



उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
UTTAR PRADESH POLLUTION CONTROL BOARD

Ref. No. H.46835/सी-6/सहमति जल-2/ओओएन नं० 242/2019/2020

Dated - 24/1/2020

To,

The Registrar General,
Hon'ble, National Green Tribunal,
Principal Bench,
Faridkot House, Copernicus Marg,
New Delhi- 110001

Sub: Regarding submission of Compliance report of Hon'ble NGT, New Delhi order dated 06.01.2020 in O.A. no. 242/2019 Dr. Anil Kumar Pandey, Prakritik Sampada Sanrakshan Samiti, Gorakhpur V/s State of UP.

Sir,

Kindly refer the subject mentioned above. In compliance of order dated 06.01.2020 the compliance report is enclosed herewith for your kind perusal and further necessary action.

Enclosures: As above

Sincerely Yours,

(Dr. B.B. Awasthi)

Chief Environmental Officer
(Circle-6)

Copy to:

Shri Pradeep Misra Advocate, Supreme Court, B-235, Sector-XIX, Noida District-GB Nagar, 201301 for information and further necessary action.

Chief Environmental Officer
(Circle-6)

T.C/12V, Vibhuti Khand Gomti Nagar, Lucknow – 226010

Phone: 2720831, 2720828, 2720691 & 2720681 - Fax: 0522 – 2720764

Email: info@uppcb.com - Web Site: www.uppcb.com

Compliance report of order dated 06.01.2020 passed by Hon'ble NGT, New Delhi in OA no. 242/2019 Dr Anil Kumar Pandey, Prakritik Sampada Sanrakshan Samiti, Gorakhpur V/s State of UP.

The relevant portion of the Hon'ble NGT, New Delhi order in OA no. 242/2019 is as follows.

".....The report does not mention action taken for extraction of ground water without requisite permission. Mere application does not amount to permission....."

Let further action taken report be furnished before the next date by e-mail at judicial-ngt@gov.in.

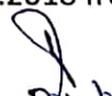
That it is submitted that the said order of Hon'ble NGT was received by the U.P. Pollution Control Board by E-mail sent by consultant judicial-NGT on dated 08.01.2020. Inspection of M/s Saraya Distillery Sardar Nagar, Gorakhpur, UP was made by Regional Officer, UPPCB, Gorakhpur on dated 08.01.2020. Inspection report is **annexed as annexure-01**. As per inspection report industry was found in operation.

Industry is a distillery unit and installed capacity of the unit is 110 KLD. The consented capacity of the unit is 55 KLD. Industry produces rectified sprit, ENA, country liquor, IMFL using molasses, yeast, urea, DAP as raw material and fusel oil generation take place as bye product. The source of water supply in the industry is ground water. Industry has installed 02 no. of Tube wells for abstracting the water from ground. Industry has obtained NOC from CGWA which is valid upto 17.07.2021.

In the industry water is used in the domestic as well as industrial purposes. Waste water generated from domestic purposes is treated into septic tank. Industrial effluent generated from the unit is disposed through ZLD system. The units of ZLD are Reverse Osmosis Plant, Multi Effect Evaporator & Bio Composting. The industry has installed CPU for less polluted effluent. The unit of CPU are Aeration Tank, Tube Settler, Multi Grade Filter, Nano Filtration Unit-1, Nano Filtration Unit-2, Reverse Osmosis Plant and Activated Carbon filter. The treated effluent by CPU is reused in process. The reject of Reverse Osmosis Plant is fed to multi effect evaporator. Unit has proved 32 Acres active area for bio compost. Out of 32 acres, 03 acres is covered area. Industry has installed PTZ camera in lagoon area as well as bio compost area and both cameras are connected with server of CPCB and UPPCB. The industry has installed an ETP for the treatment of spent lees. The treated spent lees is used the process.

That National Institute of Hydrology (NIH), Roorkee, collected ground water sample of 16 private shallow hand pumps, 02 samples from Indian Marka-2 hand pump and 04 samples from deep bore wells. National Institute of Hydrology (NIH), Roorkee found the quality of water as good drinking water and no any contamination in underground water has been found by drain. The industry has provided the ground water as well as surface water quality report which was collected by M/s Prakriti Consultants Services, Lucknow dated 16.11.2018 from following point:


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C-6


डा० अरुण अवरथी
मुख्य पर्यावरण अधिकारी
उ०प्र० प्रदूषण नियंत्रण बोर्ड

- a. Office Hand Pump.
- b. Hand Pump near PTZ camera
- c. Hand Pump near Lagoon
- d. Hand Pump near Poly House
- e. Hand Pump near Mirchawa Village
- f. Hand Pump near Shemford School
- g. Ground Water Tube Well

As per analysis report all the parameters are meeting the acceptable limits of BIS standard IS10500.00.2012. Surface water sample collected from Vayeshi drain is not meeting the standard as stipulated by Board. It is pertinent to mention here that Vayeshi drain is a natural drain and it carries domestic waste water discharge from Sardar Nagar which is situated in the upstream of the industry. Hence, industry may not be responsible for the quality of Vayeshi drain because at the time of inspection industry was not discharging industrial effluent into Vayeshi drain.

That, on the basis of joint inspection report the show cause notice under section 33A of Water (Prevention and Control of Pollution) Act, 1974 was issued by Board against the industry vide letter dated 16.10.2019. The industry replied in connection of show cause notice dated 16.10.2019 vide its letter dated 31.10.2019. The matter of show cause notice issued against industry is under consideration. The industry has applied consent for the year of 2020 & 2021 which is under consideration.

That National Institute of Hydrology (NIH), Roorkee, is an apex body of the country. NIH, Roorkee has under taken study of ground water near M/s Saraya Distillery Sardar Nagar, Gorakhpur. In the finding of study NIH has mentioned that any contamination in ground water is not directly related with industry ISO and OHSAS certified laboratory reports also reveals that underground water near M/s Saraya Distillery Sardar Nagar, Gorakhpur is not contaminated. Samples collected by joint inspection team of CPCB and UPPCB has been analysed in the laboratory of Zonal Directorate of CPCB which is not an apex body for ground water quality study. For taking any appropriate decision regarding ground water contamination around M/s Saraya Distillery Sardar Nagar, Gorakhpur it seems necessary that Central Ground Water Authority should collect the samples and analyse the same. As per analysis report of CGWA any decision regarding contamination of ground water around M/s Saraya Distillery Sardar Nagar, Gorakhpur seems adequate.


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C-6


24/11
डा० वी० बी० अवस्थी
मुख्य पर्यावरण अधिकारी
उ०प्र० प्रदूषण नियंत्रण बोर्ड
लखनऊ

प्रदूषण रोकिए !
ता - पर्यावरण
Gram : Paryavaran



क्षेत्रीय कार्यालय
उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
REGIONAL OFFICE

UTTAR PRADESH POLLUTION CONTROL BOARD

संदर्भ संख्या

Ref. No.

To,

2958 / A.O.-21 / 1111 / 2020

दिनांक

Dated

23-01-2020

Chief Environmental Officer (C-6),
U.P. Pollution Control Board,
Paryavaran Bhawan, TC-12V,
Vibhuti Khand, Gomti Nagar,
Lucknow.

Sub.:

Regarding order dated 06.01.2020 passed by Hon'ble N.G.T. in O.A. No. 242/2019 Dr. Anil Kumar Pandey, Prakritik Sampada Sanrakshan Samiti, Gorakhpur V/s State of U.P. and consent application of M/s Saraya Distillery, Sardar Nagar, Gorakhpur.

Sir,

Kindly refer the subject mentioned above. In the said context it is to inform you that as per your direction received to this office vide letter no. H45927/C-6/consent water/01/20, dated 06.01.2020 and letter No. H46080/C-6/water-01/Gkp/2020, dated 08.01.2020 inspection of M/s Saraya Distillery, Sardar Nagar, Gorakhpur was under taken by officials of this office on dated 13.01.2020 regarding Show Cause Notice issued under section 33A of Water (Prevention and Control of Pollution) Act, 1974, order passed by Hon'ble N.G.T. in O.A. No. 242/2019 on dated 06.01.2020 and consent verification. Inspection report along with recommendation is enclosed herewith along this letter for your perusal and further necessary action.

Enclosures : As above

Your's Faithfully

(Pankaj Yadav)

Regional Officer

cc
2/1/01

Inspection Report of M/s Saraya Distillery, Sardar Nagar, Gorakhpur (U.P.)

In compliance of H.O., Lucknow Letter No. H45927/C-6/consent water/01/20 dated. 06.01.2020 and Letter No. H4680/C-6/Jal-01/Gkp/2020 dated. 08.01.2020, inspection of industry was under taken on dated 13.01.2020. At the time of inspection industry was found operational and Mr. Gurumukh Singh, General Manager was present as representative of the industry. The salient details and observations are as below.

1	Name and Address of the unit	M/s Saraya Distillery, Sardar Nagar, Gorakhpur
2	Name of the Contact Person - Designation & Mobile No.	Shri Gurumukh Singh General Manager, 9935596234
3	Sector	Private
4	Installed Capacity	110 KLD
5	Consented Capacity	55 KLD
6	Product	Rectified Spirit, ENA, Country Liquor, IMFL
7	By Product	Fusel Oil
8	Raw Materials	Molasses, Yeast, Urea, DAP
9	Manufacturing Process	Molasses Dilution, Culture Propagation, Seeding in fermenter, Fermentation, Distillation, Rectification, Maturation, Blending & Bottling
10	Present Production	45-50 KLD
11	Year of Commissioning	1951
12	Consent Status	Applied for renewal of Consent Air & Water
13	Water Supply Source	Ground water through Bore Well
14	No. of Bore Wells	02 nos, Capacity 60-70 m ³ /hr., H.P.- 20 and 50
15	Status of CGWA NOC	Valid up to 17.07.2021
16	Permission for Ground Water Abstraction from CGWA	1337 M ³ /day
17	Status of Electromagnetic Flow Meter for tube well	Installed
18	Status of Logbook of fresh water abstraction	Maintained

Waste Water Generation (KLD) based on one month observation

	Stream/section	Quantity (m ³ /day)	Disposal/utilization
1	Spent wash generation	450-475 approx	Bio Gas Digester
2	Spent Lees	415 approx	Approx 340 m ³ is being recycled into plant for distillation and balance fed to WWTD
3	Fermenter washing	15-17 approx	Feed to distillation column
4	Process Condensate	85-90 approx	Used in boiler
5	Floor washing	N.A.	N.A.
6	Cooling Tower blow down	19-24 approx	Fed to MEE
7	Boiler blow down	9-11 approx	Ash quenching/wet scrubbing
8	D.M. Plant Reject	240-254 approx	CPU

Bio Methanation Plant Performance

1	Settling cum cooling tank capacity	800 m ³
2	Settling cum cooling tank Retention time	1-2 day
3	Hydraulic retention time of digester	26 day
4	Organic Loading	5-6 kg/m ³ /day
5	Type of Technology	Continuous stirred tank reactor
6	Restabilization method and period required	Low feed of spent wash is given along with micro organisms and nutrients
7	Method of maintaining digester during idling days	Stored spent wash is fed at low rate

8	Method of maintenance of temperature	By feed temperature
9	Designed rate of bio gas generation at 100% capacity utilization	20,000 m ³ /day
10	Disposal of sludge generated from digester	Used in bio compost
11	Status of Logbook for bio gas plant performance	Maintained
Information regarding Multi Effect Evaporator (MEE)		
1	Year of installation of MEE Plant	Oct. 2016
2	Type of Technology	Combination of falling film and forced circulation
3	No. of effects with their HTA	8 effects with 2448.2 m ²
4	Material of Construction	SS- 304
5	Settling Tank Capacity	20,000 m ³
6	Status of Stand by bodies and Degasifier	Provided
7	Designed feed capacity and evaporation duty of MEE (m ³ /day)	600 m ³ /day with specific gravity of 1.060 and evaporation duties in 60% condensate and 40% syrup
8	Acceptable Limit of Suspended solid, dissolved solid etc. in the feed	Solid- 8.5%, COD- 42450 mg/ltr., BOD- 8510 mg/ltr., TDS- 34529 ppm., TSS- 7850 ppm, pH- 8.21
9	Frequency and duration of cleaning	8 hours after every fortnight
10	Status of supporting log book for plant performance	Maintained
11	Status of Rivers Osmosis Plant	Installed
Condensate Polishing Unit (CPU)		
1	Capacity	850-900 m ³ /day
2	Source of feed	MEE condensate and R.O. Reject
3	Quantity	300-350 m ³ /day MEE condensate and 250 m ³ /day R.O. Reject
4	Inlet Characteristics	pH- 8.0-8.3, Temperature- 30-35 °C, COD- 1500-2200
5	Outlet Characteristics	pH- 7.5-8.5, Temperature- 30-35 °C, COD- less than 100, TDS- 500-700,
6	Quantity utilization rate per day	80% used in process
7	Date of installation/commissioning	Oct. 2018
8	Name of Technology	Aerobic/ultrafiltration/nano/R.O.
9	Status of generation of reject & its disposal	Yes generated, Recycled in MEE
Bio Composting Area Details		
1	Active area for bio composting	32 acre
2	Area for press mud storage	3 acre
3	Storage facility for ready bio compost	Godown
4	Finished compost packing facility	Weighing Machine, Stitching Machine
5	Maturaty time in days for one cycle and total cycle in the year	45 days/cycle, 8 cycles/year
6	Raw spent wash storage capacity	800 m ³
7	Bio methanited spent wash storage capacity	20,000 m ³
8	MEE spent wash storage capacity	6,000 m ³ /day
9	Quantity of press mud required	44,637 MT
10	Utilization of spent wash/concentrated spent wash in bio composting	150-200 m ³
11	Ratio of press mud to spent wash	1 : 1.6
12	No. of windrows	48
13	Length of windrows	500 meter, 300 meter, 200 meter, 90 meter
14	Height of windrows	1.5 meter
15	Width of windrows	3.5 meter

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16	Distance between to windrows	3 meter
17	Equipments for bio composting	Aero-tillers- 01 JCB- 02 Tractor- 01 Loaders- 01
18	Status of registration from Agriculture Department for bio compost	Registered, Certificate No. 2895 dated 16.06.2016 valid up to 15.06.2019
19	Arrangement for bio composting in rainy season	Poly House in 3 acre area has been made and bio composting is done inside poly house area in rainy season
20	Status of PTZ Camera and its connectivity	PTZ Camera has been installed in lagoon area and bio compost area and has been connected to server of UPPCB and CPCB.

Observations :

1. At the time of inspection unit was found operational.
2. Unit has applied for renewal of consent air and water for the year 2020.
3. The installed capacity of the unit is 110 kl/d but consent was issued by Board for the production capacity of 55 kl/d.
4. At the time of inspection it was observed that unit has adopted measures for achieving ZLD in terms of spent wash. For achieving ZLD condition, spent was generated from process is firstly fed in to anaerobic digester. Outlet of anaerobic is fed to MEE where spent wash is concentrated. After concentration spent wash is used for bio composting. Condensate generated from MEE and other points is treated into CPU.
5. CPU consist of following units :-
 1. Aeration Tank (Equiped with diffused air blowing system and sprinkling system).
 2. Tube Settler
 3. Multi Grade Filter
 4. Nano Filtration Unit-1
 5. Nano Filtration Unit-2
 6. Reverse Osmosis Plant
 7. Activated Carbon Filter
5. R.O. permeate is used in process while R.O. reject is fed to MEE.
6. During inspection it was observed that unit has installed online mass flow meter at the inlet of MEE and in the condensate line. Both are connected with the server of CPCB.
7. Unit has provided 32 acres active area for bio compost. Out of 32 acres, 3 acres is covered area.
8. Unit has provided coverd area of 500 meter square for the storage of ready bio compost.
9. Unit is registered with directorate of agriculture (Fertilizer) for bio compost.
10. PTZ Camera has been installed in lagoon area as well as bio compost area and both camera are connected with server of CPCB and UPPCB.
11. Unit has installed a rice husk/bio gas fired boiler having steam generation capacity 22TPH. Continious online emission monitoring system has been installed at the stack of boiler and connected with server of CPCB. Stack attached to boiler having height 30 meter from ground level.
12. Trimaclone type dust collector and wet scrubber has been installed as APCS.
13. As generated from boiler is used for filling of low lying area.
14. Stack Monitoring was made by Regional Office on dated 08.01.2020 and concentration of particulate matter in the flue gas was measured 132.26 mg/Nm³ which is within the stipulated Norms of 150 mg/Nm³.

Sinh *Rail* *[Signature]*

15. Unit has installed an ETP for the treatment of spent lees. Capacity of ETP is 25 KLD. ETP comprises of following units:
 - 15.1. Collection Tank
 - 15.2. Fab- I
 - 15.3. Fab- II
 - 15.4. Tube Settler
 - 15.5. Clear Water Tank
 - 15.6. PSF & ACF
16. Following direction had been issued by CPCB vide letter No. B-172/PCI-III/2K 04-2 K-05/566 dated 05.07.2018 under section 5 of E(P) Act, 1986 against industry.

"The distillery is directed to close down all its manufacturing operations and not to restart manufacturing till it complies with following directions and obtains permission from CPCB." Compliance report was sent to H.O., Lucknow vide this office letter No. 1225/C-21/Jal-218, dated 06.08.2018. It is pertinent to mention here that production was closed by industry on dated 25.07.2018 in compliance of CPCB direction.
17. CPCB again allowed industry to resume production vide letter No. B-172/PCI-III/2K 04-2 K-05/1038 dated 27.02.2019. It is necessary to mention here that CPCB modified certain conditions imposed in letter dated 27.02.2019 vide letter No. B-172/PCI-III/2K 04-2 K-05/2051 dated 08.08.2019. As per modification CPCB removed the conditions of closure of production for 45 days in rainy season imposed in letter dated 27.02.2019.
18. Industry has been covered in O.A. No. 116/2014 Meera Shukla V/s Municipal Corporation, Gorakhpur and others. A complaint was received to Hon'ble N.G.T. Committee constituted by Hon'ble N.G.t. order dated 23.08.2018 in O.A. No. 116/2014 directed to CPCB and SPCB for jointly inspecting the unit and submitting the report. Joint Committee inspected unit on dated 20.09.2019 and made following recommendation in the inspection report.

"The unit may be asked for preparation and implementation of action plan for restoration of surrounding environment with respect to significant deficiencies reported above. Appropriate Environmental compensation may be imposed on polluter pay principle to the distillery unit".

Joint inspection report has been filed by Monitoring Committee in Hon'ble N.G.T. New Delhi.
19. On the basis of joint inspection report show cause notice under section 33A of Water (Prevention and Control of Pollution) Act, 1974 was issued by Board against industry vide letter No. H12582/C-6/consent water/245/19, dated 16.10.2019.
20. Industry replied in connection of show cause notice dated 16.10.2019 vide its letter dated 31.10.2019. Photo Copy of the reply sent by industry is enclosed as annexure-01 along with this report.
21. In the said reply letter of industry dated 31.10.2019, it had been mentioned that National Institute of Hydrology (NIH), Roorkee collected ground water sample of 16 private shallow hand pumps, 02 samples from Indian mark-II hand pump and 04 samples from deep bore wells and NIH found the quality of water as good as drinking water and no any contamination in under ground water has been found by them. In the said reply letter it has been also mentioned that N.I.H. Roorkee conducted detailed study in the month of December, 2015 and found that M/s Saraya Distillery is not responsible for any water contamination/pollution due to storage of spent wash in lagoon. In the reply letter it has been mentioned that in the report of N.I.H. it was found that hand pump installed adjacent to Railway Station, Sardar Nagar is not proper evidence. Based on analysis report of only one hand pump distillery unit can not be held responsible for under ground water pollution/contamination as all other hand pumps/deep bore wells are discharging good water from under ground in surrounding area near by distillery as well as bio composting area. Contamination in the quality of hand pump adjacent to Sardar Nagar Railway Station may be attributed due to many other reasons mentioned in NIH report.

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22. Industry has provided this office the Ground Water as well as surface water quality report to this office duly collected by an ISO 9001-2008 and OHSAS- 18001-2007 Certified Organisation M/s Prakriti Consultants Services, 12, Vishnupuri, Church Road, Aliganj, Lucknow. Representative of Organisation collected Ground Water Samples on dated 16.11.2018 from following points. :-
- Office Hand Pump
 - Hand Pump near PTZ camera
 - Hand Pump near Lagoon
 - Hand Pump near Poly House
 - Hand Pump near Mirchawa Village
 - Hand Pump near Shemford School
 - Ground Water Tube Well

As per analysis report provided by M/s Prakriti Consultants Services all the parameters are meeting the acceptable limits of BIS standard IS10500.00 2012.

Sample collected from recycling water pit is also meeting the acceptable limits of BIS standard IS10500.00 2012.

Surface water sample collected from Vayeshi drain is not meeting the standards as stipulated by Board in terms of BOD, COD and DO for discharge in surface water. In the samples BOD was found 60 mg/l., COD- 312 mg/l. and DO- 3.6 mg/l. It is pertinent to mention here that Vayeshi drain is a natural drain and it carries domestic waste water discharge from Sardar Nagar which is situated in the up stream of the industry, Hence, Industry may not be responsible for the water quality of Vayeshi drain because at the time of inspection industry was not discharging industrial effluent into Vayeshi drain. Copy of all the analysis reports is enclosed as annexure-02.

23. Environmental Compensation of Rs. 61,60,000.00 has been imposed by Board against industry vide letter No. H41375/C-7/nodal plastic-222/19, dated 23.09.2019. Status of deposition of E.C. by industry is not clear.

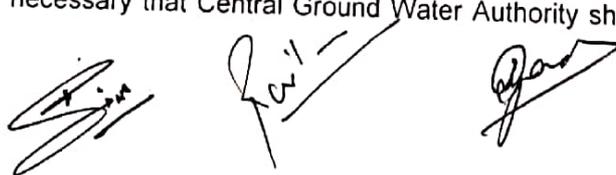
24. Hon'ble N.G.T. New Delhi passed following order on dated 06.01.2020 in O.A. No. 242/2019 Dr. Anil Kumar Pandey, Prakritik Sampada Sanrakshn Samiti, Gorakhpur V/s State of U.P.

"..... The report does not mention action taken for extraction of ground water without requisite permission. Mere application does not amount to permission. Let further action taken report be furnished before the next date by e-mail at judicial-ngt@gov.in. List again on 10.02.2020.....".

25. Industry has sent copy of NOC obtained from Central Ground Water Commission to this office. As per copy sent by industry, NOC has been issued by CGWA to industry vide letter No. CGWA/NOC/IND/ORIG/2019/5680 which is valid from 18.07.2019 to 17.07.2021. NOC has been issued for abstraction of 1337 m³/day ground water with the help of 02 no. of existing tube wells. Copy of the NOC issued by CGWA is annexed annexure-03.

26. Monitoring committee constituted vide order dated 23.08.2018 headed by Hon'ble Justice D.P. Singh (Retired) has recommended for imposing Environmental Compensation of Rs. 5,96,00,000.00 @ 50,000/day for 1192 days from 01.05.2016 to 05.08.2019. Compensation matter of the industry is to be decided Hon'ble N.G.T. Matter of the industry has been listed for hearing on dated 10.02.2020 in Hon'ble N.G.T.

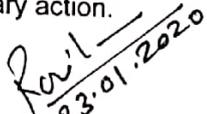
National Institute of Hydrology, Roorkee is an apex body of the country. N.I.H. Roorkee has under taken study of ground water near M/s Saraya Distillery, Sardar Nagar, Gorakhpur. In the finding of study N.I.H. has mentioned that any contamination in ground water is not directly related with industry. ISO and OHSAS Certified laboratory reports also reveals that under ground water near M/s Saraya Distillery is not contaminated. Samples collected by joint inspection team of CPCB and UPPCB has been analysed in the laboratory of zonal directorate of CPCB which is not an apex body for ground water quality study. For taking any appropriate decision regarding ground water contamination around M/s Saraya Distillery, Sardar Nagar, Gorakhpur it seems necessary that Central Ground Water Authority should collect the samples



and analyse the same. As per analysis report of CGWA any decision regarding contamination of ground water around M/s Saraya Distillery seems adequate.

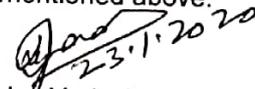
In light of the above said facts show casue notice issued by Board against industry under section 33A of Water (Prevention Control of Pollution) Act, 1974 may be cancelled. Since the matter of industry is listed on dated 10.02.2020 in Hon'ble N.G.T. New Delhi, hence, recommended for taking suitable decision regarding renewal of consent air and water of industry from competent Authority at H.O. level after obtaining legal opinion in the case from legal section. The above inspection report is submitted for your perusal and further necessary action.


(Dr. R.K. Singh)
L.A.


(Ram Milan Verma)
S.A.

Regional Officer

Forwarded for further necessary action as per recommendation mentioned above.


(Pankaj Yadav)
Regional Officer

CEO-6

31.10.2019

Chief Environment Officer (Circle-6)
U.P. Pollution Control Board
T.C./12V Vibhuti Khand
Gomti Nagar - Lucknow.
PIN-226 010

Sub: - Reply to Your Letter No. H-42522/C-6/Water Consent/245/19

Dear Sir,

This has reference to your kind notice / letter - H-42522/C-6/Water Consent/245/19 dated 16-10-2019 In the matter we are submitting our explanation as under, for your kind consideration please.

- 1) That due to heavy rain / storm in the month of July-2019 about 320 mm rain fall suddenly in four days. heavy water got accumulated surrounding the Bio-Compost area and around the empty space of windrows. In spite of our best efforts to take this rain water back into our lagoon, it overflowed in low lying area adjacent to Pucca poly lined lagoon. We have taken back the entire accumulated water to Pucca Lagoon for its re-processing in the process of Bio-Compost making.
- 2) That in spite of heavy rain / storm in the month of July, during CPCB inspection on 05.08.2019 there was no discharge found of any diluted / undiluted spent wash / effluent into VAISI NALA.
- 3) That due to flood situation in VAISI NALA, a large quantity of water was coming from village area in upstream catchment zone also, and the quality of this water is not in our Control.
- 4) We have conducted the analysis of ground water by MOEF approved Lab M/s Prakriti Consultants Services in the month of Nov. i.e. 16-11-2018 for MARCHAHAWA Village & For hand Pumps installed surrounding the Bio-Compost area. From analytical results, it is clear that water is fit for drinking purpose. Analysis report is attached as a reference.
- 5) That, We have installed 04 no. of Hand Pumps covering all the four corners of Bio-Composting Area. which are discharging good quality of drinking water and the samples of these hand pumps have already been approved by the National Institute of Hydrology Roorkee. The NIH has analyzed almost 22 water samples surrounding our Distillery (16 from private hand pumps, 02 from India Mark -II hand

pumps and 04 from Bore Wells) and found the quality of water is as good as drinking water and no any contamination in underground water has been found by them.

Also to mention that National Institute of Hydrology Roorkee, has conducted a detailed study in the month of Dec' 2015 and found that M/s Saraya Distillery is not responsible for any water contamination / pollution due to storage of spent wash in Lagoon (Page No.45 attached). Summary of NIH study is given hereunder:

The NIH Team collected 22 nos. samples of groundwater from various sources, each samples has been analyzed on 24 parameters such as color, pH, TDS, Hardness, Calcium, Magnesium, Chloride, BOD, COD, Zink and LED etc.. Based on the investigation and analysis report the conclusion are given as under-

- i. The analysis of data clearly indicated that concentrations of almost all the water quality constituents are comparable with the values observed at Control Sites and are well within the acceptable / permissible limits for drinking water.
- ii. The colour is one of the most important indicator parameter for assessment of ground water contamination due to past storage of Spent Wash in Kachcha Lagoons. The colour value in the ground water sample collected from the bore well installed at Kachcha Lagoon was well within the acceptable limit prescribed for drinking purpose.
- iii. The colour values in ground water samples collected from the adjoining areas of Kachcha Lagoon were also comparable with the color values observed at Control Sites.
- iv. The ground water of the study area, although recorded slightly higher concentration of iron at few sites, but these were also not abnormally high considering the high content of iron in Spent Wash. As such, there is no apparent contamination due to past storage of spent wash in Kachcha Lagoons.

Based on the ground water quality studies carried out in and around the surrounding areas of old Kachcha Lagoons of Saraya Distillery, it is observed that there is no apparent contamination due to past storage of spent wash in Kachcha Lagoons.

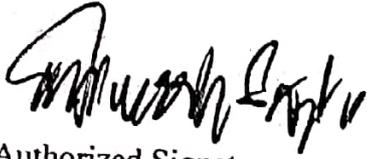
- 6) That Hand pump installed adjacent to Railway Station Sardar Nagar is not proper evidence. That based on this Analysis report (of one Hand Pump only) our Distillery cannot be held responsible for underground water pollution as all other Hand Pumps / Tube wells are discharging good water from underground in surrounding area nearby distillery as well as all the four corners of Bio-Composting area. Contamination in the quality of above Railway Station Hand Pump may be attributable to many other reasons as well including a large numbers of Railway Racks of Klinker and other chemicals being unloaded there at regular intervals.

7) That, M/s Saraya Distillery is following the rules & regulations of CPCB / UPPCB issued from time to time.

Under the above circumstances, your good self are requested to kindly stop the proceedings of any further action in the matter please.

Thanking You

For Saraya Distillery



Authorized Signatory

CC-

1. D.M.Gorakhpur
2. S.S.P. Gorakhur
3. S.E. U.P.P.C.L Gorakhpur.
4. Regional Officer Pollution Control Board, Gorakhpur, U.P.



Regional Office cum Laboratory
UTTAR PRADESH POLLUTION CONTROL BOARD
 Mahadev Jharkhandi, Avas Vikas Colony
 Deoria Road, Kunraghat, Gorakhpur- 273008

STACK EMISSION MONITORING REPORT

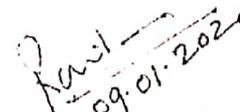
1.	Name and address of the Industry	M/s Saraya Distillery, Sardarnagar, Gorakhpur.
2.	Product of the industry with installed capacity	Rectified Spirit/Extra Neutral Alcohol -110 Kl/day
3.	Monitored by	Sri Ram Milan Verma, S.A & Sri Ayodhya Prasad, M.A.
4.	Date of monitoring	08.01.2020
5.	Stack Material	Mild Steel
6.	Height of the stack from ground level	30 meter approx.
7.	Source to which stack attached	Thermax make boiler-1No.
8.	Number of boiler attached with capacity	22T/hr-1No.
9.	Type and quantity of fuel used	75T/Day approx. Rice husk & 40000m ³ /Day approx. Biogas.
10.	Details of Air Pollution Control System (APCS) Installed	Trimmaclone type dust collector

PARAMETERS:

VALUES

1.	Ambient temperature (°C)	15
2.	Stack gas temperature (°C)	126
3.	Stack gas Velocity (m/sec.)	12.26
4.	Flow rate (L.P.M.) nozzle diameter 3/8inch used	
	(a) S.P.M.	40
	(b) Gas	-
5.	Sampling Time (Minutes)	
	(a) S.P.M.	30
	(b) Gas	-
6.	Volume of air sampled (Litre)	
	(a) S.P.M.	1200
	(b) Gas	-
7.	Concentration of Suspended Particulate IMatter (S.P.M.) emission in mg/Nm ³	132.26
8.	Concentration of Sulphur dioxide (SO ₂) emission in mg/Nm ³	-
9.	Others, if any	-

Remarks :- During Stack Emission Monitoring, Air Pollution Control System was found in operational.


 (Ram Milan Verma)
 S.A.


 (Pankaj Yadav)
 Regional Officer

Prakriti Consultants Services

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Tel: 0522- 4002545, Mobile: 09415518811



An Approved Laboratory from MoEF vide S.O. No. 1190 (E) dated 01/05/2014 and Valid up to 30/04/2019

Test Report for Ground Water Quality

Report No.	Reference No	Issue Date
PCS/GWQ/01/2018	PCS/SD/03/2018	16/11/2018
1. Name of Proponent:	M/s Saraya Distillery Sardarnagar , Ditt. Gorakhpur -273202 (U. P.)	
2. Type of Industry:	Distillery	
3. Sampling Location:	Near Biocompost Office hand Pump	
4. Sampling Done by:	Mr. Ajay Kumar & Mr. Shubham Pandey	
5. Weather Condition :	Clear Sky	
6. Method of sampling	As per standard Method	
7. Identification of Sample	Water Sample Collected 2 Lt. in Bottle	
8. Date of Sampling:	23/10/2018	
9. Sample Receipt in Lab:	24/10/2018	
10. Date of Testing:	25/10/2018 – 02/11/2018	

Sl. No.	Parameters	Unit	Reference Method*	Office Hand Pump	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1	Colour	Hazen	2120 B	Clear	5	15
2	Odour	-	2150 A	Odorless	Agreeable	Agreeable
3	pH	-	4500H ¹ - B	7.64	6.5 - 8.5	NR**
4	Turbidity	NTU	2130 B	0.6	1	5
5	Conductivity	µmhos/cm	2510 B	460	-	-
6	TDS	mg/l	2540-C	257.7	500	2000
7	Hardness as CaCO ₃	mg/l	2340 C	180	200	600
8	Alkalinity	mg/l	2320 B	132	200	600
9	Chloride as Cl	mg/l	4500-Cl,B	16.0	250	1000
10	Sulphate as SO ₄	mg/l	4500-SO ₄ -E	15.4	200	400
11	Fluoride	mg/l	4500-F,D	0.7	1.0	1.5
12	Calcium as Ca	mg/l	3500-Ca,-B	33.6	75	200
13	Magnesium as Mg	mg/l	3500-Mg,B	23.3	30	100
14	Sodium as Na	mg/l	3500-Na,B	19.0	-	-
15	Potassium as K	mg/l	3500-K,B	8.0	-	-
16	Copper as Cu	mg/l	3111-Cu, B	<0.003	0.05	1.5
17	Chromium as Cr	mg/l	3111-Cr, B	<0.002	0.05	NR**
18	Cadmium as Cd	mg/l	3111-Cd, B	<0.002	0.003	NR**
19	Iron as Fe	mg/l	3111-Fe,D	<0.007	0.3	NR**
20	Manganese as Mn	mg/l	3111-Mn,D	<0.002	0.1	0.3
21	Nickel as Ni	mg/l	3111-Ni, D	<0.004	0.02	NR**
22	Lead as Pb	mg/l	3111-Pb,B	<0.009	0.01	NR**
23	Zinc as Zn	mg/l	3111-Zn, D	<0.003	5	15
24	Mercury as Hg	mg/l	3112-Hg,B	BDL***	0.001	NR**
25	Arsenic as As	mg/l	3114-As,B	BDL***	0.1	0.5
26	Total coliforms	MPN/100ml	9221	Absent		Should be absent in any
27	Faecal coliforms	MPN/100ml	9221	Absent		100/ml sample

*As per APHA/AWWA, 23 rd Ed. ** NR= No relaxation, ***BDL=Below Detection Limit
Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

Dr Divya Misra
Managing Director

-----End of this Report-----

Page- 1 of 1

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An Approved Laboratory from MoEF vide S.O. No. 1190 (E) dated 01/05/2014 and Valid up to 30/04/2019

TEST REPORT FOR GROUND WATER QUALITY

Report No.	Reference No	Issue Date
PCS/GWQ/02/2018	PCS/SD/03/2018	16/11/2018
1. Name of Proponent:	M/s Saraya Distillery Sardarnagar , Distt. Gorakhpur -273202 (U. P.)	
2. Type of Industry:	Distillery	
3. Sampling Location:	Hand Pump Near Cemra	
4. Sampling Done by:	Mr. Ajay Kumar & Mr. Shubham Pandey	
5. Weather Condition :	Clear Sky	
6. Method of sampling	As per standard Method	
7. Identification of Sample	Water Sample Collected 2 Lt. in Bottle	
8. Date of Sampling:	23/10/2018	
9. Sample Receipt in Lab:	24/10/2018	
10. Date of Testing:	25/10/2018 – 02/11/2018	

Sl. No.	Parameters	Unit	Reference Method*	Hand Pump Near Cemra	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1	Colour	Hazen	2120 B	Clear	5	15
2	Odour	-	2150 A	Odorless	Agreeable	Agreeable
3	pH	-	4500H*- B	7.19	6.5 - 8.5	NR**
4	Turbidity	NTU	2130 B	0.8	1	5
5	Conductivity	µmhos/cm	2510 B	430	-	-
6	TDS	mg/l	2540-C	240.3	500	2000
7	Hardness as CaCO ₃	mg/l	2340 C	152	200	600
8	Alkalinity	mg/l	2320 B	92	200	600
9	Chloride as Cl	mg/l	4500-Cl,B	13.2	250	1000
10	Sulphate as SO ₄	mg/l	4500-SO ₄ -E	7.2	200	400
11	Fluoride	mg/l	4500-F,D	0.5	1.0	1.5
12	Calcium as Ca	mg/l	3500-Ca,-B	36.87	75	200
13	Magnesium as Mg	mg/l	3500-Mg,B	14.6	30	100
14	Sodium as Na	mg/l	3500-Na,B	12.0	-	-
15	Potassium as K	mg/l	3500-K,B	6.0	-	-
16	Copper as Cu	mg/l	3111-Cu, B	<0.003	0.05	1.5
17	Chromium as Cr	mg/l	3111-Cr, B	<0.004	0.05	NR**
18	Cadmium as Cd	mg/l	3111-Cd, B	<0.002	0.003	NR**
19	Iron as Fe	mg/l	3111-Fe,D	<0.006	0.3	NR**
20	Manganese as Mn	mg/l	3111-Mn,D	<0.003	0.1	0.3
21	Nickel as Ni	mg/l	3111-Ni, D	<0.005	0.02	NR**
22	Lead as Pb	mg/l	3111-Pb,B	<0.008	0.01	NR**
23	Zinc as Zn	mg/l	3111-Zn, D	<0.002	5	15
24	Mercury as Hg	mg/l	3112-Hg,B	BDL***	0.001	NR**
25	Arsenic as As	mg/l	3114-As,B	BDL***	0.1	0.5
26	Total coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	
27	Faecal coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	

*As per APHA/WHO 2001 Ed. ** NR: No relaxation, ***BDL: Below Detection Limit
*Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source (as up to the limits indicated under 'permissible' limit) in absence of alternative source where which the sources will have to be rejected

Dr Divya Misra

Dr Divya Misra
Managing Director

-----End of this Report-----

Page- 1 of 1

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- 13 -



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Test Report for Ground Water Quality

Report No.	Reference No	Issue Date
PCS/GWQ/03/2018	PCS/SD/03/2018	16/11/2018
1. Name of Proponent:	M/s Saraya Distillery Sardarnagar , Ditt. Gorakhpur -273202 (U. P.)	
2. Type of Industry:	Distillery	
3. Sampling Location:	Near Lagoon hand Pump	
4. Sampling Done by:	Mr. Ajay Kumar & Mr. Shubham Pandey	
5. Weather Condition :	Clear Sky	
6. Method of sampling	As per standard Method	
7. Identification of Sample	Water Sample Collected 2 Lt. in Bottle	
8. Date of Sampling:	23/10/2018	
9. Sample Receipt in Lab:	24/10/2018	
10. Date of Testing:	25/10/2018 – 02/11/2018	

Sl. No.	Parameters	Unit	Reference Method*	Lagoon hand Pump	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in absence of alternate source
1	Colour	Hazen	2120 B	Clear	5	15
2	Odour	-	2150 A	Odorless	Agrecable	Agrecable
3	pH	-	4500H+- B	7.97	6.5 - 8.5	NR**
4	Turbidity	NTU	2130 B	0.8	1	5
5	Conductivity	µmhos/cm	2510 B	410	-	-
6	TDS	mg/l	2540-C	226.9	500	2000
7	Hardness as CaCO ₃	mg/l	2340 C	156	200	600
8	Alkalinity	mg/l	2320 B	108	200	600
9	Chloride as Cl	mg/l	4500-Cl,B	20.0	250	1000
10	Sulphate as SO ₄	mg/l	4500-SO ₄ -E	7.9	200	400
11	Fluoride	mg/l	4500-F,D	0.4	1.0	1.5
12	Calcium as Ca	mg/l	3500-Ca,-B	35.2	75	200
13	Magnesium as Mg	mg/l	3500-Mg,B	16.5	30	100
14	Sodium as Na	mg/l	3500-Na,B	18.0	-	-
15	Potassium as K	mg/l	3500-K,B	7.0	-	-
16	Copper as Cu	mg/l	3111-Cu, B	<0.004	0.05	1.5
17	Chromium as Cr	mg/l	3111-Cr, B	<0.003	0.05	NR**
18	Cadmium as Cd	mg/l	3111-Cd, B	<0.001	0.003	NR**
19	Iron as Fe	mg/l	3111-Fe,D	<0.006	0.3	NR**
20	Manganese as Mn	mg/l	3111-Mn,D	<0.002	0.1	0.3
21	Nickel as Ni	mg/l	3111-Ni, D	<0.005	0.02	NR**
22	Lead as Pb	mg/l	3111-Pb,B	<0.01	0.01	NR**
23	Zinc as Zn	mg/l	3111-Zn, D	<0.008	5	15
24	Mercury as Hg	mg/l	3112-Hg,B	BDL***	0.001	NR**
25	Arsenic as As	mg/l	3114-As,B	BDL***	0.1	0.5
26	Total coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	
27	Faecal coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	

*As per APHA/AWWA: 23rd Ed. ** NR= No relaxation, ***BDL=Below Detection Limit
 Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

Dr Divya Misra

Dr Divya Misra
 Managing Director

-----End of this Report-----

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Test Report for Ground Water Quality

Report No.	Reference No	Issue Date
PCS/GWQ/04/2018	PCS/SD/03/2018	16/11/2018
1. Name of Proponent:	M/s Saraya Distillery Sardarnagar , Ditt. Gorakhpur -273202 (U. P.)	
2. Type of Industry:	Distillery	
3. Sampling Location:	Hand Pump Near Polly House	
4. Sampling Done by:	Mr. Ajay Kumar & Mr. Shubham Pandey	
5. Weather Condition :	Clear Sky	
6. Method of sampling	As per standard Method	
7. Identification of Sample	Water Sample Collected 2 Lt. in Bottle	
8. Date of Sampling:	23/10/2018	
9. Sample Receipt in Lab:	24/10/2018	
10. Date of Testing:	25/10/2018 - 02/11/2018	

Sl. No.	Parameters	Unit	Reference Method*	Hand Pump Near Polly House	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit the absence of alternate source
1	Colour	Hazen	2120 B	Clear	5	15
2	Odour	-	2150 A	Odorless	Agreeable	Agreeable
3	pH	-	4500H+- B	8.28	6.5 - 8.5	NR**
4	Turbidity	NTU	2130 B	0.5	-	5
5	Conductivity	µmhos/cm	2510 B	510	-	-
6	TDS	mg/l	2540-C	284	500	2000
7	Hardness as CaCO ₃	mg/l	2340 C	180	200	600
8	Alkalinity	mg/l	2320 B	124	200	600
9	Chloride as Cl	mg/l	4500-Cl,B	22.0	250	1000
10	Sulphate as SO ₄	mg/l	4500-SO ₄ -E	12.3	200	400
11	Fluoride	mg/l	4500-F,D	0.6	1.0	1.5
12	Calcium as Ca	mg/l	3500-Ca,-B	48.1	75	200
13	Magnesium as Mg	mg/l	3500-Mg,B	14.6	30	100
14	Sodium as Na	mg/l	3500-Na,B	23.0	-	-
15	Potassium as K	mg/l	3500-K,B	8.0	-	-
16	Copper as Cu	mg/l	3111-Cu, B	<0.002	0.05	1.5
17	Chromium as Cr	mg/l	3111-Cr, B	<0.005	0.05	NR**
18	Cadmium as Cd	mg/l	3111-Cd, B	<0.002	0.003	NR**
19	Iron as Fe	mg/l	3111-Fe,D	<0.006	0.3	NR**
20	Manganese as Mn	mg/l	3111-Mn,D	<0.007	0.1	0.3
21	Nickel as Ni	mg/l	3111-Ni, D	<0.004	0.02	NR**
22	Lead as Pb	mg/l	3111-Pb,B	<0.01	0.01	NR**
23	Zinc as Zn	mg/l	3111-Zn, D	<0.005	5	15
24	Mercury as Hg	mg/l	3112-Hg,B	BDL***	0.001	NR**
25	Arsenic as As	mg/l	3114-As,B	BDL***	0.1	0.5
26	Total coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	
27	Faecal coliforms	MPN/100ml	9221	Absent		

*As per APHA/AWWA, 21st Ed. ** NR= No relaxation, ***BDL=Below Detection Limit
Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

Dr Divya Misra
Dr Divya Misra
Managing Director

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-15-

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Test Report for Ground Water Quality

Report No.	Reference No	Issue Date
PCS/WQ/05/2018	PCS/SD/03/2018	16/11/2018
1. Name of Proponent:	M/s Saraya Distillery Sardarnagar , Ditt. Gorakhpur -273202 (U. P.)	
2. Type of Industry:	Distillery	
3. Sampling Location:	Hand Pump Near Mirchuwa Village	
4. Sampling Done by:	Mr. Ajay Kumar & Mr. Shubham Pandey	
5. Weather Condition :	Clear Sky	
6. Method of sampling	As per standard Method	
7. Identification of Sample	Water Sample Collected 2 Lt. in Bottle	
8. Date of Sampling:	23/10/2018	
9. Sample Receipt in Lab:	24/10/2018	
10. Date of Testing:	25/10/2018 – 02/11/2018	

Sl. No.	Parameters	Unit	Reference Method*	Hand Pump (Mirchuwa Village)	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in absence of alternative source
1	Colour	Hazen	2120 B	Clear	5	15
2	Odour	-	2150 A	Odorless	Agreeable	Agreeable
3	pH	-	4500H+- B	7.87	6.5 - 8.5	NR**
4	Turbidity	NTU	2130 B	0.8	1	5
5	Conductivity	µmhos/cm	2510 B	1320	-	-
6	TDS	mg/l	2540-C	739.8	500	2000
7	Hardness as CaCO ₃	mg/l	2340 C	472	200	600
8	Alkalinity	mg/l	2320 B	152	200	600
9	Chloride as Cl	mg/l	4500-Cl,B	20.0	250	1000
10	Sulphate as SO ₄	mg/l	4500-SO4-E	11.3	200	400
11	Fluoride	mg/l	4500-F,D	0.8	1.0	1.5
12	Calcium as Ca	mg/l	3500-Ca,-B	40.08	75	200
13	Magnesium as Mg	mg/l	3500-Mg,B	90.4	30	100
14	Sodium as Na	mg/l	3500-Na,B	26.0	-	-
15	Potassium as K	mg/l	3500-K,B	10.0	-	-
16	Copper as Cu	mg/l	3111-Cu, B	<0.005	0.05	1.5
17	Chromium as Cr	mg/l	3111-Cr, B	<0.008	0.05	NR**
18	Cadmium as Cd	mg/l	3111-Cd, B	<0.003	0.003	NR**
19	Iron as Fe	mg/l	3111-Fe,D	<0.01	0.3	NR**
20	Manganese as Mn	mg/l	3111-Mn,D	<0.005	0.1	0.3
21	Nickel as Ni	mg/l	3111-Ni, D	<0.008	0.02	NR**
22	Lead as Pb	mg/l	3111-Pb,B	<0.01	0.01	NR**
23	Zinc as Zn	mg/l	3111-Zn, D	<0.006	5	15
24	Mercury as Hg	mg/l	3112-Hg,B	BDL***	0.001	NR**
25	Arsenic as As	mg/l	3114-As,B	BDL***	0.1	0.5
26	Total coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	
27	Faecal coliforms	MPN/100ml	9221	Absent		

*As per APHA/AWWA, 23rd Ed. ** NR= No relaxation, ***BDL=Below Detection Limit
Note: It is recommended that the 'acceptable limit' is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

Dr Divya Misra
Dr Divya Misra
Managing Director

-----End of this Report-----

Page- 1 of 1

Services Provided
Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology,
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STPI/ETP, Clearances from Ground Water
Board, Compliance of E.C., NOC from UPPCB, MoEF, ISO and BIS Certification, EHS Training

Test Report for Ground Water Quality

Report No.	Reference No	Issue Date
PCS/WQ/06/2018	PCS/SD/03/2018	16/11/201

1. Name of Proponent: M/s Saraya Distillery Sardarnagar , Ditt. Gorakhpur -273202 (U. P.)
2. Type of Industry: Distillery
3. Sampling Location: **Hand Pump Near Shemford School**
4. Sampling Done by: Mr. Ajay Kumar & Mr. Shubham Pandey
5. Weather Condition : Clear Sky
6. Method of sampling: As per standard Method
7. Identification of Sample: Water Sample Collected 2 Lt. in Bottle
8. Date of Sampling: 23/10/2018
9. Sample Receipt in Lab: 24/10/2018
10. Date of Testing: 25/10/2018 – 02/11/2018

Sl. No.	Parameters	Unit	Reference Method*	Hand Pump (Shemford School)	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in absence of alterna source
1	Colour	Hazen	2120 B	Clear	5	15
2	Odour	-	2150 A	Odorless	Agreeable	Agreeable
3	pH	-	4500H+- B	7.82	6.5 - 8.5	NR**
4	Turbidity	NTU	2130 B	0.5	1	5
5	Conductivity	µmhos/cm	2510 B	1160	-	-
6	TDS	mg/l	2540-C	642	500	2000
7	Hardness as CaCO ₃	mg/l	2340 C	388	200	600
8	Alkalinity	mg/l	2320 B	148	200	600
9	Chloride as Cl	mg/l	4500-Cl,B	24.0	250	1000
10	Sulphate as SO ₄	mg/l	4500-SO ₄ -E	12.4	200	400
11	Fluoride	mg/l	4500-F,D	0.6	1.0	1.5
12	Calcium as Ca	mg/l	3500-Ca,-B	51.3	75	200
13	Magnesium as Mg	mg/l	3500-Mg,B	63.2	30	100
14	Sodium as Na	mg/l	3500-Na,B	45.0	-	-
15	Potassium as K	mg/l	3500-K,B	7.0	-	-
16	Copper as Cu	mg/l	3111-Cu, B	<0.003	0.05	1.5
17	Chromium as Cr	mg/l	3111-Cr, B	<0.005	0.05	NR**
18	Cadmium as Cd	mg/l	3111-Cd, B	<0.002	0.003	NR**
19	Iron as Fe	mg/l	3111-Fe,D	<0.009	0.3	NR**
20	Manganese as Mn	mg/l	3111-Mn,D	<0.004	0.1	0.3
21	Nickel as Ni	mg/l	3111-Ni, D	<0.007	0.02	NR**
22	Lead as Pb	mg/l	3111-Pb,B	<0.01	0.01	NR**
23	Zinc as Zn	mg/l	3111-Zn, D	<0.002	5	15
24	Mercury as Hg	mg/l	3112-Hg,B	BDL***	0.001	NR**
25	Arsenic as As	mg/l	3114-As,B	BDL***	0.1	0.5
26	Total coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	
27	Faecal coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	

*As per APHA/AWWA, 23rd Ed. **NR=No relaxation, ***BDL=Below Detection Limit
Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.



Dr Divya Misra
Managing Director

-----End of this Report-----

Page- 1 of 1

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Board, Compliance of E.C., NOC from UPPCB, MoEF, ISO and BIS Certification, EHS Training

-17-

Test Report for Ground Water Quality

Report No.	Reference No	Issue Date
PCS/GWQ/07/2018	PCS/SD/03/2018	16/11/20
1. Name of Proponent:	M/s Saraya Distillery Sardarnagar, Ditt. Gorakhpur -273202 (U. P.)	
2. Type of Industry:	Distillery	
3. Sampling Location:	Tube well	
4. Sampling Done by:	Mr. Ajay Kumar & Mr. Shubham Pandey	
5. Weather Condition :	Clear Sky	
6. Method of sampling	As per standard Method	
7. Identification of Sample	Water Sample Collected 2 Lt. in Bottle	
8. Date of Sampling:	23/10/2018	
9. Sample Receipt in Lab:	24/10/2018	
10. Date of Testing:	25/10/2018 - 02/11/2018	

Sl. No.	Parameters	Unit	Reference Method*	Ground Water (Tube well)	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit the absence of alternate source
1	Colour	Hazen	2120 B	Clear	5	15
2	Odour	-	2150 A	Odorless	Agreable	Agreable
3	pH	-	4500H+-B	7.67	6.5 - 8.5	NR**
4	Turbidity	NTU	2130 B	0.5	1	5
5	Conductivity	µmhos/cm	2510 B	650	-	-
6	TDS	mg/l	2540-C	364	500	2000
7	Hardness as CaCO ₃	mg/l	2340 C	220	200	600
8	Alkalinity	mg/l	2320 B	140	200	600
9	Chloride as Cl	mg/l	4500-Cl,B	18.0	250	1000
10	Sulphate as SO ₄	mg/l	4500-SO4-E	14.0	200	400
11	Fluoride	mg/l	4500-F,D	0.6	1.0	1.5
12	Calcium as Ca	mg/l	3500-Ca,-B	40.0	75	200
13	Magnesium as Mg	mg/l	3500-Mg,B	29.2	30	100
14	Sodium as Na	mg/l	3500-Na,B	42.0	-	-
15	Potassium as K	mg/l	3500-K,B	6.0	-	-
16	Copper as Cu	mg/l	3111-Cu, B	<0.004	0.05	1.5
17	Chromium as Cr	mg/l	3111-Cr, B	<0.005	0.05	NR**
18	Cadmium as Cd	mg/l	3111-Cd, B	<0.002	0.003	NR**
19	Iron as Fe	mg/l	3111-Fe,D	<0.005	0.3	NR**
20	Manganese as Mn	mg/l	3111-Mn,D	<0.009	0.1	0.3
21	Nickel as Ni	mg/l	3111-Ni, D	<0.01	0.02	NR**
22	Lead as Pb	mg/l	3111-Pb,B	<0.016	0.01	NR**
23	Zinc as Zn	mg/l	3111-Zn, D	<0.005	5	15
24	Mercury as Hg	mg/l	3112-Hg,B	BDL***	0.001	NR**
25	Arsenic as As	mg/l	3114-As,B	BDL***	0.1	0.5
26	Total coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	
27	Faecal coliforms	MPN/100ml	9221	Absent		

*As per APHA/AWWA: 21st Ed. **NR= No relaxation, ***BDL=Below Detection Limit
Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

Dr Divya Misra

Dr Divya Misra
Managing Director

-----End of this Report-----

An Approved Laboratory from MoEF vide S.O. No. 1190 (E) dated 01/05/2014 and Valid up to 30/04/2019

Test Report for Water Quality

Issue Date
16/11/20

Report No.
PCS/WQ/08/2018

Reference No
PCS/SD/03/2018

1. Name of Proponent: M/s Saraya Distillery Sardarnagar, Distt. Gorakhpur -273202 (U. P.)
2. Type of Industry: Distillery
3. Sampling Location: Recycling Water Pit Infront of Executive office
4. Sampling Done by: Mr. Ajay Kumar & Mr. Shubham Pandey
5. Weather Condition: Clear Sky
6. Method of sampling: As per standard Method
7. Identification of Sample: Water Sample Collected 2 Lt. in Bottle
8. Date of Sampling: 23/10/2018
9. Sample Receipt in Lab: 24/10/2018
10. Date of Testing: 25/10/2018 - 02/11/2018

Sl. No.	Parameters	Unit	Reference Method*	Recycling Water Pit Sample	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit the absence of alternate source
					5	15
1	Colour	Hazen	2120 B	Clear	Agreeable	Agreeable
2	Odour	-	2150 A	Odorless	6.5 - 8.5	NP**
3	pH	-	4500H+- B	7.54	1	5
4	Turbidity	NTU	2130 B	1.0	-	-
5	Conductivity	µmhos/cm	2510 B	940	500	2000
6	TDS	mg/l	2540-C	523	200	600
7	Hardness as CaCO ₃	mg/l	2340 C	320	200	600
8	Alkalinity	mg/l	2320 B	180	250	1000
9	Chloride as Cl	mg/l	4500-Cl,B	44.0	200	400
10	Sulphate as SO ₄	mg/l	4500-SO4-E	22.0	1.0	1.5
11	Fluoride	mg/l	4500-F,D	0.8	75	200
12	Calcium as Ca	mg/l	3500-Ca,-B	88.2	30	100
13	Magnesium as Mg	mg/l	3500-Mg,B	24.3	-	-
14	Sodium as Na	mg/l	3500-Na,B	48.0	-	-
15	Potassium as K	mg/l	3500-K,B	11.0	-	1.5
16	Copper as Cu	mg/l	3111-Cu, B	<0.004	0.05	NR**
17	Chromium as Cr	mg/l	3111-Cr, B	<0.007	0.05	NR**
18	Chromium as Cr	mg/l	3111-Cd, B	<0.003	0.003	NR**
19	Cadmium as Cd	mg/l	3111-Fc,D	<0.01	0.3	NR**
20	Iron as Fe	mg/l	3111-Mn,D	<0.01	0.1	0.3
21	Manganese as Mn	mg/l	3111-Ni, D	<0.009	0.02	NR**
22	Nickel as Ni	mg/l	3111-Ni, D	<0.002	0.01	NR**
23	Lead as Pb	mg/l	3111-Pb,B	<0.005	5	15
24	Zinc as Zn	mg/l	3111-Zn, D	<0.005	0.001	NR**
25	Mercury as Hg	mg/l	3112-Hg,B	BDL***	0.1	0.5
26	Arsenic as As	mg/l	3114-As,B	BDL***	0.1	0.5
27	Total coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	
27	Faecal coliforms	MPN/100ml	9221	Absent	Should be absent in any 100/ml sample	

*As per APHA/AWWA, 23rd Ed. ** NR= No relaxation, ***BDL=Below Detection Limit
Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected

(Signature)

Dr Divya Misra
Managing Director

-----End of this Report-----

Page- 1 of 1

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Board, Compliance of E.C., NOC from UPPCB, MoEF, ISO and BIS Certification, EHS Training

- 19 -

Test Report of Surface Water

Report No.	Reference No.	Issue Date
PCS/SW/1/2018	PCS/SD/02/2018	16/11/201
1. Name of Proponent:	M/s Saraya Distillery Sardarnagar, Distt. Gorakhpur-273202(U.P.)	
2. Sampling Location:	Vashi Nala	
3. Type of Industry:	Distillery	
4. Sampling Done by:	Mr. Ajay Kumar & Mr. Shubham Pandey	
5. Weather Condition :	Clear Sky	
6. Method of sampling	As per standard Method	
7. Identification of Sample	Water Sample Collected in 2 Lt. Bottle	
8. Date of Sampling:	23/10/2018	
9. Sample Receipt in Lab:	24/10/2018	
10. Date of Testing:	25/10/2018 - 02/11/2018	

S. N	Parameters	Unit	Results Vashi Nala	Standard**	
				Inland Surface water	Public Sewers
				5 max	25 max.
1	Taste	.....	<5	Unobjectionable	No Relaxation
2	Odour	.....	Unobjectionable	100	600
3	Suspended Solids	mg/l	61.4	5.5 to 9.0	5.5 to 9.0
4	pH value	.....	7.68	Shall not exceed 5°C Above the receiving Water temperature	.....
5	Temperature	°c	24.3	10.0	20.0
6	Oil & grease	mg/l	6.4	3.0	3.0
7	Iron (as Fe)	mg/l	1.8	1.0	...
8	Total Residual Chlorine	mg/l	NT**	50.0	50.0
9	Ammonical Nitrogen	mg/l	23.5	100.0	...
10	Total Kjeldahl Nitrogen	mg/l	52.0	5.0	...
11	Free ammonia (as NH3)	mg/l	7.0	30.0	350.0
12	Biochemical oxygen demand (3 days at 27°C)	mg/l	60.0	250.0	...
13	Chemical oxygen demand	mg/l	312	0.2	0.2
14	Arsenic (as As)	mg/l	<0.001	0.01	0.01
15	Mercury (as Hg)	mg/l	<0.001	0.1	0.1
16	Lead (as Pb)	mg/l	<0.05	2.0	1.0
17	Cadmium (as Cd)	mg/l	<0.026	2.0	2.0
18	Total Chromium (as Cr)	mg/l	<0.034	3.0	3.0
19	Copper (as Cu)	mg/l	<0.06	5.0	15.0
20	Zinc (as Zn)	mg/l	<0.05	3.0	3.0
21	Nickel (as Ni)	mg/l	<0.07	2.0	15.0
22	Fluoride (as F)	mg/l	1.3	5.0	...
23	Dissolved phosphate (as P)	mg/l	3.6	2.0	...
24	Sulphide (as S)	mg/l	0.54	...	...

* As per APHA/AWWA 23rd Ed. -NF-Not Traceable BDL* -Below Detection Limit
**Standard as per Schedule VI inserted by Rule 2(d) of the Environmental (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993

- Note: 1. The results in the Test Report related only to the items tested
2. The report shall not be reproduced except in full without the written permission of laboratory
3. The report shall not be used for any other purpose than declared by the sponsor.
4. Prakriti Consultants services are not regulatory agency hence no part of this report should be used for legal purpose under any circumstances

Dr Divya Misr
Dr Divya Misr
Managing Director

-----End of this Report-----



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

ANNEXURE-

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s Saraya Distillery		
Project Address:	Saraya Distillery, Sardarnagar, Gorakhpur		
Village:	Ayodhya Chak	Block:	Sardarnagar
District:	Gorakhpur	State:	Uttar Pradesh
Pin Code:	273202		
Communication Address:	Saraya Distillery, Block – Sardarnagar, District - Gorakhpur, Uttar Pradesh - 273202		
Address of CGWB Regional Office :	Regional Director, Central Ground Water Board, Northern Region, Bhujal Bhawan, Sector – B, Sitapur Road Yojana, Ram Ram Chauraha, Lucknow, Uttar Pradesh – 226021		

1. NOC No.:	CGWA/NOC/IND/ORIG/2019/5680									
2. Application No.:	21-4/3417/UP/IND/2017	3. Category:	Industry							
4. Project Status:	Existing Project	5. NOC Type:	New							
6. Valid from:	18/07/2019	7. Valid up to:	17/07/2021							
8. Ground Water Abstraction Permitted:			Total							
Fresh Water		Saline Water		Dewatering		Total				
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year			
1337	441210					1337	441210			
9. Details of ground water abstraction /Dewatering structures							Total Proposed No.:0			
Total Existing No.:2										
	DW	DCB	BW	TW	MP	DW	DCB	BW	TW	MP
Abstraction Structure*	0	0	0	2	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit										
10. Quantum of ground water recharge/conservation (m ³ /year):	235170									
11. Number of Piezometers (Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers		Monitoring Mechanism							
			Manual	DWLR**	DWLR With Telemetry					
**DWLR - Digital Water Level Recorder	2		0	1	1					

(Compliance Conditions given overleaf)

Digitally signed by
NANDAKUMARAN P
Date: 2019.08.19 14:42:03 +05'30'

Member (CGWA)

18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

स्वच्छ सुरक्षित जल - खुशहाल कल
CONSERVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following mandatory conditions:

1. No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
2. The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
3. All ground water abstraction/ de-watering structures shall be fitted/continue to be fitted with digital water flow meters by the firm at its own cost. Daily ground water abstraction data shall be monitored / continue to be monitored (in case of renewal) by the firm and recorded in a log book. Details of month-wise ground water abstraction shall be submitted to the Regional Director, CGWB on annual basis.
4. In case the ground water abstraction is more than 10 m³/day, monthly water level monitoring data shall be maintained and submitted annually to the Regional Office of CGWB. Wherever groundwater withdrawal is more than 500 m³/day, the firm shall install telemetry system in one of the piezometers and share USER ID and password of the telemetry system with the Regional Director, CGWB.
5. In case ground water abstraction is more than 10 m³/day, ground water quality shall be monitored once in a year (during pre- monsoon period) and the report submitted to the Regional Director, CGWB.
6. Ground water augmentation measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the Regional Director, CGWB.
7. Proof of recharge/ water harvesting (photographs of structures constructed) shall be submitted to the Regional Director, CGWB. The firm shall also undertake periodic maintenance of recharge structures at its own cost.
8. The firm shall optimize water use through recycling/ reuse of waste water after proper treatment.
9. The project proponent shall take all necessary measures to prevent contamination of ground water in the premises, failing which the firm shall be responsible for any consequences arising thereupon.
10. In case of industries likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
11. Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
12. In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
13. Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the Regional Director, Central Ground Water Board.
14. The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
15. This NOC is subject to prevailing Central/ State Government rules/ laws/ norms or Court orders related to construction of tube well/ ground water abstraction structure/ recharge or conservation structure/discharge of effluents or any such matter as applicable.
16. This NOC does not absolve the proponents of their obligation/ requirement to obtain other statutory and administrative clearances from appropriate authorities.
17. The issue of this NOC does not imply that other statutory/ administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
18. This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/ court orders in cases related to ground water or any other related matters.
19. Application for renewal can be submitted online from 90 days before the expiry of NOC. Application for renewal of expired NOCs shall not be entertained and subsequent ground water withdrawal, if any, shall be illegal & liable for legal action as per provisions of Environment Protection Act (EPA), 1986.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)