of underground water nearby to the complainant village Dabkoli Kalan in District Karnal and the wholesomeness of water in River Yamuna. The complainant also

raised the issue regarding discharge of effluent in Dhanaura Escape from a distillery unit i.e. M/s RSL Distilleries Private Limited located at Village Chandrao, Tehsil- Indri, District Karnal.

2. That regarding discharge of effluent from a distillery unit i.e. M/s RSL Distilleries Private Limited located at Village Chandrao, Tehsil- Indri, District Karnal (under jurisdiction of Karnal Regional Office), it has been informed that recently a joint inspection of the said unit was conducted on dated 13.02.2021 by the CPCB team and unit was found operating on the production capacity of 113 KLPD against installed capacity of 120 KLPD and found operating on Zero Liquid Discharge (ZLD) and no observation regarding discharge outside the premises of the unit into Dhanaura Escape during inspection. The inspection report of CPCB is enclosed as per **Annexure-R2**.
3. That it has been stated in complaint that the sewage treatment plant at Hamidi is lying abandoned and non operational. It is submitted that complainant is referring the old structure 25 MLD STP which already have been abandoned by the Public Health Engineering Department (PHED) and in place of that presently 02 nos. newly constructed and commissioned STP's of capacity 25 MLD & 20 MLD are operational.

That the total installed capacity of the operational 06 no. STPs in District Yamuna Nagar is 85.5 MLD and 01 no. STP of 10 MLD capacity is under construction with estimated date of commissioning as 31.07.2021. These STP's are installed and

maintained by Public Health Engineering Department (PHED) and details of these STP's is submitted as under:-

Sr. No.	Capacity & Address of STP	Discharge Standards achieved (mg/ltr)	Remarks
1	25 MLD STP, at Radaur Road, Yamuna Nagar	pH 5.5-9.0 BOD-10 COD-50 TSS- 20 Total Nitrogen -10	Operational and achieving the discharge standards.
2	20 MLD STP at Radaur Road, Yamuna Nagar.	---do--	---do--
3	24 MLD at Parwaloo, Jagadhari	---do--	---do--
4	3 MLD STP at Chhachhrauli	---do--	---do--
5	3.5 MLD STP at Radaur, Yamuna Nagar	---do--	---do--
6	10 MLD STP at Baddi Majra, Yamuna Nagar.	---do--	---do--
7	10 MLD STP, Unit-2, Badi Majra	Under construction	Estimated date of commissioning is 31.07.2021.

That out of 06 nos. operational STP's, the treated discharge from 03 nos. STP's i.e. 25 MLD & 20 MLD STP's at Radaur Road, Yamuna Nagar and 3.5 MLD STP at Radaur, Yamuna Nagar is disposed of through Ditch Drain which is finally reaching River Yamuna through Dhanaura Escape.

Apart from domestic sewage effluent, the treated trade effluent from 03 major industries i.e. M/s Ballarpur Industries Limited, M/s Saraswati Sugar Mills Ltd., Radaur Road, Yamuna Nagar & M/s Blue Craft Agro (P) Ltd., Radaur Road, Tehsil Jagadhri, Yamuna

Nagar is also being discharged in Ditch Drain. The total discharge from these 03 industrial units is approx. 18 MLD.

4. That for survey and estimation of untreated discharge from District Yamuna Nagar reaching ditch drain, a team comprising the officers of PHED, Municipal Corporation, Yamuna Nagar and HSPCB have surveyed and quantified the discharge of untreated effluent falling into ditch drain. It was found that the discharge from 03 Nallahs (Drains) i.e. (1) Radaur road nallah passing nearby Jammu colony, (2) Nallah at Radaur Road, near Jorian Gurudwara (3) Nallah at Hamida Head, were the sources where from the untreated discharge directly reaches ditch drain. The discharge at these points has been measured on the basis of Weighted Average Method continuously for 5 days at three different times of a day as described below:-

Name of Nallah/Drain	Peak Hour Flow (MLD)	Normal Hour Flow (MLD)	Non peak flow
Radaur road Nallah passing Jammu colony	58.41	45.41	17.35
Nallah at Radaur Road near Jorian Gurudwara	22.43	17.38	4.30
Nallah at Hamida Head	3.66	3.26	2.87
Total	84.50	66.05	24.52

That the average daily discharge comes out to be approx. 66 MLD from these three sources and falling into Ditch Drain which in turn reaches River Yamuna through Dhanaura Escape. This 66 MLD

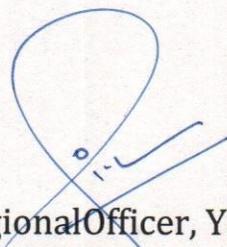
discharge from 03 no. Nallah/Drain as mentioned above is yet to be diverted/treated/tapped by the concerned authorities i.e. Municipal Corporation, Yamuna Nagar.

The HSPCB has asked for action plan from the Municipal Corporation, Yamuna Nagar. The latter vide letter memo no. 229 dated 03.06.2021 has submitted proposal/recommendation to the ACS, Urban Local Bodies Department for installation of 75 MLD STP at Radaur Road, Yamuna Nagar. The copy of the proposal/recommendation of Municipal Corporation, Yamuna Nagar is enclosed as per **Annexure-R/3**.

The report is submitted for kind consideration please. It is undertaken to comply with the directions passed by Hon'ble Tribunal.



Deputy Commissioner
YamunaNagar



Regional Officer, YamunaNagar
Haryana State Pollution Control Board

Place : Yamuna Nagar
Date : 10.06.2021

Item No. 16

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 212/2020

Chaudhary Ompal & Ors.

Applicant(s)

Versus

State of Haryana

Respondent

Date of hearing: 01.12.2020

**CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE SHEO KUMAR SINGH, JUDICIAL MEMBER
HON'BLE DR. SATYAWAN SINGH GARBYAL, EXPERT MEMBER
HON'BLE DR. NAGIN NANDA, EXPERT MEMBER**

ORDER

1. Grievance in this application is against discharge of untreated industrial effluents at Village Hamidi, District Yamunanagar. The drain carrying the effluent is connected to Dhanaura Escape, Village Dabkoli, Indri, which finally joins Yamuna. The said discharge is contaminating the ground water. The foul smell is affecting the inhabitants and the public health. The chemical discharge is also affecting the cattle and the agriculture fields.

2. In view of above, the State PCB and the District Magistrate, Yamunanagar need to take appropriate action after ascertaining the facts and following due process of law. The nodal agency for coordination and compliance will be the State PCB.

3. A factual and action taken report may be furnished to this Tribunal within two months by e-mail at judicial-ngt@gov.in preferably in

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the form of searchable PDF/ OCR Support PDF and not in the form of Image PDF.

List for further consideration on 04.03.2021.

A copy of this order, along with a copy of the complaint, be forwarded to the State PCB and the District Magistrate, Yamunanagar by e-mail for compliance.

Adarsh Kumar Goel, CP

S.K. Singh, JM

Dr. S.S. Garbyal, EM

Dr. Nagin Nanda, EM

December 01, 2020
Original Application No. 212/2020
SN

	INDUSTRY INSPECTION REPORT (DISTILLERY-GRAIN BASED)
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Date of Inspection: - 13.02.2021

1. General Information

1.	Unit Code	Y- 1506	
2.	a) Name and Address of the unit	RSL Distilleries Private Limited, Village Chandrao, Hadbast 10, Indri, Karnal.	
	b) Coordinates (Latitude & Longitude) in Decimal	Latitude: - 29.92530069 Longitude:- 77.16215477	
	c) Name of the recipient drain	ZLD Unit	
	d) Mode to reach River Ganga (Name of drain → Name of Sub-tributary → Name of Tributary → River Ganga)	Yamuna River Approx. 50 Km.	
3.	Operational Status (Operational/Non-Operational)*	Operational	
4.	Inspection Team	Designation	Contact No & e- mail
	1. Mr. Avinash Deshmukh	Technical Officer	Mob. No. 9623031108 E-mail:- deshmukh.avinash38@gmail.com
	2. Nitin U Harkar	Research Assistance	Mob. No. 9730343582 E-mail: nitinharkar55@gmail.com
	3. Mr. Shailendra Arora	Regional Officer, HSPCB	Mob. No. 8397835119
5.	Name of Occupier/Contact Person	Designation	Contact No & e- mail
	1. Ajay Inder Majithia	Vice President	Mob. No.9815900950 E-mail:- ajaymajithia@ranagroup.com
	2. Arjun Sharma	General Manger	Mob. No 7082301201 E-mail:- arjun@rsldistillery.com

	3. Vikas Awasthi	Asst. Manager (Environment)	Mob. No.9996306582
6.	Type of Distillery unit (need to put hyperlink on yes)	A. Molasses based distillery B. Grain based distillery C. Brewery unit D. Bottling unit	No Yes No Yes

* Note: If non-operational, specify the reason and attach respective document i.e., CPCB/SPCB closure direction

B. GRAIN BASED DISTILLERY

1.	Year of Commissioning	2016 - 2017		
2.	Standalone/Connected with sugar unit	Grain Based Distillery with Bottling Plant		
3.	Status of consents and authorization*		Yes/No/Expired/Applied	Validity Date
		Environmental Clearance (EC)	Yes	Issue date 30 th Mar 2012 <i>Refer Annexure-I</i>
		Air Consent	Yes	1 st Oct. 2019 to 30 th Sep. 2021 <i>Refer Annexure-II</i>
		Water Consent	Yes	1 st Oct 2019 to 30 th Sep 2021 <i>Refer Annexure-II</i>
		Haz. Waste Authorization	Yes	1 st Oct 2019 to 30 th Sep 2021 <i>Refer Annexure-III</i>
		CGWA NOC	Applied for the renewal dated 6 Dec 2019	<i>Refer Annexure-IV</i>

*Attach copy of EC, consents and CGWA NOC, if valid.

If unit has applied for renewal, then submit copy of application.

2. Fresh water consumption details

1.	Water Supply Source	From two Tube wells
2.	River	NA
	Flow meter with totalizer installed at line carrying freshwater (Yes/No)	Yes Turbine Type flow meter is installed on common line of Both Bore well
	Instantaneous Reading (m ³ /hr)	NA
	Totalizer Reading (m ³)	479450
3.	Bore well/ Tube well	
	No. of Tube well as per CGWA NOC	Two no. of Tube well
	Actual no. of Bore well found on site	Two no. of Tube well
	Permitted withdrawal quantity	1380 m ³ / Day
	Actual withdrawal quantity (Average of last three months)	1074 KLD

	No. of Borewell having flow meter with totalizer installed	Turbine Type flow meter is installed on common line of Both Bore well		
	Instantaneous Reading* (m ³ /hr)	Not Applicable		
	Totalizer Reading during visit* (m ³)	Initial	478410 m ³	
		Final	479450 m ³	
4.	Type of flow meter installed: mechanical/digital/electromagnetic etc.	Mechanical Flow Meter with Totalizer		
	Calibration details	Calibrated- <i>Refer Annexure-VIII</i>		
	Log Book Maintained (Yes/No)	Yes- <i>Refer Annexure-V</i>		
5.	Fresh water consumption			
		Production process	Domestic	Others
	Freshwater consumption (KL) (average of last three months)	1055 m ³ /day	19 m ³ /day	NA
	Overall (in KLD & KL/MT of product)	8.79	0.158	NA
	On the day of visit (KLD)	1040 m ³ /day	19 m ³ /day	NA

*If more than one water source, then take reading separately

3. Manufacturing Process, Spent Wash (SW) & Thin Slope Management System

1.	Manufacturing Process (Provide line diagram) (Milling → liquefaction → Fermentation → Distillation)	Milling → liquefaction → Fermentation → Distillation		
	Type of Fermentation technology adopted	Batch Fermentation System		
	Type of Distillation technology adopted	Multi pressure Distillation		
	Integrated MEE with Distillation (Yes/No)	Integrated MEE		
2.	Spent Wash & Thin Stillage/Slope Management Technology	Decanter/Centrifuge (for spent wash) <input checked="" type="checkbox"/>	CPU <input checked="" type="checkbox"/>	
		MEE (for thin stillage/slop) <input checked="" type="checkbox"/>		
	Spent Wash & Thin Stillage/Slope Management Sequence	Decantation → IMEE → DWGS		
3.	Licensed capacity of Distillery (KLPD/Bulk litres per annum)	120 KLPD		
	Installed capacity	120 KLPD		
	Present Production in KLPD	113 KLPD		
	No of operating days/year	330		

	Products Manufacture (for which period??)	ENA/RS <i>Reefer Annexure-VI for production details for the months of Nov., Dec.,2020 and Jan., Feb., 2021</i>
	RS	Yes
	ENA	Yes
	Absolute Alcohol/Ethanol	No (KLPD)
4.	Type of Grain used	Broken Rice
	Grain (in Qtls) per KL of alcohol production	22.2

*Distiller's Wet Grain Soluble (DWGS)

4. Waste water generation

Sr. No.	Stream/section	Quantity, KLD	Disposal/Utilization Point
1.	Spent Wash	638	Decanter--- IMEE-- DWGS
2.	Thin Stillage/Slop	518	MEE
3.	Thick syrup from MEE (MEE concentrate)	52	Mixed with DWGS wet cake
4.	MEE condensate	346	CPU
5.	Fermenter washing	10	CPU
6.	Floor washing	5	CPU
7.	Cooling tower blow down	10	CPU
8.	Boiler blow down	10	CPU
9.	DM plant reject	131	Slurry
10.	Others (Softener plant)	5	CPU
11.	Spent wash generation (KL/KL of production)	6.0	
12.	Quantity of Thin stillage/slop generation (from decanter/centrifuge) (KL/KL of production)	5	
13.	Quantity of Thick syrup from MEE (MEE concentrate) generation (KL/KL of production)	0.46	
14.	Total quantity of spent wash feed into Bio-digester/RO/MEE (unit?)	NA	
15.	Total quantity of other effluent feed into CPU (unit?)	40	

5. Centrifuge/Decanter for Spent wash from Distillation– Yes

1.	Unit has installed Centrifuge or Decanter?	Decanter
2.	Setting cum cooling tank before Centrifuge/Decanter (Yes/No)	Yes
	Capacity of Setting cum cooling tank before Centrifuge/Decanter (m ³)	Capacity not provided

3.	Year of installation/establishment & commissioning of the Centrifuge/Decanter	2016 - 2017	
4.	No. of Centrifuge/Decanter	Total 4 no of decanters (1+1+1+1)	
	Capacity of Centrifuge/Decanter	Four decanter 20 m ³ each	
5.	Hydraulic Retention Time on Design basis (in days) (15-24 days)	NA	
	Organic Loading Rate (kg/m ³ /day)	NA	
	Volume (m ³)	NA	
6.	No. of days of operation of Centrifuge/Decanter (days/annum)	330	
	Maintaining Log Book records supporting Centrifuge/Decanter plant performance (Yes /No)	Yes But only receding operational and non-operational Reefer Annexure-VII	
7.	Flow meter details	Installed (Magnetic Flow meter with totalizers)	
	Flow meter installed at inlet of Centrifuge/Decanter (Raw spent wash from distillation) (Yes/No)	Installed (Magnetic Flow meter totalizers)	
	Flow meter installed at outlet of Centrifuge/Decanter(Thin stillage/slop generation line) (Yes/No)	No	
		Initial Reading	Final Reading
	Flow meter reading at Inlet	1021401 m ³	1022071 m ³
	Flow meter reading at Outlet	Flow meter not installed	
8.	Quantity of Wet cake/DWGS generation from Centrifuge/Decanter (MT/ per day)	120 MT/ per day	
	Method of disposal/ utilization of Wet cake/DWGS (in DDGS* dryer/directly used as cattle feed)	Utilized as cattle feed	
9.	Quantity of Thin stillage/Slop generation from Centrifuge/Decanter (KLD)	518 MT (2.16 MT Per Hours)	
10.	Method of disposal/ utilization of Thin stillage/Slop (to MEE/others)	Fed MEE inlet	

*Distillery Dries Grain Soluble (DDGS)

6. Multiple Effective Evaporator (MEE) for Thin stillage/slop from decanter/centrifuges

1.	Setting cum cooling tank before MEE (Yes/No)	Yes
	Capacity of Setting tank before MEE (m ³)	15 KL
2.	Year of installation/establishment & commissioning of MEE plant	2016 - 2017

3.	Number of Effects with their HTA and MOC. (Mention number of stand-by bodies and degasser provided, if any)	6 (4 FF +2 FC), MOC SS-304 HTA 2200 SQM	
	Type of technology of MEE	Integrated MEE	
	Designed capacity of MEE (m ³ /day)	432	
	Evaporation rate of MEE (%)	396	
4.	Acceptable level of suspended solids, dissolved solids etc. in the feed.	3.0 (0.8 SS, 2.2 DS)	
5.	Maintaining Log Book supporting MEE plant performance (Yes/No)	Yes	
6.	Mass flow meter with totalizer installed at inlet of MEE (Yes/No)	Yes (Magnetic flow meter with totalizer is installed)	
	Mass flow meter with totalizer installed at outlet of MEE, MEE concentrate (Yes/No)	Yes (Magnetic flow meter with totalizer is installed)	
	Mass flow meter with totalizer installed at outlet of MEE, MEE condensate (Yes/No)	Yes (Magnetic flow meter with totalizer is installed)	
		Initial*	Final
7.	Mass flow meter reading with totalizer at inlet of MEE	1021566 m ³	1022084 m ³
	Mass flow meter reading with totalizer with outlet of MEE, MEE concentrate	48373 m ³	48431 m ³
	Mass flow meter reading with totalizer with outlet of MEE, MEE condensate	552543 m ³	553033 m ³
8.	Mass flow meter with totalizer connected with CPCB/SPCB server at time of inspection (Yes/No)	Yes but magnetic flow meters are installed	

*Provide for one day.

6.1. MEE operational details

1.	MEE feed rate (actual)	Litre./hr	29478	Sp. Gr.- (1.022)
2.	Feed rate @ Sp. Gr.(Approximate)	Kg/hr	30126	
3.	Solid content in feed/brix	%/ degree	5.46	
4.	Water evaporation rate (Minimum)	Kg/hr	24473	
5.	Concentrate Generation	Kg/hr	5652	
6.	Solid content in concentrate Generation /brix	%/degree	31.89	
7.	Operation hour and whether it is operating continuously	Hr/day-or week or month	Continuous	
8.	MEE Feed Characteristics	pH TSS TDS BOD & COD	4.2 16260 ml/g 29256 ml/g 7982 ml/g 32680 ml/g	
9.	Frequency of Cleaning In Process (CIP)	Hr/day or week or month	Two Time in a Month	
10.	Quantity of CIP effluent	m ³ /hr	15 per CIP	
11.	Quantity of process condensate	m ³ /hr	16.3	
12.	Whether MEE achieving design efficiency. (Yes/No)	Yes For MEE plant logbook <i>Refer Annexure-XVII</i>		
13.	Utilisation of MEE condensate	In Cooling Tower After CPU		

14.	Utilisation of MEE concentrate/ thick syrup	Mixed with DWGS
15.	Utilization of blow down (cooling tower & boiler)	CPU
<i>Refer Annexure-IX for analysis report</i>		

6.2. MEE output Characteristics

Sr. No.	Particulars	Conc. spent wash	Process Condensate
1.	Quantity, m ³ /day	58	393
2.	pH	4.47	4.30
3.	Temperature, °C	70	40
4.	COD, ppm	48050	1780
5.	Total solids, %	31.89	0.0278
6.	Ammonical Nitrogen (as N), ppm	NA	NA
7.	TDS, ppm	34578	190
8.	TSS, ppm	16389	63
9.	Volatile Acids, ppm	5123	1471
10.	Ammonia ppm	1688	205.2
<i>Refer Annexure- IX for analysis report</i>			

7. Dryer for Distiller's Wet Grain Soluble (DWGS)/Wet cake from Decanter/Centrifuge

1.	Unit has installed Dryer for DWGS/Wet cake from Decanter/Centrifuge?	YES (SELF MADE)
2.	Setting cum cooling tank before Dryer (Yes/No)	NO
	Capacity of Setting cum cooling tank before Dryer (m ³)	NA
3.	Year of installation/establishment & commissioning of Dryer	2016-2017
4.	No. of Dryer	3
	Capacity of Dryer	NA
	Type of Dryer (Rotary Tube Bundle Dryer/Fluidized Bed Dryer)	ROTATRY TUBE BUNDLE
5.	Hydraulic Retention Time on Design basis (in days) (15-24 days)	NA
	Organic Loading Rate (kg/m ³ /day)	NA
	Volume (m ³)	NA
6.	No. of days of operation of Dryer (days/annum)	NA
	Maintaining Log Book records supporting Dryer Performance (Yes /No)	No Not in operations

7.	Quantity of MEE concentrate/thick syrup mixed with wet cake per day	NA
8.	Quantity of DDGS generation from Dryer (KLD)	NA
	Method of disposal/ utilization of DDGS from dryer (used as cattle feed/others)	NA

8. CPU (Condensate Polishing Unit) for MEE Condensate – Yes

1.	Year of installation/establishment & commissioning of CPU	2016 - 2017	
2.	Name of Plant/Technology supplier	Membrane India	
3.	Type of technology of CPU plant: Conventional /RO/Striper/Photo-oxidation/In house technology etc. (Mention details of unit processes with flow diagram)	Conventional <i>Refer Annexure-X</i>	
4.	Design capacity of CPU unit (m ³ /day)	1200	
5.	Actual capacity of CPU unit (m ³ /day)	1200	
6.	Sources of effluent coming into CPU	Source	Quantity (m ³ /day)
		1. MEE condensate	346
		2. Cooling Tower Blow down	10
		3. Floor Washing	5
		4. Fermentor Washing	10
		5. Boiler Blow Down	10
		6. Other (Softener Plant)	5
7.	Quantity coming into CPU per day (total)	386	
8.	Quantity of treated effluent from CPU utilized per day	386 m ³ /day	
9.	Recovery (%) and characteristics of treated water and its further utilization details	95%	
10.	Is there any reject generated from CPU (Yes/No)	No	
11.	Disposal point of reject from CPU (If yes)	NA	
12.	Total fresh water consumption after reuse of treated low strength effluents.	1040 KL	
13.	Log Book records supporting CPU performance (Yes/No)	Yes <i>Refer Annexure- XI for ETP logbook</i>	

8.1 CPU performance

Particulars	Mixed Influent	Treated Effluent
Quantity, m ³ /day	346	329
Colour	182	121
pH	6.05	7.20
Temperature, °C	52	35
BOD, ppm	312	31
COD, ppm	1360	240
Total solids, PPM	NA	NA
Total dissolved solids, PPM	551	336
Total suspended solids, PPM	153	75
Volatile acids, PPM	NA	NA
Total Alkalinity, PPM	NA	NA
Ammonia, PPM	64.8	3
<i>Refer Annexure- XII for analysis reports</i>		

9. Sample Collection Points

Sr. No.	Sampling Points	(Yes/No)
1.	Raw spent wash (feed to Decanter)	Yes
2.	Feed to MEE (Multi effect evaporator)/Thin stillage/slop from Decanter/Centrifuge	Yes
3.	MEE condensate	Yes
4.	MEE concentrate/Thick syrup	Yes
5.	CPU inlet	Yes
6.	Aeration tank at CPU	Yes
7.	CPU treated condensate	Yes
8.	STP inlet	Yes
9.	STP outlet	Yes
10.	Drain within or outside the premises	NA
11.	Bypass if any	NA
12.	Groundwater (Samples should be collected from hand pumps or borewells)	Yes

** Parameters to be analyzed for samples collected from locations 1 -8: pH, BOD, COD, TS, TSS, TDS, colour

*** Parameters to be analyzed for groundwater samples: General parameters (to be collected in 2 Lit. container with ice) like pH, Conductivity, Color, TDS, Total Hardness, Ca²⁺, Mg²⁺, Na⁺, K⁺, Cl⁻, F⁻, SO₄²⁻, PO₄-P, NO₃-N, COD, BOD, Carbonate, Bi-carbonate, Total Alkalinity, SAR, Boron, NH₃-N (500ml container with H₂SO₄ and ice), Heavy metals (500ml container with HNO₃ and ice) *Refer Annexure-XIII* for analysis report

10. Other Details

- Name and contact details of the vendor who has supplied and commissioned the on-line monitoring system. Online connectivity is not provided by the unit
- Problems faced in maintaining the continuity of on-line monitoring system. Yes
- Identification of recipient drains/rivulets and their u/s & d/s locations for monthly monitoring to ensure ZLD. No drain identified nearby distillery.
- Material and mass balance of your total grain based distillery plant operations including ETPs showing ZLD. Refer Annexure-XIV
- Also indicate how your grain based distillery unit is achieving steam and power balance. Not provided
- Environment Management Cell-Mo Ms and necessary documents. Refer Annexure-XV
- Water conservation measures taken report (rain water harvesting etc.). Yes
- Refer Annexure- XVIII for STP logbook and Analysis reports.
- Refer Annexure- XVI for Form-1.

⊛ Observations:

1. The unit has obtained all concern consents from the SPCB & MOEFF & CC.
2. At the day of inspection, unit is operational at its 94.16% installed capacity utilization.
3. The installed capacity of distillery unit is 120 KLPD for wash to ENA.
4. The unit has installed latest distillery technologies for production of ENA such as MPR distillation, IMEE, Conventional CPU, which helps in overall energy and water saving.
5. For the treatment and disposal of sent wash and for achieving 'ZLD' distillery unit has installed Decantation flowed by IMEE.
6. Distillery unit has installed conventional CPU for treatment of low strength effluent generated during the operation of 120 KLPD distillery. The treated effluent is being recycled.
7. The unit has also installed STP with having capacity of 10 KL to treat the domestic effluent and treated water is being used in gardening and plantation area in distillery premises.
8. All the ETP system installed in the distillery premises is in operations at its installed capacity and observed in working conditions.
9. The treated water from CPU is being 100% recycle in process or non-process applications such as makeup water for cooling tower, slurry preparations.
10. Distillery unit has installed only OCEMS at ETP in and it is not connected to SPCB/CPCB server.

11. The boiler stack is also installed and connected to SPCB/CPCB server.
12. Flow meter at ETP inlet is installed but flow meter with totalizer is not installed at ETP outlet
13. OCMS at ETP outlet is also not installed.
14. The unit has installed 3 number of ground water monitoring piezo well on the basis of ground water flow direction.
15. The 360° Camera is installed at ETP and connected to CPCB/SPCB server. All logbooks are maintained by the unit for the ETP.
16. The distillery unit has made arrangement for water harvesting system in the distillery premises.
17. The MEE concentrate is mixed with spent grain/wet cake /DWGS and sale as cattle feed.
18. Nearby distillery premises RCC pit of having capacity 25000 M³ approx. is observed. This RCC pit is observed dried at the day of inspection.
19. The unit has installed section wise energy meter & maintained the logbooks for the same.
20. The unit has installed the magnetic flowmeter with totalizer at integrated MEE inlet, outlet and process condensate. All logbooks are maintained by the unit at MEE, Decantation.
21. Total 4 no. of decanter having capacity 20 m³ each is installed. The magnetic flow meter with totalizer is installed at inlet of the Decanter.
22. The overall industry premises are maintained neat and cleaned and green belt is also developed by the unit across the industry premise.
23. ETP and STP lay out is designed well and maintained by the industry.
24. Industry have 2 nos. of Borewell in the distillery premises for ground water extraction for process application. A common flow meter is installed with totalizer reading only.
25. In the distillery premises one RCC lagoon is observed having approx. capacity of 5000 M³. It is observed that this logon is in use for storage of raw spent wash. **Refer Annexure-XVIX.**
26. Unit has installed one camera at main gate.
27. Unit has in-house laboratory for ETP analysis.

🔗 **Recommendations/Suggestion:**

1. Unit should establish on line connectivity for install OCEMS system at ETP with SPCB/CPCB server.
2. Unit should demolish RCC lagoon which wash observed nearby distillery of having capacity 25000 m³ approx.
3. accordingly, for ground water abstraction.

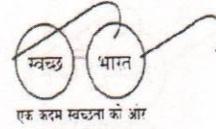
3. The unit should replace installed magnetic flowmeters with mass flow meters with totalizer at integrated MEE inlet, outlet and establish online connectivity to SPCB/CPCB servers.
4. Unit should maintain logbook for raw spent wash fed to decanters and also maintain logbook for thin slope fed to MEE and thick slope generated from MEE.
5. Unit should replace turbine type flow meter with digital type flow meter on each tube well and maintain the logbooks accordingly for ground water abstraction.
6. Unit should reduce the lagoon capacity for 5-day raw spent wash storage capacity on the basis of RSW generation @ 8 Lit/ Lit of alcohol production, and install PTZ camera at to cover lagoon.
7. Unit should maintain operating conditions as per standard in installed STP as analysis results of samples collected from STP shows results COD- 290 mg/l against standards of 250 mg/l, BOD-38 mg/l against standard of 30 mg/l TSS 105 mg/l against standard of 100 mg/l.

	Sr. No.	Name	Designation	Organization	Signature
Inspection Team	1	Avinash B. Deshmukh	Technical Officer	VSI, Pune	<i>B. Deshmukh</i> 30/03/2021
	2	Mr. Nitin U Harkar	R A	VSI, Pune	<i>N. Harkar</i> 30/03/2021
	3	Mr. Shailendra Arora	Regional Officer	HSPCB, Kanal, Haryana	



Municipal Corporation

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To

The Additional Chief Secretary to Govt of Haryana,
Urban Local Bodies department,
Chandigarh.

Memo No. 229

Dated:- 03/06/2021

Subject :- Proposal for installation of 75 MLD STP at Radour Road Yamunanagar in abondanded STP of Public Health Department in the limits of Municipal Corporation Yamunanagar-Jagadhri.

A meeting was held today i.e. 03/06/2021 under the Chairmanship of undersigned for compliance of the directions of Hon'ble NGT in case no 06/2012 Manoj Mishra Vs Union of India. It was decided that treatment of waste water of Nalas coming from Jagadhri, passing through Yamunanagar city, Nala coming from village Farakpur side and a Nala near Old Hamida Colony should be treated before falling in the WJC and river Yamuna as all these Nalas are falling through ditch drain in Western Jamuna Cannal and river Yamuna. Following members were present in the meeting:-

1. Superintending Engineer, Municipal Corporation Yamunanagar.
2. Regional Officer, Pollution Control Board, Yamunanagar.
3. Executive Engineer, PHED, Yamunanagar.
4. Sub-divisional Engineer, Pollution Control Board Yamunanagar.
5. Municipal Engineer, Municipal Corporation Yamunanagar-Jagadhri.

It is submitted that in the judistriction of Municipal Corporation Yamunanagar-Jagadhri presently five Nos STP of a total capacity of 79 MLD are functional. 10 MLD capacity STP will be commissioned in Jul 2021 of Baddimajra. The details of STPs are as under:-

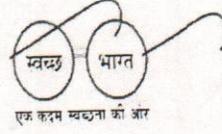
Sr. No.	Capacity & Location of STP
1	25 MLD STP, at Radaur Road, Yamuna Nagar.
2	20 MLD STP at Radaur Road, Yamuna Nagar.
3	24 MLD at Parwaloo, Jagadhari.
4	10 MLD STP at Baddi Majra, Yamuna Nagar.
5	10 MLD STP, Unit-2, Badimajra.

The discharge of Municipal Corporation Yamunanagar is through a major drain i.e. Ditch drain which finally meets in Dhanaura escape in District Karnal and finally meets in river Yamuna. For purpose of survey and estimation of untreated discharge from District Yamuna Nagar reaching to ditch drain, a team comprising Officers of from PHE Department, Yamunanagar, Municipal Corporation, Yamuna Nagar and HSPCB Yamunanagar has



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untreated discharge of 66 MLD flow towards this land and there is no additional cost involved for laying of sewer line and carrying the untreated waste water of above drains to the new proposed STP. Therefore it is proposed to construct additional STP of capacity 75 MLD in MC Yamunanagar on the said land of Public Health Engineering Department Yamunanagar and CM Announcement No. 20097 dated 24.09.2017 may be taken for this purposal.

Commissioner
Municipal Corporation,
Yamunanagar-Jagadhri.

Endst. No. 230

Dated :- 03/06/2021

A copy of the above is forwarded to the Director, Urban Local Bodies, Haryana, Panchkula for information and necessary action.

Commissioner
Municipal Corporation,
Yamunanagar-Jagadhri.