

# **ENVIRONMENTAL STATEMENT**

**OF**

**GOBIND SUGAR MILLS LIMITED  
SUGAR DIVISION  
AIRA ESTATE, KHAMARIA PANDIT  
DISTRICT: LAKHIMPUR KHERI  
UTTAR PRADESH - 262722**

**Financial Year 31<sup>st</sup> March 2022**

*Submitted by-*

**GOBIND SUGAR MILLS LIMITED  
SUGAR DIVISION  
AIRA ESTATE, KHAMARIA PANDIT  
DISTRICT: LAKHIMPUR KHERI  
UTTAR PRADESH - 262722**



# ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

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ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

Date: 26.09.2022

## CERTIFICATE

The Environmental statement for year 2021-2022 of the **Gobind Sugar Mills Limited, Sugar Division, Aira Estate, Khamaria Pandit, District: Lakhimpur Kheri (U.P.) - 262722** has been prepared by us at the request of the factory management. The data on which this report is based was provided to us by the factory administration. The testing and analysis of the Effluents, Ambient Air Quality, Ambient Noise level and Stack Emission was carried out by us.

**Dr. Manoj Garg**

**ENVIRONMENTAL AUDITOR**

Environmental & Technical Research Center, Lucknow (U.P.) India

(An ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified,

NABL & MoEF Accredited Lab)

ENVIRONMENTAL STATEMENT  
THE ISSUES, FOCUS & METHODOLOGY

**INTRODUCTION**

In Today's world of keen demand on financial and economic competitiveness through industrialization and simultaneous strong growing social awareness towards risks and environmental degradation associated with industrialization, the industry is under serious stress as to how to tackle it. Therefore, it is in the interest of every industry to have some formalized procedure, to provide the management, the vital knowledge of its compliance with environmental laws and procedures towards the environmental protection and their social acceptability. The formalized procedure to achieve the aforementioned objective is now popularly known as "**Environmental Audit**".

The concept of environmental audit is not some thing unheard of, rather it came into operation during the early 1970's in USA and industrialized European countries. However, it had a number of different approaches and names, like environmental reviews, environmental quality controls etc.

In view of the experience of developed nations where such procedure have benefited the industries and helped in reducing the environmental degradation there, the developing countries have also started taking initiatives in adopting such methodologies.

**DEFINING ENVIRONMENTAL AUDIT**

There is no single universally accepted definition of environmental audit, perhaps, because of absence of standard procedure and methodology to conduct this kind of study. However, the definition accepted by Internal Chamber of Commerce (ICC) is comprehensive and is as follows:

**"Environmental Audit"** is a management tool comprising a systematic documented, periodic and objectives evaluation of how well organizations, management systems and equipment are performing with the aim of:-

**[1]Facilitating management control on environmental practices.**

**[2] Assessing compliance with company policies, including meeting regulatory requirements.**

Environmental audit, therefore, has two basic components :

**(a) Management Audit on Environmental philosophy of the organization.**

**(b) Technical Audit of the plant, equipment, facilities & operating practices compliance.**

Environmental Audit differs from Environmental Impact Assessment (EIA), in that, the latter is predicative concept, carried out during the planning phase before an operation starts, while the audit is systematic examination of performance during the operational phase of industrial activity, including verification of adequacy of the suggested Environmental Management Plan ((EMP) generated during EIA phase.

#### **WHY AUDIT**

As the definition of environmental audit suggests, it is required to be carried out by the desire of the company's management either on regulatory pressure or by its own consciousness/anxiety to have an assurance that the company's environmental management phase is adequately and satisfactorily operating. Thus prima facie the audit programme provides assurance to the company's managements the conformance to the enforced regulatory requirements, the consistency and adequacy of its environmental protection and pollution control systems and effectiveness of information reporting procedures.

#### **BENEFITS OF AUDIT**

The benefits of environmental audit to the pursuing industry are as broad as the audit objectives. As an example, a typical audit program objective could be related to verification for the compliance status of individual facilities only or could be more comprehensive and define the changes necessary to reduce the wastage in production process itself.

The benefit of this study however would not end with just the identification and documentation of compliance status but will result in increased

environmental effectiveness through improved compliance record, reduced occupational hazards, fewer legal actions, timely corrective actions for correction of faulty operating equipment/ instruments/ systems. The benefits influenced by audit are generally quantifiable, tangible and real. The reduced legal actions brought against company and/ or individuals, reduced fines/ penalties, reduced accidents, reduced incidences of environmental hazards, improved workers health, increase in worker productivity, reduced insurance rate etc., to list only a few . The intangible benefits would include better reputation, favorable publicity, improved relations with regulatory authorities, increased job satisfaction for workers, increased involvement in day to day environmental related activities and greater commitments etc. thus industries have to realize that a strong environmental performance can help both within the company and outside the company.

#### **AUDIT AS A PART OF ENVIRONMENTAL MANAGEMENT PLAN (EMP)**

From the benefits an environmental audit brings to the industry, it is amply clear that audit should not be perceived as just a regulatory requirement, rather it is to the company's own advantage to include auditing in its Environmental Management Plan (EMP). Environmental Management Plan is an overall framework, involving well defined group of personnel assignment with specific responsibilities to develop, installed and monitor environment related plans for the company.

As any other management system, EMP also involves planning, organizing, guiding, directing, communicating and finally controlling and reviewing to achieve the goals for which this management system is devised. The audit evidently falls in the controlling and reviewing function of EMP, because this function involves measuring results, comparing performances, diagnosing problems, taking corrective action based on the feedback and finally improving the system.

Although auditing may appear small part of EMP yet it is perhaps the most significant part of EMP. It has direct influence on the other functions of EMP and all other functions have to be reviewed/ redesigned based on audit recommendations.

**Form V  
for  
Environmental Audit Report**

It has been stated in the beginning that Environmental audit has a number of benefits. This, besides improving the Environmental Management of an organization, also increases the organizations's profitability in tangible as well as intangible terms. India is one of the developing countries, working towards a high economic growth rate by taking certain steps. Most important of these steps would call for further rapid industrialization.

The Government of India has notified the requirement for carrying out Environmental Audit for all the operating industries vide their Gazette Notification No.120 dated March 13, 1992. This is an amendment under the Environment Protection Act 1986. To help the industry in formulating the requisite information regarding its raw material usage, product profile, production process, waste discharge, pollution control system etc. a prescribed Performa is enclosed with the notification. The Performa has been prepared primarily to cover only the regulatory compliance requirements on the basis on data reported and presented by the industry.

The environmental statement is to be submitted in Form V , which has nine parts, namely Part A, B, C, D, E, F, G, H & I.

Part A contains the name and address of the owner and the date of the last environmental audit report submitted.

Part B pertains to the consumption of waste and raw materials. water consumption is to be given separately for process, cooling, and domestic uses, in m<sup>3</sup>/day and also in terms of water consumption/unit of product, for the various products. Similarly information's on raw materials consumption, product-wise per unit of output is to be provided.

Part C relates to the quantities of hazardous wastes generated, separately from the process and from pollution control facilities.

Part D deals with the quantities of solid wastes generated from the process as well as pollution control facilities,.

Part E deals which the quantities of solid wastes generated from the process as well as pollution control facilities, and seeks to know also about the quantities recycled or reutilized.

All the Parts from B to E require comparisons of the current year performance with that of the pervious year.

Part F seeks information regarding characteristics (in terms of concentration and quantum) of Hazardous and solid wastes and about the practice adopted for the disposal of both these categories of wastes.

Part G calls for information on the impact of pollution measures on the conservation of natural resources and consequently on the cost of production.

The industry is required to indicate, in Part H, its future proposals for investment in environmental protection, including abatement of pollution.

In the last Part, I, any other particulars, in respect of environmental protection and abatement of pollution may be given.

## **CONCLUSIONS**

Taking advantage of the requirements of regulatory bodies the industry can take concrete steps now, to derive full benefits of Environmental Audit to become Environmental Friendly and yet more competitive. Environmental Audit, therefore, is not a restrictive requirement, but indeed a very useful and potent tool for building up the competitiveness in our industry .

## **LEGAL PROVISIONS**

Ministry of Environment and Forests, Noti. No. G.S.R.945 (E), dated February 12, 1992, published in the Gazette of India Extra. Part II, Section 3(i),dated 12 February, 1992, p.2(No. Q - 14011(1)/90—CPA.) :-

In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986(29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely :—

[1] (i) **These rules may be called the Environment (Protection) Rules, 1992.**

(ii) **They shall come into force on the date of their publication in the Official Gazette.**

**[2] In Rule 3 of the environment (protection) Rules, 1986, after sub rule the following sub rules will be added, namely :—**

[(6) Notwithstanding any thing contained in sub rule (3), an industry operation process which commenced production on or before 16th May, 1981 and has shown adequate proof of a least commencement of physical work for establishment of facilities of meeting the specified standards with in a time—bound programe, to the satisfaction of the concerned state pollution control board, shall comply with such standards latest by the 31st day December, 1993.]

[(7) Notwithstanding anything contained in sub—rule(3) or sub rule (6) industry, operation of process which has commenced production after the 16th day of may, 1991 but before the 31st day of December, 1991 and has shown adequate proof of a least commencement of physical work of establishment of facilities to meet the specified standards with in a time—bound programe, to the satisfaction of the concerned state pollution control Board, shall comply with such standards latest by the 31<sup>st</sup> day of December, 1992.]

Ministry of Environment and  
Forests, Noti. No. G.S.R. 329(e) dated March 13, 1992, published in the Gazette of India  
, Extra. , Part II , Section 3(i), deed 13<sup>th</sup> March 1992, Sl . No. 120, pp.3-4(F.  
No.q.15015/1/90—CPA).

In exercise of the powers conferred by Sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:-

[1] 1. These rules may be called the Environment (Protection) (Second Amendment) Rules, 1992.

2. They shall come into force on the date of their publication in the Official Gazette.

[2] In the environment (protection) Rules, 1986 after rule 13, the following rule shall be inserted,



#### **"14, Submission of Environmental Audit Report:-**

Every person carrying on an industry, operation or process requiring consent under section 25 of the water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) or under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, (14 of 1981) or both authorization under the Hazardous wastes (Management and Handling) Rules, 1989, issued under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an environmental audit report for the financial year ending the 31st March in form V to the concerned state pollution control board on or before the 15th day of May every year, beginning , 1993.

#### **Ministry of Environment and Forest**

New Delhi : the 28th April, 1994 G.S.R. 329 (E), In exercise of the powers conferred by Sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the environment (Protection) Rule 1986, namely :—

[1] 1. These rules may be called the Environment (Protection) Amendment Rules, 1993 .

2. They shall come into force on the date of their publication in the Official Gazette.

[2] In the Environment (Protection) Rules, 1986, (a) In rule 14,

For the word audit report whenever they occur the word "statement" shall substituted.

(ii) For the figure letters and word "15<sup>th</sup> day of May" the word the "30<sup>th</sup> day of September" shall be submitted.

**(FORM – V)**  
**(See Rule 14)**

Environmental statement report for the financial year Ending  
the 31<sup>st</sup> March 2022

**PART - A**

<b>i</b>	<b>Name and Address of the Owner / Occupier of Industry operation or Process</b>	<b>Gobind Sugar Mills Limited Sugar Division Aira Estate, Khamaria Pandit District: Lakhimpur Kheri Uttar Pradesh - 262722</b>
<b>ii</b>	<b>Cane Crushing and Power Capacity of the Unit</b>	<b>10000 TCD and 39.7 MW</b>
<b>iii</b>	<b>Year of establishment</b>	<b>December, 2007</b>
<b>iv</b>	<b>Date of last Environmental statement submitted.</b>	<b>September, 2021</b>
<b>v</b>	<b>Industry Category Primary : (STC code) Secondary : (STC Code)</b>	<b>SECONDARY</b>

**RAW MATERIAL CONSUMED AND PRODUCT AT A GLANCE  
In the Crushing Season**

	<b>2021-2022</b>	<b>2020-2021</b>
Date of Start of Plant	15-11-2021	24/11/2020
Date of Finish	09-04-2022	28/03/2021
Gross Season Days	145	125
Duration of Season Days	149	125
Total Cane Crushed (T)	13367287.31	1116387.056
Total Sugar Made (T)	1261667	115479.3
Total Molasses made (T)	884795	73898.2
Total Bagasse Produced (T)	27.94	307899.55
Total Filter Cake Produced (T)	3.72	38738.63
Lime Consumed (T)	0.144	1730.40
Sulphur Consumed (T)	0.037	435.39
Oil & Grease Consumed	0.04 kg/ 100 Qunitals of Cane	0.098 kg/ 100 Qunitals of Cane
Caustic Soda Consumed	0.236 kg/ 100 Qunitals of Cane	0.257 kg/ 100 Qunitals of Cane
Washing Soda Consumed	-	-

**(PART – B)**

**I. Water and Raw Material Consumption**

i	Water Consumption	2845 m <sup>3</sup> /day at 100 % Utilization
ii	Process	1170 m <sup>3</sup> /day
iii	Cooling	1425 m <sup>3</sup> /day
iv	Domestic	250 m <sup>3</sup> /day
<b>Water Consumption per Unit Products</b>		
<b>Name of Product</b>	<b>During the Crushing Year</b>	<b>During the Crushing Year</b>
	<b>2021-2022</b>	<b>2020-2021</b>
Sugar	3.37 m <sup>3</sup> /T of Sugar	3.08 m <sup>3</sup> /T of Sugar

**II. Raw Material Consumption**

	<b>Name of Raw Material</b>	<b>Name of Product</b>	<b>Consumption of Raw Material per unit of Product</b>	
	<b>During the Crushing Years</b>			
			<b>2021-2022</b>	<b>2020-2021</b>
1	Sugar Cane	Sugar	10.59 T/T of Sugar	9.67 T/T of Sugar
2	Lime	Sugar	0.015 T/T of Sugar	0.015 T/T of Sugar
3	Sulphur	Sugar	0.004 T/T of Sugar	0.004 T/T of Sugar
4	Caustic Soda	Sugar	0.25 kg/T of Sugar	0.25 kg/T of Sugar

**(PART – C)**  
**Pollution Discharged to Environment/Unit of Output in the**  
**Crushing season 2021-2022**

<b>Pollutant</b>	<b>Quantity of Pollutants discharged (Mass/Day)</b>	<b>Concentration pollutant in Discharge (mass/volume)</b>	<b>Percentage of Variation from prescribed standard with reasons</b>
<b>a) Waste water (Average of 10 Samples in the Season ) 2021-2022</b>			
B.O.D.	20 Kg/day	20.0 mg/l	Within the max limit of 30 mg/l (33.33 % below the limit)
C.O.D	86.0 Kg/day	86.0 mg/l	Within the max limit of 250 mg/l (65.60 % below the limit)
T.S.S	22.8 Kg/day	22.8 mg/l	Within the max limit of 30 mg/l (24.0 % below the limit)
Oil & Grease	-	<5 mg/l	Within the max limit of 10 mg/l
<b>b) Stack Air (Average of 06 Samples in the Season) 2021-2022</b>			
PM* (Stack nos- 1)	86.0 mg/Nm <sup>3</sup>		Within the max limit of 150 mg/Nm <sup>3</sup> (42.67 % below the limit)
PM* (Stack nos- 2)	82.0 mg/Nm <sup>3</sup>		Within the max limit of 150 mg/Nm <sup>3</sup> (45.33 % below the limit)

\* PM for Particulate Matter

<b>Pollutant</b>	<b>Quantity of Pollutants discharged (Mass/Day)</b>	<b>Concentration pollutant in Discharge (mass/volume)</b>	<b>Percentage of Variation from prescribed standard with reasons</b>
<b>c) Noise Level (Average of 06 Samples in the Season ) 2021-2022</b>			
Average of 24 hourly Sampling	57.4 db		Within the limit of 75 db (23.47 % below the limit)
<b>d) Ambient Air Quality Monitoring (Average of 6 Samples in the Season at 3 sampling Point) 2021-2022</b>			
PM <sub>10</sub>	82.7 µg/m <sup>3</sup>	100 µg/m <sup>3</sup> (Max Limit)	17.30 % below the limit
PM <sub>2.5</sub>	46.17 µg/m <sup>3</sup>	100 µg/m <sup>3</sup> (Max Limit)	23.05 % below the limit
SO <sub>2</sub>	12.76 µg/m <sup>3</sup>	80 µg/m <sup>3</sup> (Max Limit)	84.05 % below the limit
NO <sub>x</sub>	18.59 µg/m <sup>3</sup>	80 µg/m <sup>3</sup> (Max Limit)	76.76 % below the limit

**\*Industry is complying with latest norms/standards as per the notification issued by MOEF&CC vide its GO no GSR .35 (E) dated 14/01/2016 related to the Sugar industries.**

**Treated water will be recycled back in process and As per GSR 35(E) dated 14.01.2016 i.e. Environmental Standards for Sugar Industry.**

**Treated effluent of B.O.D less than 30 milligram per liter is discharged in surface water if found surplus.**

**\*All the parameters were found within standard, Stipulated by U.P.P.C.B, it shows that our ETP and APCS is Working perfectly .Test reports are enclosed.**

**(PART – D)**  
**HAZARDOUS WASTES**  
**(as per under Hazardous wastes/ Management & Handling rules,**  
**1989)**

<b>Hazardous Wastes</b>		<b>Total Quantity (T)</b>	
		<b>During the Crushing Year</b>	
		<b>2021-2022</b>	<b>2020-2021</b>
a)	From Process	Nil	Nil
b)	From Pollution control facilities (i.e. ETP) in the Form of Oil & Grease emulsion	2.28 T	5.63 T

**All the Oil & Grease collected from the ETP are being incinerated in Boilers with Bagasse as fuel.**

**PART – E**  
**SOLID WASTES**

Solid Wastes		Total Quantity	
	<b>During Crushing Years</b>		
		<b>2021-2022</b>	<b>2020-2021</b>
<b>(a) From Process</b>			
i	Press Cake	49726.31 T	38738.63 T
ii	Bagasse	373482.0074 T	307899.55 T
iii	Boiler Ash	9204.6 T	7722.0 T
iv	Molasses	88479.5 T	73898.2 T
<b>(b) From Pollution Control facilities</b>			
i	Sludge from ETP	29.92 T	465.80 T
ii	Oil & Grease	5.63 T	5.63 T
<b>(c) Uses of Solid Wastes</b>			
i	Press Cake	100% as Manure	
ii	Bagasse	100 %as Own fuel	
iii	Boiler Ash	100% as Sanitary land fill	
iv	Molasses	100% Sold to Fermentation industry	
v	SPM from APCS	100% as land fill	
vi	Sludge from ETP	100% as manure	
vii	Oil & Grease From ETP	100% used as fuel with bagasse in boiler	



**PART – F**  
**Hazardous as well as solid waste and Indicate Disposal Practice**  
**adopted for both these Categories**

- (i) No hazardous waste are generated except oil and Grease from ETP.  
(ii) For the Disposal of Non – hazardous wastes , Please see our replies given in part ‘E’.

**CHARACTERISTIC OF SOLID WASTE**

<b>a) Press mud</b>		
Phosphorous	as (P <sub>2</sub> O <sub>5</sub> )	4450 mg/Lit
Potassium	as (K <sub>2</sub> O)	4520 mg/Lit
Calcium	as (CaO)	10400 mg/lit
Magnesium	as (MgO)	9440 mg/lit
Available Nitrogen		50 mg/lit
Moisture		75%
Wax		9%
<b>b) Bagasse (Chemical Composition)</b>		
C (Carbon)		47%
H (Hydrogen)		6.5 %
O (Oxygen)		44 %
Ash		2.5 %
Gross Calorific value of Dry Bagasse		2200-2000 K.Cal/Kg

<b>C) Characteristic of Bagasse Fly ash</b>		
i	Heating Value	11.2 Mj/Kg
ii	Moisture	3.96 %
iii	Volatile Matter	11.96%
iv	Ash	63.29%
v	Fixed Carbon	21.16%

### **PART – G**

#### **Impact of Pollution control measures on Conservation of Natural resources and Consequently on the Cost of Production.**

At present moment , we are spending a good deal of money on pollution control measures.

And we intend to explore the following possibilities for :-

1. Recovery of Energy
2. Saving in Bagasse

## **PART – H**

### **Additional investment Proposal for Environmental Protection including statement of Pollution**

We have already taken up the following Steps :

#### **Water Pollution**

- 1) Segregation and separation disposal of unpolluted spray pond over flow, thus bringing down considerably the quantity of Effluent following into the ETP.
- 2) Installation of a flow meter for Effluent Control.
- 3) Modification in the system of flow in the ETP
- 4) Feeding of Cow Dung Slurry and Lime in adequate quantities was done in the Aerobic lagoon
- 5) Industry is complying with latest norms/standards as per the notification issued by MOEF&CC vide its GO no GSR .35 (E) dated 14/01/2016 related to the Sugar industries.  
Treated water will be recycled back in process and As per GSR 35(E) dated 14.01.2016 i.e. Environmental Standards for Sugar Industry.

Treated effluent of B.O.D less than 30 milligram per liter is discharged in surface water if found surplus.

As a result of the above mentioned modification the BOD has been brought down to 20 mg/l & T.S.S 22.8 mg/l.

#### **OUR TREATMENT STRATEGY**

Factory has already installed our ETP , treatment strategy of ETP is as Follows.

#### **Effluent treatment plant**

Effluent treatment plant is a unit in which all the liquid effluents of industry are treated.

The detailed process to treat the waste water generated from the sugar Unit is given below:

#### **(A) Bar Screen-**

Bar Screens are mechanical filter are normally installed as the first line of defense to remove large objects primarily, rags, woods, Plastics that manage to escape and find their way through the drainage systems. Usually these objects can be of extreme nuisance because if left around going to the main treatment plant, they pose a significant risk of damaging pumps and blocking valves.

The racks (of Bar Screen) require constant attention to clean it manually or mechanically and whatever collections of materials are stored in a waste bin before sent to sanitary landfill for disposal.

Bar screens come in many designs. Some employ automatic cleaning mechanisms using electric motors and chains, some must be cleaned manually by means of a heavy rake. Items removed from the influent are called screenings and are collected in dumpsters. As a bar screen collects objects, the water level will rise, and so they must be cleared regularly to prevent overflow.

### **(B) Oil and grease pit (Oil Skimmers)-**

Organic toxic waste (oil and grease (O&G)) causes ecology damages for aquatic organisms, plant, animal, and equally, mutagenic and carcinogenic for human being. They discharge from different sources to form a layer on water surface that decreases dissolved oxygen. O&G layer reduces biological activity of treatment process where oil film formation around microbes in suspended matter and water. This lead to decrease dissolved oxygen levels in the water. Then oxygen molecules are difficulty to be oxidative for microbial on hydrocarbon molecules and cause ecology damages to water bodies.

The conventional techniques remove oil and grease using skimming tanks with skimmer and oil and grease traps in treatment plants.

The skimmer is a rotating cylindrical device design to remove the surface oil layer. It consists of using cohesive force between the oil and the surface of the material to be move up. The metal part must be immersed in 1cm to 3cm of the free oil layer floating on the top of the water. The oil catches in the rotary device drop in a conveyor which evacuates oil in a container for oil recovery. After bar screen waste water will move to Oil and grease pit. Here all the oil and grease will be removed from the waste water.

The remaining oil causes clogging of pipes in treatment units that need cleaning and sometimes replacement of pipes. This lead to increase maintenance and inspection cost. Recently, alternative uses of biochemical route (enzymes and lipases) have potentially gained more attention due to their clean and friendly application and to overcome limitation. Microbial activity plays significant role in performance, strength purification process, and elimination of pre-treatment process in wastewater treatment plant depending on enzyme costs. Environmental studies described prevention of fat blockage or filming in waste systems before discharging wastewater into sewage system. These studies investigated new approach to degrade organic matter with commercial mixture (lipase enzymes) that cleans holding tanks, septic tanks, grease traps, and other systems.

### **(C) Equalization Tank-**

An equalization tank providing consistent flow and loading to a biological process is important to maintain optimal treatment. Equalization (EQ) Basins are designed to provide consistent influent flow to downstream processes by retaining high flow fluctuations. Due to the additional retention time, aeration and mixing is required in equalization basins to prevent the raw wastewater from becoming septic and to maintain solids in suspension. We offer equipment that mixes your EQ Basin to keep suspended solids in solution, add fine bubble aeration to minimize odors, and also ensure predictable and constant flow equalization.

Effluent from the oil and grease pit comes to the equalization tank in wastewater treatment. The main function is to act as buffer and to collect the incoming raw effluent that comes at widely fluctuating rates and position to the rest of the ETP at steady (Average) flow rate.

During the peak hours ETP comes at high flow rate. The equalization tank stores this effluent and lets it out during the non-peak time when there is no /little incoming effluent.

#### **(D) Primary Clarifier**

Used for recovery of suspended solids from the effluent. It help in the solids liquid separation of the effluent.

#### **(E) Aeration Tank-**

Aeration is the most critical component of a treatment system using the activated sludge process. A well designed aeration system has a direct impact on the level of wastewater treatment it achieves. Aeration provides oxygen to bacteria for treating and stabilizing the wastewater.

Microorganism such as bacteria and protozoa can use the small particles and dissolved organic matter, not removed in primary treatment, as food. Biological treatment is performed in a tank containing a “soup” of starved microbes called activated sludge. These microbes require air to live (they are aerobic organisms) and thus air is pumped into the tank via diffused aeration system. Microorganisms in this aeration tank use the dissolved and particulate organic matter as food, producing more organisms. Thus the waste materials that left the primary clarifier are changed into microorganisms which can be collected and separated from the next step.

Oxygen is needed by the bacteria to allow biodegradation to occur. The supplied oxygen is utilized by bacteria in the wastewater to break down the organic matter containing carbon to form carbon dioxide and water. Without the presence of sufficient oxygen, bacteria are not able to biodegrade the incoming organic matter in a reasonable time.

In the absence of dissolved oxygen, degradation must occur under septic conditions which are slow, odorous, and yield incomplete conversions of pollutants. During this process a mass of biologically active flocks called Activated Sludge is formed.

#### **(F) Secondary Clarifier:**

A circular basin in which effluent from the activated sludge process is held for a period of time during which the heavier biomass (microorganisms) settles to the bottom as “*activated sludge*” This sludge, teaming with hungry microorganisms, can be returned to the aeration basin to begin the activated sludge treatment process all over again.

Secondary clarifier built with mechanical means for continuous recycling of Activated Sludge. Clarifiers work on the principle of gravity settling. The heavier suspended solids settle in the clarifier due to the quiescent conditions provided in the Clarification zone. Settled culture from secondary tank will be recycled to Aeration to maintain the MLSS in aeration tank.

### **(G) Sludge drying Beds:**

Sludge is a residual, semi-solid by-product left from industrial or refining processes. It is a separated solid suspended in a liquid, typically containing major quantities of interstitial water between its solid particles.

A sludge drying bed is a common method utilized to dewater sludge via filtration and evaporation. Perforated drains situated at the bottom of the bed are used to drain seepage water or filtrate. A reduction of about 35% or less in moisture content is expected after drying

Sludge drying beds are provided to allow surplus sludge that is withdrawn from the process to dry for easier handling. Sludge drying relies on an underground drainage system as well as sunshine. Liquid from the under drains should be returned to the effluent treatment process for further treatment. Sludge drying beds are usually situated beside treatment plants to readily receive and treat incoming sludge coming from primary or secondary treatment facilities.

A sludge drying bed usually consists of a bottom layer of gravel of uniform size over which is laid a bed of clean sand. Open jointed the under drains are laid in the gravel layer to provide positive drainage as the liquid passes through the sand and gravel. Under drains are made of vitrified clay pipes or tiles. Laid with open joint. The sludge should be deposited evenly to a depth of not greater than 20 cm. when digested sludge is deposited on a well-drained bed of sand. The major portion of liquid drains off in a few hours after which drying commences by evaporation .this produces cracks in sludge cake. In about 2 to 3 weeks sludge cake dries up completely with 20% to 40% volume reduction and can be removed.

Dried or treated sludge offers a wide range of applications, mainly including agricultural land application. When the drying is completed to produce bio-solids, these biosolids act as a fertilizer for crop harvesting. The organic nitrogen and phosphorous found in biosolids are used quite efficiently by crops as these plant nutrients are released slowly throughout the growing season. This allows the crop to absorb these nutrients as the crop grows. Besides the application of crop harvesting, the treated sludge can also be used as top dressing on golf course fairways, soil conditioner for construction of parks, and other athletic fields, a soil substitute in final landfill cover, etc.

### **(H) Tertiary Treatment Plant:**

#### **1- Pressure Sand Filter-**

To removes TSS and any other pollutants in the form of particle. This filter is also useful to protect the Activated Carbon Filter (ACF) from overloading by pollutants such as particulates, organics.

#### **2- Activated Carbon Filter-**

Carbon adsorption is a proven process in tertiary treatment for the processing biologically treated wastewaters, and is one of the many processes used in the advanced treatment of wastewaters. The ACF is used to remove relatively small quantities of refractory organics, as well as inorganic such as sulphides and heavy metals remaining in an otherwise well-treated wastewater.

### **Sanitary and Domestic Disposal**

The domestic and Sanitary effluent is being treated into septic tank and Discharged into Soak pit.

**PART – I**  
**Any other Particulars in respect of Environmental protection and abatement of Pollution**

- (1) We are complying all the suggestions given by the UPPCB and Getting regular Water and Air consent from UPPCB.
- (2) Plantation are being done regularly.
- (3) Regular Monitoring of Noise , Waste water and stack gases are being done as per the table given below.

Sr. No.	Process /Unit	Sampling Point	Parameter Analyzed	Frequency of Sampling
<b>Waste water treatment plant</b>				
1.	Screen	Outlet & inlet	Floating Material	Weekly
2.	Oil & grease Trap	Outlet and Inlet	Oil & grease	Weekly
3.	Equalization Tank	Outlet	pH, T.S.S	Daily Once
4.	Primary Clarifier	Outlet	T.S.S	Daily Once
5.	Aerobic Lagoon	Outlet	BOD, MLSS, pH	Weekly
6.	Final Clarifier	Outlet	BOD, COD, DO, pH	Weekly
<b>Air Pollution Control Device</b>				
7.	Wet Scrubber	Stack	P.M.	Continuously
<b>Noise Level Monitoring</b>				
8.	At the different points of the sources and Nearby areas	Noise Level		Weekly

# **Consent to Operate for Air and Water**





**UTTAR PRADESH POLLUTION CONTROL BOARD**  
**Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010**

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

**CONSENT ORDER**

**Ref No. - 141511/UPPCB/Lucknow(UPPCBRO)/CTO/air/LAKHIMPUR KHIRI/2021**

**Dated : 28/12/2021**

**To ,**

Shri GOBIND SUGAR MILLS LIMITED SUGAR DIVISION  
M/s GOBIND SUGAR MILLS LIMITED SUGAR DIVISION  
AIRA ESTATE, KHAMARIA PANDIT,LAKHIMPUR KHIRI,LAKHIMPUR KHIRI,262722  
LAKHIMPUR KHIRI

**Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. GOBIND SUGAR MILLS LIMITED SUGAR DIVISION**

Reference Application No. 14035923

Dated : 28/12/2021

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

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

PRAMOD KUMAR AGRAWAL  
Digitally signed by PRAMOD KUMAR AGRAWAL  
Date: 2021.12.28 11:17:06 +05'30'  
**Chief Environmental Officer, Circle-5.**

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

Copy to: Regional Officer, UPPCB, Lucknow.

PRAMOD KUMAR AGRAWAL  
Digitally signed by PRAMOD KUMAR AGRAWAL  
Date: 2021.12.28 11:17:32 +05'30'  
**Chief Environmental Officer, Circle-5.**

## U.P. Pollution Control Board

Dated : 28/12/2021

### CONDITIONS OF CONSENT

1. This consent is valid for the approved production capacity of cane crushing Sugar by crushing sugar cane 10,000 TCD and 39.7 Megawatt Co-generation Power Plant .
2. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
- 3(a) The maximum rate of emission of flue gas should not be more than the emission norms for the stacks.
- 3(b) . Air Pollution Source Details.

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	01 nos. Boiler (capacity of 150.0 TPH)	Bagasse	1	Particulate Matter	72 meter from GL
2	01 nos. Boiler (capacity of 70.0 TPH)	Bagasse	2	Particulate Matter	40 meter from GL
3	625 KVA DG set	Diesel	3	Particulate Matter	As specified in EPA, 1986
4	625 KVA DG set	Diesel	4	Particulate Matter	As specified in EPA, 1986
5	625 KVA DG set	Diesel	5	Particulate Matter	As specified in EPA, 1986

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

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	1	Particulate Matter	150 mg/Nm <sup>3</sup>
2	2	Particulate Matter	150 mg/Nm <sup>3</sup>

4. The industry should be operated in such a manner that it does not adversely affect the environment and the solid waste generated such as ash etc. is disposed in eco friendly manner .
5. Any source of emission other than that mentioned in the Air consent seeking application will not be permitted by the Board .
6. The industry should ensure the operation of the air pollution control system (APCS) in such a manner that the air emission conforms with the standards prescribed under the E.P Act 1986 as amended.
7. The industry shall submit Environmental Statement in prescribed format as per rule no.14 as per E.P Rules 1986 .
8. The industry shall abide by orders / directions issued by Hon'ble Supreme court Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time .
9. Industry shall submit monthly monitoring reports of all stacks and ambient air quality from a certified / approved laboratory under E.P. Act 1986 .
10. The industry shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.
11. The industry will ensure the continuous and uninterrupted data supply from the OCEEMS to the CPCB and SPCB .

- 12 . The unit shall submit audited balance sheet for the current year and the details of fees deposited during last three years within a month failing which consent would be deemed void.
- 13 . The use of Pet coke and Furnace oil as a fuel in the factory is restricted in compliance of the Hon'ble Supreme court order .
- 14 . The Industry will use minimum 20% Bio Briquette as fuel in the Boiler depending upon its availability .
- 15 . The industry shall obtain prior consents in the event of any addition of new emission generation sources such as- Boiler/ Furnace/ Heaters/ D.G. Sets or alteration of existing emission sources in accordance with section- 21/22 of air Act 1981 (as amended respectively).
- 16 . Minimum 33% of the land on which industry is established will be covered and properly maintained by the plantation of tall trees of suitable species as per the guidelines set up by the Board vide its Office Order no.H-16405/220/2018/02 dt. 16/02/2018. The copy of this guideline is available at URL [http://www.uppcb.com/pdf/Green-Belt-Guidle\\_160218.pdf](http://www.uppcb.com/pdf/Green-Belt-Guidle_160218.pdf) .
- 17 . If closure order is issued by CPCB or UPPCB against the unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective with additional conditions mentioned in the closure revocation order .
- 18 . Industry shall abide by the directions given by Hon'ble Court, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time .

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

1. This consent is valid for the production of Sugar by crushing sugar cane- 10,000 TCD and 39.70 Megawatt Co-generation Power Plant.
2. The analysis report of flue gas emission, and ambient air quality shall be submitted on quarterly basis.
3. The industry shall ensure the proper operation and maintenance of the air pollution control system (wet scrubber) in such a manner that the air emission confirms with the standards prescribed under the E.P Act 1986 as amended.
4. The industry shall ensure comply with the provisions of charter on Sugar industry and industry shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
5. Industry shall operate and maintain installed APCS (ESP and wet scrubber attached with the boilers of capacity 150.0 TPH and 70 TPH) effectively and Stack monitoring report shall be submitted on quarterly basis.
6. Stack heights of all the DG sets (capacities of 3X625 KVA) should be kept as per the prescribed norms under E.P. Act, 1986 and all the DG sets shall be in acoustic enclosure.
7. Industry shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so the Consent fee payable by the industry may be verified.
8. The operation of industry shall be in such a manner that no any adverse impact on the environment and public in surrounding.
9. Industry shall develop green belt as per the protocol attached with the board's office order no. H16405/220/2018/02 dated 16-02-2018 which is available on board's website.
10. Effective operation & maintenance of all installed air pollution control equipment shall be done so that emission meets the norms/standards of CPCB and Industry shall be operated in such a manner that ambient air quality should not be adversely affected.
11. Fly Ash content shall be used for low lying industry own land filling in a scientific manner that ambient air quality near by the industry should not be adversely affected.
12. The industry shall follow the directions issued by the Ministry of Environment Forest and Climate Change, Delhi vide Notification no. GSR 35(E) dated 14/01/2016.
13. The industry shall be operated in such a manner that it does not adversely affect the environment and the solid waste generated such as ash etc. is disposed in Eco friendly manner.
14. Arrangements for collection, segregation, storage, handling and disposal of solid Waste including garbage shall be provided and maintained properly.
15. Any new source of emission other than that mentioned in the Air consent seeking application will not be permitted by the Board. The unit shall obtain prior consents in the event of any addition of new emission generation sources such as- Boiler/ Furnace/ Heaters/ D.G. Sets or alteration of existing emission sources in accordance with section- 21/22 of air Act 1981 (as amended respectively).
16. The industry shall ensure to submit within 01 month a proposal, along with relevant land ownership documents, for safe disposal of boiler ash.
17. Solid waste generated from industries will not be allowed for open burning in the premises or around the industry's area as it is mandatory by the order of NGT.
18. The industry shall comply with the provisions of Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and

Transboundary Movement) Rules 2016 (Whichever is applicable).

19. The units must ensure to deposit the balance CTO (Air) fee of Rs. 50,000/-, in compliance to the condition mentioned at serial no. 19 of previous CTO issued dated 11.3.2020.

20. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

**Issued with the permission of competent authority .**

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

PRAMOD KUMAR

AGRAWAL

Digitally signed by PRAMOD KUMAR

AGRAWAL

Date: 2021.12.28 11:17:51 +05'30'

**Chief Environmental Officer, Circle-5.**



**UTTAR PRADESH POLLUTION CONTROL BOARD**  
**Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010**  
Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

**CONSENT ORDER**

**Ref No. - 141503/UPPCB/Lucknow(UPPCBRO)/CTO/water/LAKHIMPUR KHIRI/2021**

**Dated : 28/12/2021**

**To ,**

Shri GOBIND SUGAR MILLS LIMITED SUGAR DIVISION  
M/s GOBIND SUGAR MILLS LIMITED SUGAR DIVISION  
AIRA ESTATE, KHAMARIA PANDIT,LAKHIMPUR KHIRI,LAKHIMPUR KHIRI,262722  
LAKHIMPUR KHIRI

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

**Reference Application No :14034884**

**Dated :28/12/2021**

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

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

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

PRAMOD KUMAR AGRAWAL  
Chief Environmental Officer, Circle 5, UPPCB.

Digitally signed by PRAMOD KUMAR AGRAWAL  
Date: 2021.12.28 10:55:05 +05'30'

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

Copy to: Regional Officer, UPPCB, Lucknow.

PRAMOD KUMAR AGRAWAL  
Chief Environmental Officer, Circle 5, UPPCB.

Digitally signed by PRAMOD KUMAR  
AGRAWAL  
Date: 2021.12.28 10:55:05 +05'30'



## U.P. POLLUTION CONTROL BOARD, LUCKNOW

### Annexure to Consent issued to M/s.GOBIND SUGAR MILLS LIMITED SUGAR DIVISION vide

Consent Order No. 14034884/ Water

Dated : 28/12/2021

#### CONDITIONS OF CONSENT

1. This consent is valid for the approved production capacity of Sugar by crushing sugar cane 10,000 TCD and 39.7 Megawatt Co-generation Power Plant .
2. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
3. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	160 KLD	Septic Tank
2	Industrial	2000 KLD	ETP

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

Domestic Effluent		
S.No	Parameter	Standard

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

Industrial Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	30 mg/l
2	BOD	30 mg/l
3	COD	250 mg/l
4	Oil & Grease	10 mg/l

- 4(c) Loading Rates for different soil textures.

S.No	Soil Texture	Loading rate in m <sup>3</sup> /Ha/Day
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5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Rules, 1986 or otherwise mandatory.
6. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/ standards prescribed under the Environment (Protection) Act, 1986.
7. The industry shall establish the cooling arrangement and polishing tank for recycling the excess condensate water to process or utilities or allied units.
8. Effluent Treatment Plant to be stabilized one month prior to the start of the crushing season and continue to operate one month after the crushing season.



9. During no demand period for irrigation, the treated effluent to be stored in a seepage proof lined pond having 15 days holding capacity only.
10. The industry shall implement treated effluent flow distribution measurement for irrigation purposes completely in accordance with irrigation plan.
11. The impact of treated effluent application on land is to be included further in E.I.A. studies, involving ground water monitoring point identified in close proximity to the unit.
12. The industry will have to ensure compliance of the permission from the CGWA before ground water extraction and it will be the responsibility of the industry to comply with the various conditions of the permission taken.
13. The industry shall submit Environmental Statement in prescribed form V rule no.14 of E.P Rules 1986.
14. The industry shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.
15. Minimum 33% of the land on which unit is established will be covered and properly maintained by the plantation of tall trees of suitable species as per the guidelines set up by the Board vide its Office Order no.H-16405/220/2018/02 dt. 16/02/2018. The copy of this guideline is available at URL [http://www.uppcb.com/pdf/Green-Belt-Guidle\\_160218.pdf](http://www.uppcb.com/pdf/Green-Belt-Guidle_160218.pdf).
16. The industry will ensure the continuous and uninterrupted data supply from the OCEEMS to the CPCB and SPCB .
17. Flow meter to be installed in all water abstraction points and usage of fresh water to be minimized. The unit will ensure facility to transmit data to CPCB server and submit a regular calibration certificate of Electro Magnetic Flow meter to the Board.
18. If closure order is issued by CPCB or UPPCB against the unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective with additional conditions mentioned in the closure revocation order.
19. Industry shall abide by the directions given by Hon'ble Court, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.
20. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

**Specific Conditions:**

1. This consent is valid for the production of Sugar by crushing Sugar cane- 10,000 TCD and 39.7 Megawatt Co-generation Power.
2. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
3. The industry shall treat industrial effluent through ETP in such manner, so that quality of treated effluent meets the prescribed standards.
4. The industry shall ensure continuous operation of ETP in non crushing season of sugar unit.
5. The industry shall maintain and operate the ETP properly and the treated effluent/sewage shall be recycled and used for irrigation and shall ensure that no treated effluent is discharged in any surface water body.
6. The industry shall ensure to maintain and operate the PTZ webcam on the aeration tanks and at the final outlet of ETP.
7. The industry shall ensure regular operation of water flow meter at ETP outlet.
8. During no demand period for irrigation, the treated effluent shall be stored in a seepage proof lined pond having 15 days holding capacity and should be red marked at free Board.
9. The industry shall ensure to operate and maintain the online Continuous Effluent Monitoring System regularly.
10. The industry shall ensure to install the STP of adequate capacity for treatment of domestic waste water and submit a time bound program in this office within a month.
11. The industry shall follow the directions issued by the Ministry of Environment Forest and Climate Change, Delhi vide Notification no. GSR 35(E) dated 14/01/2016.
12. The industry shall be submit irrigation plan as per the protocol within one month.
13. The industry shall submit to proposal for installation of flow meter to ensure recycled condensate from sugar cane juice and cooling tower within 01 month.
14. The industry shall comply with the conditions as imposed in NOC from CGWA issued dated 28.02.2020.
15. The Order issued by Hon'ble Courts/Hon'ble NGT, MOEF, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
16. Generated hazardous waste shall be stored temporarily in the factory premises and disposed off through authorized TSDF after obtaining the authorization from the Board.
17. Industry shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so the Consent fee payable by the industry may be verified.
18. Install Electromagnetic Pizo Meter at each point of water supply source and at effluent discharge point and ensure to timely send meter reading to department on monthly basis.
19. The industry shall comply with the provisions of Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
20. Industry shall develop green belt as per the Protocol attached with Board's office order H 16405 /220/2018/02 dated 16-2-2018, which is available on Board's website- [www.uppcb.com](http://www.uppcb.com).
21. The unit must submit within 01 month a proposal in the Board for installation of Sewage Treatment Plant for treatment of domestic sewage.

22. Conditions for Molasses Storage:

- i. The molasses shall be properly collected and stored in steel tank which shall be leak proof. At no stage of handling of molasses, there shall be leakage or spillage.
- ii. The capacity of tank for storage of molasses shall be such that it will take care of bumper production of sugar, non-lifting of molasses etc.
- iii. All the area on which molasses are stored and handled should be provided with drain for diverting the spills to the treatment plant/molasses tank. Suitable arrangements for accidental discharges of molasses from the tank shall be provided to contain the same within factory premises.
- iv. Destruction of molasses and its disposal shall not be done without specific permission in writing from the authorized officer of the Board. Intimation of intention to destroy or dispose of the molasses shall be given to the Board at least 15 days in advance by registered post under intimation to the Board.
- v. The storage tanks shall be kept in good conditions all the year around with adequate maintenance. The tanks size and capacity per cm, height, total capacity in tones shall be displayed prominently near/on the tank.

23. Operation of ETP shall be started at least one month before starting of cane crushing to achieve desired MLSS. So as to meet prescribed standards from day one the operation of mill.

24. Industry shall maintain flow meter at the Final Outlet of ETP and maintain a logbook to record its readings.

25. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

26. The industry shall ensure polluted water is not discharged into any stream so that the quality of Sharda river water is not adversely affected.

27. Industry to keep minimum number of fresh water taps in the sugar mill to reduce loss of water.

28. All pipe lines and vessels should be properly insulated to reduce steam consumption and water loss.

29. The unit must ensure compliance of the instruction given to it vide Board's letter H 61846/C-5/L/Jal/01/2021 dated 17.5.2021 regarding installation of Sulphate removal system.

30. The units must ensure to deposit the balance CTO (Water) fee of Rs. 50,000/-, in compliance to letter issued by Head Office ref. no. H 50937/C-5/L/Jal-1/2020 dated 14.7.2020, due towards renewal of previous CTO (water).

31. If closure order is issued by CPCB or UPPCB against the unit, then this CTO issued will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

**Issued with the permission of competent authority .**

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

**PRAMOD KUMAR  
AGRAWAL**

**Chief Environmental Officer, Circle-5, UPPCB.**

Digitally signed by PRAMOD  
KUMAR AGRAWAL

# **Hazardous Authorization**



# UTTAR PRADESH POLLUTION CONTROL BOARD

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

**Ref. No : 6230/UPPCB/Lucknow(UPPCBRO)/HWM/LAKHIMPUR KHIRI/2018 Dated: 14/03/2019**

To,

M/s GOBIND SUGAR MILLS LIMITED SUGAR DIVISION  
AIRA ESTATE, KHAMARIA PANDIT, LAKHIMPUR KHIRI, 262722  
Tehsil : Dhaurahara  
District : LAKHIMPUR KHIRI

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

1. Number of authorization and date of issue 6230 and 14/03/2019 .
2. Reference of application (No. and date) 3801305 and 10/12/2018 .
3. Mr ALOK SAXENA of M/s GOBIND SUGAR MILLS LIMITED SUGAR DIVISION is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, utilization, storage and disposal or any other use of hazardous or other wastes or both on the premises situated at AIRA ESTATE, KHAMARIA PANDIT, LAKHIMPUR KHIRI .

### Details of Authorisation

S No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing, etc.	Quantity(ton/annum)
1	Sch-1, Cat.-35.4 (Oil and grease skimming)	Mixed with Bagasse and burnt in boiler	5.0 Ton/annum

1. The authorization shall be valid for a period of 20/03/2024 from the date of issue of this letter .
2. The authorization is subject to the following general and specific conditions (please specify any conditions that need to be imposed over and above general conditions, if any) .

### A General Conditions of Authorization -

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under .
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Board .
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization .
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation .
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time .
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and penalty .

7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility .
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation .
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained .
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation .
11. The importer or exporter shall bear the cost of Import or export and mitigation of damages if any
12. An application for the renewal of an authorisation shall be made as laid down under these Rules .
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Changes or Central Pollution Control Board from time to time .
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year .

## **B Specific Conditions of Authorization**

### **Hazardous Conditions**

1. The authorization shall be valid for a period of Five Years from the date of issue, if not suspended or cancelled earlier.
2. The wastes must be safely collected in leak proof containers and shall be duly marked in a manner suitable for handling, storage and transport and the packaging shall be easily visible and be able to withstand physical conditions and climatic factors. All hazardous waste containers / bags shall be provided with a general label. The storage area should be at an isolated spot in the premises and must be fenced, covered and duly marked.
3. The authorized person/agency shall ensure that no adverse impact on the air, soil and water including groundwater takes place due to activities for which authorization has been requested. Comprehensive safety measures must be followed in handling of wastes and the staff must be properly trained.
4. It is brought to your notice that as per the order dated 14-11-2003 passed by the Hon'ble Supreme Court in W.P. (c) No. 657 of 1995, no industry covered under Hazardous and other Wastes (Management and Tran boundary Movement) Rules, 2016 shall be allowed to operate without valid authorization. It is also provided in the same orders that industries which are not complying with the conditions of authorization shall not be allowed to operate. Hence in case you fail to apply for authorization, before its expiry or fail to comply with conditions of the earlier authorization issued to you, closure order shall be issued against your industry without any further notice.
5. The applicant must file returns on prescribed Form- 4 along with a compliance report of this letter and should also maintain records on Form 3 and present it to Board's inspecting officials.
6. In case of occurrence of an accident, complete details on form must be sent to U.P. Pollution Control Board at the earliest along with details of mitigative and remedial measures taken.

7. The authorized person/agency shall not receive, collect, or store any hazardous waste from any unauthorized occupier or generator of hazardous wastes. In case any hazardous wastes is sold to any other reprocessing unit it must be ensured that such unit is fully complying with environmental requirements and has a valid authorization of the Board.

8. In no case any hazardous wastes shall be disposed off on land, in any drain or stream. All spillages of hazardous chemicals, used containers, of hazardous chemicals such as flammable corrosive, explosive and toxic nature must be safely collected and stored. Non-compatible wastes must be suitably and safely handled.

9. It is within the powers and functions of the U.P. Pollution Control Board to modify / revoke the terms and conditions of the authorization/Registration issued under the Rule – 7 of Hazardous and Other Wastes (Management and Tran boundary Movement) Rules, 2016.

10. You are directed to display on-line data/display board outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises. Necessary compliance should be sent within 15 days of receipt of this letter.

11. It is the mandatory duty of the authorized person/agency to comply with the guidelines for transportation of hazardous waste in accordance with rule 18 of Hazardous and Other Waste (Management and Tran boundary Movement) Rules, 2016.

12. It should be ensured that hazardous wastes shall be properly collected and packed in HDPE bags and then temporarily stored in a lined RCC tank/pit with suitable shed.

13. An ETP sludge test report of a laboratory approved under E.P. Act shall be submitted along with compliance of this letter of this office.

14. Used oil shall be sold only to recyclers registered with U.P. Pollution Control Board. The record shall be maintained.

15. The occupier, transporter and operator of a facility shall be liable for damages caused to the environment resulting due to improper handling and disposal of hazardous waste listed in schedule 1,2, and 3 and shall be liable to pay a fine as levied by the State Pollution Control Board under the rules.

16. Details of raw material (which is Hazardous waste) and product along with quantity shall be sent within a month.

17. You shall become the member of any common TSDF for S.L.F. which has been authorized by UPPCB and send the stored hazardous wastes for final disposal to the TSDF and report back to U.P.P.C.B. with the required manifesto (document of proof) within one/three month of this letter.

18. The unit shall ensure that H.W. is regularly sent to Authorized common TSDF and shall not store for more than 90 days in accordance with under rule 8 of HOWM Rules, 2016.

19. Emission from the Common/Captive incinerator stack shall meet the prescribed standards under

Environmental Protection Act, 1986.

20. Copies of Hazardous Waste Manifest in Form-10 shall be sent regularly to UPPCB for each category of waste sent to TSDF/Incinerator.

21. This authorization/Registration is valid till the industry is having valid consent as per the provisions of Air(Prevention and Control of Pollution) Act 1981 and Water (Prevention and Control of Pollution) Act, 1974.

22. Industry shall comply the provisions of EP Act, 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended and E-waste (Management and Handling) Rules, 2016.

23. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

**( Authorized Signatory )**

PRAMOD KUMAR  
AGARWAL

Digitally signed by PRAMOD  
KUMAR AGARWAL  
Date: 2019.03.27 16:24:02 +05'30'

**UTTAR PRADESH POLLUTION CONTROL BOARD**

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

PRAMOD KUMAR  
AGARWAL

Digitally signed by PRAMOD KUMA  
AGARWAL  
Date: 2019.03.27 16:24:16 +05'30'

**CEO/EE, I/C Circle**



# Test Reports



# ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/261, Vishwas Khand, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etrcindia.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986

ETRC/PM14/TEs-REP/FT/36

## TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT STACK No. 01

<b>Test Report Ref No.:</b> ETRC/EPA/5648/2022		<b>Date of Report:</b> 27.01.2022
<b>Name /Address/Type of Industry</b>		<b>M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate, Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722</b>
<b>Monitored by</b>		<b>ETRC, Lucknow</b>
<b>Sr. No.</b>	<b>GENERAL INFORMATION</b>	<b>DETAILS</b>
1.(a)	Date of monitoring	24.01.2022
(b)	Stack material	MS
(c)	Height of stack from ground level	40 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 No., 70 TPH
(f)	Type and quantity of fuel used	Bagasse
(g)	Details of APCS installed	Wet Scrubber
2.	<b>PARAMETERS</b>	<b>VALUES</b>
(a)	Ambient temperature (°C)	19.0
(b)	Stack gas temperature (°C)	127.0
(c)	Stack gas velocity (m/sec)	11.12
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	66
(f)	Volume of air sampled (liters)	1056

### TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing / Limit of Detection	Standard (as per CPCB)
1	Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	81.2	2.0 - 1000	150

..... END OF REPORT.....

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that this data reflects our best attempt to generate accurate results for the sample, mentioned in the report as above.
- The result relate only to the items tested.
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- Complain register is available in our laboratory.

  
Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



  
Authorized Signatory  
(Ritu Garg)  
QM



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ETRC/PM14/TES-REP/FT/36

## TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT STACK No. 02

<b>Test Report Ref No.:</b> ETRC/EPA/5649/2022		<b>Date of Report:</b> 27.01.2022
<b>Name /Address/Type of Industry</b>		<b>M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate, Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722</b>
<b>Monitored by</b>		<b>ETRC, Lucknow</b>
<b>Sr. No.</b>	<b>GENERAL INFORMATION</b>	<b>DETAILS</b>
1.(a)	Date of monitoring	24.01.2022
(b)	Stack material	RCC
(c)	Height of stack from ground level	72 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 Nos., 150 TPH
(f)	Type and quantity of fuel used	Bagasse
(g)	Details of APCS installed	ESP
2.	<b>PARAMETERS</b>	<b>VALUES</b>
(a)	Ambient temperature (°C)	18.0
(b)	Stack gas temperature (°C)	126.0
(c)	Stack gas velocity (m/sec)	11.43
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	65
(f)	Volume of air sampled (liters)	1040

### TEST RESULT


Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing / Limit of Detection	Standard (as per CPCB)
1	Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	82.8	2.0 - 1000	150

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Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



  
Authorized Signatory  
(Ritu Garg)  
QM



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## TEST REPORT AMBIENT NOISE MONITORING AND ANALYSIS REPORT

<b>Test Report Ref No.:</b> ETRC/EPA/5650/2022		<b>Date of Report:</b> 27.01.2022
<b>Name /Address/Type of Industry</b>		<b>M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate, Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722</b>
<b>Monitored by</b>		<b>ETRC, Lucknow</b>
<b>Sr. No.</b>	<b>GENERAL INFORMATION</b>	<b>DETAILS</b>
(a)	Date of monitoring	23/01/2022 (6:00 AM) to 24/01/2022 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Parameter	Equivalent sound level
(d)	Environmental Condition	Normal

### TEST RESULT

Ambient Noise Level				
Sr. No.	Locations	Unit	Results	Results
			DAY TIME (6:00 AM - 10:00 PM)	NIGHT TIME (10:00 PM - 6:00 AM)
1	Near Main Gate	dB(A)	61.24	48.59


Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

..... END OF REPORT.....

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**(Sandeep Kr Verma)**  
Lab-Incharge



  
**Authorized Signatory**  
**(Ritu Garg)**  
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ETRC/PM14/TEST-REP/FT/37

## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

<b>Test Report Ref No.:</b> ETRC/EPA/5694/2022		<b>Date of Report:</b> 31.01.2022	
<b>Name /Address/Type of Industry</b>		<b>M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate, Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722</b>	
<b>Monitored by</b>		<b>ETRC, Lucknow</b>	
<b>Location of Sampling points</b>		<b>Near Main Gate (Factory Premises)</b>	
<b>Sr. No.</b>	<b>GENERAL OBSERVATIONS</b>	<b>DETAILS-PM<sub>10</sub></b>	<b>DETAILS-PM<sub>2.5</sub></b>
1 (a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	56	56
(d)	Average ambient temperature (°C)	20	20
(e)	Time of Sampling Started (Hours)	08:16 am (24.01.2022)	08:16 am (24.01.2022)
(f)	Time of Sampling completed (Hours)	08:12 am (25.01.2022)	08:12 am (25.01.2022)
(g)	Total time of sampling (Minutes)	24 hour (1423 minutes)	24 hour (1423 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.145	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	<b>TOTAL VOLUME OF AIR SAMPLED</b>		
	• PM	• 1629.564	• 23.719
	• GAS	• 711.6	

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	88.5	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	IS: 5182 (Part-24): 2019	µg/m <sup>3</sup>	50.17	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	14.03	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	20.85	6.0 - 750	For 24 hour =80

..... END OF REPORT.....

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Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



  
Authorized Signatory  
(Ritu Garg)  
QM



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ETRC/PM14/TES-REP/FT/37

## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/5695/2022		Date of Report: 31.01.2022	
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate, Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Allipur	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1 (a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	56	56
(d)	Average ambient temperature (°C)	20	20
(e)	Time of Sampling Started (Hours)	08:35 am (24.01.2022)	08:35 am (24.01.2022)
(f)	Time of Sampling completed (Hours)	08:19 am (25.01.2022)	08:19 am (25.01.2022)
(g)	Total time of sampling (Minutes)	24 hour (1421 minutes)	24 hour (1421 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.140	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM	• 1620.396	• 23.692
	• GAS	• 710.7	

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	79.8	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	IS: 5182 (Part-24): 2019	µg/m <sup>3</sup>	49.38	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	12.15	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	17.46	6.0 - 750	For 24 hour =80

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Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



  
Authorized Signatory  
(Ritu Garg)  
QM



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ETRC/PM14/TEST-REP/FT/37

## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/5696/2022		Date of Report: 31.01.2022	
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate, Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Khamaria Pandit	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1 (a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	56	56
(d)	Average ambient temperature (°C)	20	20
(e)	Time of Sampling Started (Hours)	08:50 am (24.01.2022)	08:50 am (24.01.2022)
(f)	Time of Sampling completed (Hours)	08:29 am (25.01.2022)	08:29 am (25.01.2022)
(g)	Total time of sampling (Minutes)	24 hour (1429 minutes)	24 hour (1429 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.165	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM	• 1665.018	• 23.816
	• GAS	• 714.6	

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	80.8	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	IS: 5182 (Part-24): 2019	µg/m <sup>3</sup>	48.29	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	13.14	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	18.52	6.0 - 750	For 24 hour =80

..... END OF REPORT.....

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Lab-Incharge



  
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(Ritu Garg)  
QM



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ETRC/PM14/TEST-REP/FT/37

## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/5697/2022		Date of Report: 31.01.2022	
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate, Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Aira	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1 (a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	56	56
(d)	Average ambient temperature (°C)	20	20
(e)	Time of Sampling Started (Hours)	09:05 am (24.01.2022)	09:05 am (24.01.2022)
(f)	Time of Sampling completed (Hours)	08:50 am (25.01.2022)	08:50 am (25.01.2022)
(g)	Total time of sampling (Minutes)	24 hour (1427 minutes)	24 hour (1427 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.155	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM	• 1647.954	• 23.782
	• GAS	• 713.4	

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	80.5	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	IS: 5182 (Part-24): 2019	µg/m <sup>3</sup>	44.15	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	12.06	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	17.42	6.0 - 750	For 24 hour =80

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Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



  
Authorized Signatory  
(Ritu Garg)  
QM





# ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

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ETRC/PM14/TEST-REP/FT/37

## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/4100/2021		Date of Report : 23.02.2021	
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Unit: Sugar Khamaria Pandit District: Lakhimpur Kheri (U.P.)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate (Factory Premises)	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1 (a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	53	53
(d)	Average ambient temperature (°C)	21	21
(e)	Time of Sampling Started (Hours)	10:34 am (16.02.2021)	10:34 am (16.02.2021)
(f)	Time of Sampling completed (Hours)	10:03 am (17.02.2021)	10:03 am (17.02.2021)
(g)	Total time of sampling (Minutes)	24 hour (1407 minutes)	24 hour (1407 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.105	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM	• 1554.735	• 23.454
	• GAS	• 703.5	

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	93.4	12-1200
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	IS: 5182 (Part-24): 2019	µg/m <sup>3</sup>	53.30	12-500
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	14.03	6-1000
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	22.14	6-750

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(Sandeep Kr Verma)  
Lab-incharge



  
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(Ritu Garg)  
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ETRC/PM14/TEST-REP/FT/37

## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/4101/2021		Date of Report : 23.02.2021	
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Unit: Sugar Khamaria Pandit District: Lakhimpur Kheri (U.P.)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Allipur	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1 (a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	53	53
(d)	Average ambient temperature (°C)	21	21
(e)	Time of Sampling Started (Hours)	10:48 am (16.02.2021)	10:48 am (16.02.2021)
(f)	Time of Sampling completed (Hours)	10:23 am (17.02.2021)	10:23 am (17.02.2021)
(g)	Total time of sampling (Minutes)	24 hour (1403 minutes)	24 hour (1403 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.145	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM	• 1606.893	• 23.394
	• GAS	• 701.7	

### TEST RESULT


Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	80.5	12-1200
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	IS: 5182 (Part-24): 2019	µg/m <sup>3</sup>	43.17	12-500
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	12.73	6-1000
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	18.12	6-750

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## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/4102/2021		Date of Report : 23.02.2021	
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Unit: Sugar Khamaria Pandit District: Lakhimpur Kheri (U.P.)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Khamaria Pandit	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1 (a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	54	54
(d)	Average ambient temperature (°C)	23	23
(e)	Time of Sampling Started (Hours)	10:16 am (17.02.2021)	10:16 am (17.02.2021)
(f)	Time of Sampling completed (Hours)	10:05 am (18.02.2021)	10:05 am (18.02.2021)
(g)	Total time of sampling (Minutes)	24 hour (1418 minutes)	24 hour (1418 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.1	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM	• 1560.24	• 23.644
	• GAS	• 709.2	

### TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	82.0	12-1200
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	IS: 5182 (Part-24): 2019	µg/m <sup>3</sup>	41.03	12-500
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	11.98	6-1000
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	17.45	6-750

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(Sandeep Kr Verma)  
Lab-Incharge



  
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(Ritu Garg)  
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## TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/EPA/4103/2021		Date of Report : 23.02.2021	
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Unit: Sugar Khamaria Pandit District: Lakhimpur Kheri (U.P.)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Aira	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM <sub>10</sub>	DETAILS-PM <sub>2.5</sub>
1 (a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	54	54
(d)	Average ambient temperature (°C)	23	23
(e)	Time of Sampling Started (Hours)	10:41 am (17.02.2021)	10:41 am (17.02.2021)
(f)	Time of Sampling completed (Hours)	10:18 am (18.02.2021)	10:18 am (18.02.2021)
(g)	Total time of sampling (Minutes)	24 hour (1413 minutes)	24 hour (1413 minutes)
2	Average Air sampling rate for PM (m <sup>3</sup> /minute)	1.085	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM	• 1533.105	• 23.554
	• GAS	• 706.5	

### TEST RESULT

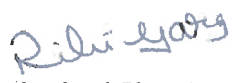
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection
1	Particulate matters size less than 10 µm (PM <sub>10</sub> )	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	76.1	12-1200
2	Particulate matters size less than 2.5 µm (PM <sub>2.5</sub> )	IS: 5182 (Part-24): 2019	µg/m <sup>3</sup>	39.91	12-500
3	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m <sup>3</sup>	12.03	6-1000
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m <sup>3</sup>	16.78	6-750

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ETRC/PM14/TES-REP/FT/36

## TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT STACK No. 01

Test Report Ref No.: ETRC/EPA/4104/2021		Date of Report : 23.02.2021
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Unit: Sugar Khamaria Pandit District: Lakhimpur Kheri (U.P.)
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	17.02.2021
(b)	Stack material	MS
(c)	Height of stack from ground level	40 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 No., 70 TPH
(f)	Type and quantity of fuel used	Bagasse
(g)	Details of APCS installed	Wet Scrubber
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	26.0
(b)	Stack gas temperature (°C)	128.0
(c)	Stack gas velocity (m/sec)	11.03
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	68
(f)	Volume of air sampled (liters)	1088

### TEST RESULT


Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing / Limit of Detection	Standard (as per CPCB)
1	Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	85.6	2 - 1000	150

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ETRC/PM14/TES-REP/FT/36

## TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT STACK No. 02

Test Report Ref No.: ETRC/EPA/4105/2021		Date of Report : 23.02.2021
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Unit: Sugar Khamaria Pandit District: Lakhimpur Kheri (U.P.)
Monitored by		ETRC, Lucknow
<b>Sr. No.</b>	<b>GENERAL INFORMATION</b>	<b>DETAILS</b>
1.(a)	Date of monitoring	17.02.2021
(b)	Stack material	RCC
(c)	Height of stack from ground level	72 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 Nos., 150 TPH
(f)	Type and quantity of fuel used	Bagasse
(g)	Details of APCS installed	ESP
<b>2.</b>	<b>PARAMETERS</b>	<b>VALUES</b>
(a)	Ambient temperature (°C)	25.0
(b)	Stack gas temperature (°C)	126.0
(c)	Stack gas velocity (m/sec)	11.68
(d)	Flow rate (LPM)	17
(e)	Sampling time (minutes)	65
(f)	Volume of air sampled (liters)	1105

### TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing / Limit of Detection	Standard (as per CPCB)
1	Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	86.4	2-1000	150

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## TEST REPORT AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No.: ETRC/EPA/4106/2021		Date of Report : 23.02.2021
Name /Address/Type of Industry		M/s Gobind Sugar Mills Limited Unit: Sugar Khamaria Pandit District: Lakhimpur Kheri (U.P.)
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
(a)	Date of monitoring	17/02/2021 (6:00 AM) to 18/02/2021 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Parameter	Equivalent sound level
(d)	Environmental Condition	Normal

### TEST RESULT

Ambient Noise Level				
Sr. No.	Locations	Unit	Results DAY TIME (6:00 AM - 10:00 PM)	Results NIGHT TIME (10:00 PM - 6:00 AM)
1	Near Main Gate	dB(A)	68.52	51.26


Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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ETRC/PM14/TEST-REP/FT/17

## TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/MW/2974/2022	Date of Report: 27.01.2022
Name /Address/Type of Industry	M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722

### SAMPLE DETAILS

1	Water/ Waste Water	Waste Water	5	Packing Condition	Sealed
2	Sample Description	ETP Inlet	6	Sample Collected By	Industry Self
3	Sample received date	20.01.2022	7	Analysis Start Date	20.01.2022
4	Sample Quantity	2.0 liters	8	Analysis End Date	24.01.2022

### TEST RESULT


Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	APHA 23 <sup>rd</sup> Ed. 2017-4500H <sup>+</sup>	4.6	1 - 14
2	Total Dissolved Solid (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	1622.4	10 - 40000
3	Total Suspended Solid (TSS)	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-2540 D	273.8	5.0 - 20000
4	Bio-chemical Oxygen Demand (BOD)	mg/l	IS: 3025 (Part-44): 1993 Reaffirmed: 2019	800.0	1.0 - 150000
5	Chemical Oxygen Demand (COD)	mg/l	IS: 3025 (Part-58): 2006 Reaffirmed: 2017	2464.0	2.0 - 600000

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ETRC/PM14/TES-REP/FT/17

## TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/MW/2975/2022	Date of Report: 27.01.2022
Name /Address/Type of Industry	M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722

### SAMPLE DETAILS

1	Water/ Waste Water	Waste Water	5	Packing Condition	Sealed
2	Sample Description	ETP Outlet	6	Sample Collected By	Industry Self
3	Sample received date	20.01.2022	7	Analysis Start Date	20.01.2022
4	Sample Quantity	2.0 liters	8	Analysis End Date	24.01.2022

### TEST RESULT


Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	APHA 23 <sup>rd</sup> Ed. 2017-4500H <sup>+</sup>	7.5	1 - 14
2	Total Dissolved Solid (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	863.8	10 - 40000
3	Total Suspended Solid (TSS)	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-2540 D	33.6	5.0 - 20000
4	Bio-chemical Oxygen Demand (BOD)	mg/l	IS: 3025 (Part-44): 1993 Reaffirmed: 2019	26.0	1.0 - 150000
5	Chemical Oxygen Demand (COD)	mg/l	IS: 3025 (Part-58): 2006 Reaffirmed: 2017	80.0	2.0 - 600000

..... END OF REPORT.....

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that this data reflects our best attempt to generate accurate results for the sample, mentioned in the report as above.
- The result relate only to the items tested.
- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results and/or the performance of the equipment constituting to the results.
- All disputes subject to Lucknow jurisdiction.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Complain register is available in our laboratory.

  
Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



  
Authorized Signatory  
(Ritu Garg)  
QM



# ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/261, Vishwas Khand, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etrccindia.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986

ETRC/PM14/TES-REP/FT/17

## TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/5311/2021	Date of Report : 02.12.2021
Name /Address/Type of Industry	M/s Gobind Sugar Mills (Sugar Division) Khamaria Pandit District: Lakhimpur Kheri (U.P.)

### SAMPLE DETAILS

1	Water/ Waste Water	Waste Water	5	Packing Condition	Sealed
2	Sample Description	ETP Outlet	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	29.11.2021	7	Analysis Start Date	29.11.2021
4	Sample Quantity	2.0 liters	8	Analysis End Date	02.12.2021

### TEST RESULT


Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	APHA 23 <sup>rd</sup> Ed. 2017-4500H <sup>+</sup>	7.4	1 - 14
2	Total Dissolved Solid (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	1242.8	10 - 40000
3	Total Suspended Solid (TSS)	mg/l	APHA 23 <sup>rd</sup> Ed 2017-2540 D	12.6	5.0 - 20000
4	Bio-chemical Oxygen Demand (BOD)	mg/l	IS: 3025 (Part-44): 1993 Reaffirmed: 2019	14.0	1.0 - 150000
5	Chemical Oxygen Demand (COD)	mg/l	IS: 3025 (Part-58): 2006 Reaffirmed: 2017	92.0	2.0 - 600000

..... END OF REPORT.....

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ETRC/PM14/TEST-REP/FT/17

## TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/WW/3143/2022	Date of Report: 31.03.2022
Name /Address/Type of Industry	M/s Gobind Sugar Mills Limited Sugar Division Village: Khamaria Pandit, Aira Estate Tehsil: Dhaurahra District: Lakhimpur Kheri (U.P.) - 262722

### SAMPLE DETAILS

1	Water/ Waste Water	Waste Water	5	Packing Condition	Sealed
2	Sample Description	ETP Inlet	6	Sample Collected By	Industry Self
3	Sample received date	16.03.2022	7	Analysis Start Date	16.03.2022
4	Sample Quantity	2.0 liters	8	Analysis End Date	22.03.2022

### TEST RESULT


Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	APHA 23 <sup>rd</sup> Ed. 2017-4500H <sup>+</sup>	3.8	1 - 14
2	Total Dissolved Solid (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	2352.0	10 - 40000
3	Total Suspended Solid (TSS)	mg/l	APHA 23 <sup>rd</sup> Ed. 2017-2540 D	173.8	5.0 - 20000
4	Bio-chemical Oxygen Demand (BOD)	mg/l	IS: 3025 (Part-44): 1993 Reaffirmed: 2019	1150.0	1.0 - 150000
5	Chemical Oxygen Demand (COD)	mg/l	IS: 3025 (Part-58): 2006 Reaffirmed: 2017	3808.0	2.0 - 600000

..... END OF REPORT.....

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Authorized Signatory  
(Sandeep Kr Verma)  
Lab-Incharge



  
Authorized Signatory  
(Ritu Garg)  
QM

# CGWA NOC



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

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	M/s Gobind Sugar Mills Ltd.		
Project Address:	M/s Gobind Sugar Mills Ltd. Village- Khamaria Pandit, Tehsil- Dhaurahra, District - Lakhimpur Kheri , Uttar Pradesh		
Village:	Khamaria Pandit	Block:	Isanagar
District:	Kheri	State:	Uttar Pradesh
Pin Code:	262722		
Communication Address:	Village- Khamaria Pandit, Tehsil- Dhaurahra, District - Lakhimpur Kheri , Kheri, Uttar Pradesh - 262722		
Address of CGWB Regional Office :	Central Ground Water Board Northern Region, Bhujal Bhavan, Sector-B Sitapur Road Yojna, Ram Ram Bank Chauraha, Lucknow, Uttar Pradesh - 226021		

1. NOC No.:	CGWA/NOC/IND/REN/1/2020/5692									
2. Application No.:	21-4/3872/UP/IND/2017			3. Category:	Industry					
4. Project Status:	Existing Project			5. NOC Type:	1st Renewal					
6. Valid from:	28/02/2020			7. Valid up to:	26/02/2023					
8. Ground Water Abstraction Permitted:										
Fresh Water		Saline Water		Dewatering		Total				
m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year			
3000.00	535000.00					3000.00	535000.00			
9. Details of ground water abstraction /Dewatering structures										
Total Existing No.:2					Total Proposed No.:0					
	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/harvesting(m <sup>3</sup> /year):	78244.00									
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)

**SUNIL KUMAR**  
Digitally signed  
by SUNIL KUMAR  
Date: 2020.09.08  
11:23:16 +05'30'

सदस्य (केन्द्रीय भूमि जल प्राधिकरण)  
Member (CGWA)

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

पानी बचाये - जीवन बचाये  
SAVE 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 new as well as existing ground water abstraction/ de-watering structures shall be fitted with digital water flow meters by the firm at its own cost immediately on completion of their construction or grant of NOC as the case may be. In case of renewal of NOCs, all existing ground water abstraction structures shall continue to be fitted with digital water flow meters. Intimation of installation of flow meters shall be sent by the proponent to the Regional Director of CGWB within 6 months of grant of NOC. 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, once every year.
4. In case the ground water abstraction is more than 10 m<sup>3</sup>/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 m<sup>3</sup>/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 m<sup>3</sup>/day, ground water quality shall be monitored once in a year (during pre- monsoon period) and the report submitted to the Regional Office, CGWB. Wherever the extraction is less than 10 m<sup>3</sup>/day, ground water quality report shall be submitted by the proponent at the time of submission of self-compliance report.
6. Ground water augmentation/harvesting measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the concerned Regional Director, CGWB.
7. Proof of recharge/water harvesting structures constructed (photographs of structures) shall be submitted to the concerned Regional Director, CGWB within 6 months from the date of issue of NOC. The firm shall also undertake periodic maintenance of recharge/water harvesting structures at its own cost.
8. 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.
9. In case of industries that are 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.
10. The firm shall optimize water use through recycling/ reuse of waste water after proper treatment.
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 concerned 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](http://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. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment(Protection)Act, 1986.
20. **In case of any violation of NOC conditions or illegal extraction of Ground water the firm shall be liable to pay "Environmental Compensation"/ "Penalty", if any under Sec 15 of EPA 1986as and when decided by statutory authorities.**

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