

ENVIRONMENTAL STATEMENT

OF

**GOBIND SUGAR MILLS LTD.
VILLAGE- KHAMARIA- PANDIT,
TEHSIL- DHAURAHRA
DISTRICT- LAKHIMPUR KHERI (UP)**

Financial Year 31st March 2017

Submitted by-

**GOBIND SUGAR MILLS LTD.
VILLAGE- KHAMARIA- PANDIT,
TEHSIL- DHAURAHRA
DISTRICT- LAKHIMPUR KHERI (U.P.)**

[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 programe 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 m³/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 previous 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 31st 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 13th March 1992, SI . 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 "15th day of May" the word the "30th day of September" shall be submitted.

(FORM – V)
(See Rule 14)

Environmental statement report for the financial year Ending
the 31st March 2016

PART – A

i	Name and Address of the Owner / Occupier of Industry operation or Process	GOBIND SUGAR MILLS LTD. VILLAGE- KHAMARIA- PANDIT, TEHSIL- DHAURAHRA DISTRICT- LAKHIMPUR KHERI (UP)
ii	Cane Crushing and Power Capacity of the Unit	10000 TCD and 39.7MW
iii	Year of establishment	Dec-2007
iv	Date of last Environmental statement submitted.	SEPT-2016
v	Industry Category Primary : (STC code) Secondary : (STC Code)	SECONDARY

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

	2015-2016	2016-2017
Date of Start of Plant	04/12/2015	12/11/2016
Date of Finish	07/04/2016	29/03/2017
Gross Season Days	125	137
Duration of Season Days	118	133
Total Cane Crushed (Tonne)	642638.4	912058.3
Total Sugar Made(T)	68537.0	93672.6
Total Molasses made(T)	33436.1	42597.5
Total bagasse Produced (T)	198189	267141.8
Total Filter Cake Produced(T)	26091	33198.9
Lime Consumed (T)	1265	1468.4
Sulphur Consumed (T)	539.8	583.7
Oil & Grease Consumed (T)	0.111 kgs/ 100 Qunitals of Cane	0.078 kgs/ 100 Qunitals of Cane
Caustic Soda Consumed	0.556 kgs/ 100 Qunitals of Cane	0.484 kgs/ 100 Qunitals of Cane
Washing Soda Consumed	0.045 kgs/ 100 Qunitals of Cane	0.061 kgs/ 100 Qunitals of Cane

(PART – B)

I. Water and Raw Material Consumption

i	Water Consumption	3000m ³ /day at 100 % Utilization (0.3 m ³ /Tons of Cane Crushed)
ii	Process	1260m ³ /day
iii	Cooling	1540 m ³ /day
iv	Domestic	200 m ³ /day
Water Consumption per Unit Products		
Name of Product	During the Crushing Year	During the Crushing Year
	2015-2016	2016-2017
Sugar	6.5 m ³ /T of Sugar	2.9 m ³ /T of Sugar

II. Raw Material Consumption

	Name of Raw Material	Name of Products	Consumption of Raw Material per unit of Product	
			During the Crushing Years	
			2015-2016	2016-2017
1	Sugar Cane	Sugar	9.3 T/T of Sugar	9.7 T/T of Sugar
2	Lime	Sugar	0.018 T/T of Sugar	0.015 T/T of Sugar
3	Sulphur	Sugar	0.007 T/T of Sugar	0.006 /T of Sugar
4	Caustic Soda	Sugar	0.52 kg/T of Sugar	0.47 kg/T of Sugar
5	Oil & Grease	Sugar	0.10kg/T of Sugar	0.075 kg/T of Sugar
6	Washing Soda	Sugar	0.045 kg/T of Sugar	0.059 kg/T of Sugar

(PART – C)
**Pollution Discharged to Environment/Unit of Output in the Crushing
season 2015 - 2016**

Pollutant	Quantity of Pollutants discharged (Mass/Day)	Concentration pollutant in Discharge (mass/volume)	Percentage of Variation from prescribed standard with reasons
a) Waste water (Average of 10 Samples in the Season) 2016-2017			
B.O.D.	24 Kg/day	24.0 mg/l	Within the max limit of 30mg/l (20.0 % below the limit)
C.O.D	97 Kg/day	97.0 mg/l	Within the max limit of 250 mg/l (61.3 % below the limit)
T.S.S	20 Kg/day	20.0 mg/l	Within the max limit of 30 mg/l (33.9 % below the limit)
Oil & Grease	1.54 Kg/day	1.54 mg/l	Within the max limit of 10 mg/l (84.6 % below the limit)
b) Stack Air (Average of 06 Samples in the Season) 2016-2017			
PM* (Stack nos- 1)	90.7 mg/Nm ³		Within the max limit of 150mg/Nm ³ (39.5 % below the limit)

* PM for Particulate Matter

Pollutant	Quantity of Pollutants discharged (Mass/Day)	Concentration pollutant in Discharge (mass/volume)	Percentage of Variation from prescribed standard with reasons
c) Noise Level (Average of 06 Samples in the Season) 2016-2017			
Average of 24 hourly Sampling	52.4 db		Within the limit of 75 db (30.0 % below the limit)
d) Ambient Air Quality Monitoring (Average of 6 Samples in the Season at 2 sampling Point) 2016-2017			
PM-10	62.1 µg/m ³	100 µg/m ³ (Max Limit)	37.9 % below the limit
SO ₂	16.8µg/m ³	80 µg/m ³ (Max Limit)	78.5 % below the limit
NOX	13.1µg/m ³	80 µg/m ³ (Max Limit)	84.0% below the limit

*Effluent discharge per day is 1000 KLPD at 100 % capacity utilization in which approx 750 KLPD treated effluent are being recycled & approx – 250 KLPD are Being used in agriculture purpose.

* 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)

Hazardous Wastes		Total Quantity (T)	
		During the Crushing Year	
		2015-2016	2016-2017
a)	From Process	Nil	Nil
b)	From Pollution control facilities (i.e. ETP) in the Form of Oil & Grease emulsion	8.7 T	9.5 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	
		During Crushing Years	
		2015-2016	2016-2017
(a) From Process			
I	Press Cake	26091 T	33198.9 T
ii	Bagasse	198189 T	267141.8 T
iii	Boiler Ash	3053 T	3205 T
iv	Molasses	33436.1 T	42597.5 T
(b) From Pollution Control facilities			
I	Sludge from ETP	81.6 T	86.2 T
ii	Oil & Grease	8.1 T	9.5 T
(c) Uses of Solid Wastes			
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

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

C) Characteristic of Bagasse Fly ash		
I	Heating Value	11.2Mj/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 V- Notch 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} Effluent Discharge per day is 1000 KLPD at 100 % capacity utilisation in which approx 750 KLPD treated effluent are being recycled & approx – 250 KLPD are being used in Agricultural purposes.

As a result of the above mentioned modification the BOD has been brought down to 24.0 mg/l & S.s 20.0 mg/l.

OUR TREATMENT STRATEGY

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

[I] Primary Treatment : - this consist of

- i. Screening of waste for removal of course floating and suspended materials.
- ii. Grit removal for separation of Heavier and readily settleable gritty materials.

[II] Equalisation Tank : Equalisation of waste stream is essential for regulation of waste and prevention of shock loads created by batch dumping of certain strong waste . The effect of such release is sudden increase in temperature, PH value , alkalinity and BOD. Such waste streams should be segregated and contained in holding tanks of adequate capacity and release gradually at a more uniform rate.

[III] Chemical treatment : Waste stream from mill wastes are treated with conventional coagulant like lime, alum, ferrous sulfate, chemical coagulation is very effective for removal of color and colloidal matter.

[IV] Aerated Tank : Biological treatment of mill wastes is necessary when the waste are to be discharged into river , lakes or nala, BOD removal efficiencies of aerated lagoon is 78-95 %.

Nutrient in the form of DAP and Urea added to aeration tank for maintaining the ration of BOD : N : P as 100 : 1.5 : 0.3.

The supernatant from aeration tank is taken in settling tanks then filter into Carbon & sand filter for recycling in process & agricultural Purposes.

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.

Process /Unit	Sampling Point	Parameter Analyzed	Frequency of Sampling
Waste water treatment plant			
1.Screen	Outlet & inlet	Floating Material	Weekly
2. Oil & grease Trap	Outlet and Inlet	Oil & grease	Weekly
3. Equalization Tank	Outlet	pH, S.S	Daily Once
4. Primary Clarifier	Outlet	SS	Daily Once
5. Aerobic Lagoon	Outlet	BOD,MLSS,pH	Weekly
6. Final Clarifier	Outlet	BOD, COD, DD, pH	Weekly
Air Pollution Control Device			
Wet Scrubber	Stack	P.M.	Continuously
Noise Level Monitoring			
At the different points of the sources and Nearby areas		Noise Level	Weekly



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

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

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

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

ETRC/PM14/TEST-REP/FT/17

TEST REPORT WASTE WATER ANALYSIS

Test Report Ref No.: ETRC/28-01/7044/2017	Date of Report : 28/01/2017
Name /Address/Type of Industry	M/S Gobind Sugar Mills Khamaria Pandit Lakhimpur Kheri (U.P.)

SAMPLE DETAILS

1	Water/ Waste Water	Waste water	5	Packing Condition	sealed
2	Sample Description	ETP Effluent (After treatment)	6	Sample Collected By	Industry self
				Date of sampling	19.01.2017
3	Sample received date	19.01.2017	7	Analysis Start Date	19.01.2017
4	Sample Quantity	2 litre	8	Analysis End Date	27.01.2017

TEST RESULT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	Colour	Hazen	IS -3025 (PART 4) 1983 reaffirmed 2002	5.0	5-100
2	Odour	-	IS -3025 (PART 5) 1983 reaffirmed 2002	Agreeable	Qualitative
3	pH	-	APHA 22nd Ed2012-4500H+(PP4-91 to PP4-95) Electrometric method	7.2	1-14
4	Total suspended solid (T.S.S.)	mg/l	APHA 22nd Ed2012-2540 D (PP-66 to PP2-67) Dried at 103-105°C method	24.6	5-5000
5	Bio chemical oxygen demand (BOD)	mg/l	IS 3025 (Part-44)1993 R2003 3 Days, 27 °C method	26.0	1-90000
6	Chemical oxygen demand (COD)	mg/l	APHA 22 nd Ed2012-5220 B(PP5-17 to PP5-18) Open Reflux method	130.0	5-135000
7	Oil &Grease	mg/l	APHA22nd Ed2012-5520 A+D, 5-42 Soxhlet Extraction Method.	BDL	5-200

BDL=below detection limit

..... 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.

Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge



Authorized Signatory
(Ritu Garg)
Dy. CEO



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ETRC/PM14/TE5-REP/FT/17

TEST REPORT WASTE WATER ANALYSIS

Test Report Ref No.: ETRC/28-01/7043/2017	Date of Report : 28/01/2017
Name /Address/Type of Industry	M/S Gobind Sugar Mills Khamaria Pandit Lakhimpur Kheri (U.P.)

SAMPLE DETAILS

1	Water/ Waste Water	Waste water	5	Packing Condition	sealed
2	Sample Description	ETP Effluent (Before treatment)	6	Sample Collected By	Industry self
				Date of sampling	19.01.2017
3	Sample received date	19.01.2017	7	Analysis Start Date	19.01.2017
4	Sample Quantity	2 litre	8	Analysis End Date	27.01.2017

TEST RESULT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	Colour	Hazen	IS -3025 (PART 4) 1983 reaffirmed 2002	25.0	5-100
2	Odour	-	IS -3025 (PART 5) 1983 reaffirmed 2002	Agreeable	Qualitative
3	pH	-	APHA 22nd Ed2012-4500H+(PP4-91 to PP4-95) Electrometric method	6.4	1-14
4	Total suspended solid (T.S.S.)	mg/l	APHA 22nd Ed2012-2540 D (PP-66 to PP2-67) Dried at 103-105°C method	2208.0	5-5000
5	Bio chemical oxygen demand (BOD)	mg/l	IS 3025 (Part-44)1993 R2003 3 Days, 27 °C method	896.0	1-90000
6	Chemical oxygen demand (COD)	mg/l	APHA 22 nd Ed2012-5220 B(PP5-17 to PP5-18) Open Reflux method	1380.0	5-135000
7	Oil &Grease	mg/l	APHA22nd Ed2012-5520 A+D, 5-42 Soxhlet Extraction Method.	24.6	5-200

..... 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.
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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge



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(Ritu Garg)
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ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

TEST REPORT NOISE MONITORING

Test Report Ref No.: ETRC/28-01/7042/2017	Date of Report : 28/01/2017
Name /Address/Type of Industry	M/S Gobind Sugar Mills Khamaria Pandit Lakhimpur Kheri (U.P.)

MONITORING DETAILS

1	Sampling Location	Near admin block	2	Monitoring done By	ETRC
3	Monitoring date	17.01.2017	4	Monitoring end date	18.01.2017

TEST RESULT

LOCATION OF THE SAMPLING (Near Admin)		SOUND LEVEL (Decibels) Db(A)	
DAY TIME (6.00 AM – 10.00 PM)		NIGHT TIME (10.00 PM – 6.00 AM)	
Time	Values db(A)	Time	Values db(A)
6.0 AM-7.0 AM	50.1	10.0PM-11.0PM	49.4
7.0 AM-8.0 AM	52.4	11.0PM-12.0AM	44.0
8.0 AM-9.0 AM	56.2	12.0 AM-1.0 AM	43.0
9.0 AM-10.0 AM	59.8	1.0 AM-2.0 AM	45.8
10.0 AM-11.0 AM	55.6	2.0 AM-3.0 AM	47.2
11.0 AM-12.0 PM	53.2	3.0 AM-4.0 AM	49.0
12.0 PM-1.0 PM	52.1	4.0 AM-5.0 AM	48.4
1.0 PM-2.0 PM	54.3	5.0 AM-6.0 AM	49.7
2.0 PM-3.0 PM	56.4		
3.0 PM-4.0 PM	58.9		
4.0 PM-5.0 PM	60.8		
5.0 PM-6.0 PM	55.0		
6.0 PM-7.0 PM	57.0		
7.0 PM-8.0 PM	58.2		
8.0 PM-9.0 PM	53.4		
9.0 PM-10.0PM	50.0		
AVERAGE: 55.21 (Leq day time)		AVERAGE: 47.06 (Leq night time)	

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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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge



Authorized Signatory
(Ritu Garg)
Dy. CEO



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

ETRCPM14/TES-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/28-01/7041/2017		Date of Report : 28/01/2017	
Name /Address/Type of Industry		M/S Gobind Sugar Mills Khamaria Pandit Lakhimpur Kheri (U.P.)	
Monitored by		ETRC	
Location of Sampling point		Near ETP Area (Station No : 2)	
SL. NO.	GENERAL OBSERVATIONS	DETAILS-PM ₁₀	DETAILS-PM _{2.5}
(a)	Weather conditions	Clear	Clear
b)	Wind direction	East to west	East to west
c)	Average humidity (%)	40	40
d)	Average ambient temperature (°C)	24	24
e)	Time of Sampling Started (Hours)	10:20 am (17.01.2017)	10:40 am (17.01.2017)
f)	Time of Sampling completed (Hours)	10:20 am (18.01.2017)	10:40 am (18.01.2017)
g)	Total time of sampling (Minutes)	24 hour (1446 minutes)	24 hour (1440 minutes)
	Average Air sampling rate (m ³ /minute)	1.014	NA
	TOTAL VOLUME OF AIR SAMPLED (m³)	1466.24	23.12

TEST RESULT

SL. No.	Particulars	Protocol	Unit	Result	Standard as per NAAQS ; dated 18/11/2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS- 5182 (PART -23) :2006	µg/m ³	84.72	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	CPCB Guidelines, Vol. 1	µg/m ³	44.61	For 24 hour =60
3	Oxides of Sulphur (SO _x)	IS- 5182 (PART -2):2012	µg/m ³	11.6	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS- 5182 (PART -6):2012	µg/m ³	15.4	For 24 hour =80

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ETRC/PM14/TES-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/28-01/7040/2017		Date of Report : 28/01/2017	
Name /Address/Type of Industry		M/S Gobind Sugar Mills Khamaria Pandit Lakhimpur Kheri (U.P.)	
Monitored by		ETRC	
Location of Sampling point		Near Factory Colony (Station No : 1)	
SL. NO.	GENERAL OBSERVATIONS	DETAILS-PM ₁₀	DETAILS-PM _{2.5}
(a)	Weather conditions	Clear	Clear
(b)	Wind direction	East to west	East to west
(c)	Average humidity (%)	38	38
(d)	Average ambient temperature (°C)	23	23
(e)	Time of Sampling Started (Hours)	10:00 am (16.01.2017)	10:30 am (16.01.2017)
(f)	Time of Sampling completed (Hours)	10:00 am (17.01.2017)	10:30 am (17.01.2017)
(g)	Total time of sampling (Minutes)	24 hour (1432 minutes)	24 hour (1440 minutes)
	Average Air sampling rate (m ³ /minute)	1.04	NA
	TOTAL VOLUME OF AIR SAMPLED (m ³)	1489.28	22.16

TEST RESULT

SL. No.	Particulars	Protocol	Unit	Result	Standard as per NAAQS ; dated 18/11/2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS- 5182 (PART -23) :2006	µg/m ³	72.86	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	CPCB Guidelines, Vol. 1	µg/m ³	43.27	For 24 hour =60
3	Oxides of Sulphur (SO _x)	IS- 5182 (PART -2):2012	µg/m ³	14.2	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS- 5182 (PART -6):2012	µg/m ³	12.6	For 24 hour =80

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Dy. CEO



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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/28-01/7039/2017		Date of Report : 28/01/2017
Name /Address/Type of Industry		M/S Gobind Sugar Mills Khamaria Pandit Lakhimpur Kheri (U.P.)
Monitored by		ETRC
SL. NO.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	17.01.2017
b)	Stack material	RCC
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 - 30.84 T/hr Approx
g)	Details of APCS installed	Wet Scrubber
2.	PARAMETERS	VALUES
a)	Ambient temperature (°C)	23
b)	Stack gas temperature (°C)	106°C
c)	Stack gas velocity (m/sec)	12.07
d)	Flow rate (LPM)	18
e)	Sampling time (minutes)	60
f)	Volume of air sampled (liters)	1080

TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Standard (as per CPCB)
1	Particulate Matter	mg/Nm ³	IS : 11255 (part-1) : 1985 reaffirmed 2003	74.6	150

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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/28-01/7038/2017		Date of Report : 28/01/2017
Name /Address/Type of Industry		M/S Gobind Sugar Mills Khamaria Pandit Lakhimpur Kheri (U.P.)
Monitored by		ETRC
SL. NO.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	17.01.2017
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 No., 150 TPH
f)	Type and quantity of fuel used	Bagasse-56.40 T/hr Approx
g)	Details of APCS installed	ESP
2.	PARAMETERS	VALUES
a)	Ambient temperature (°C)	22
b)	Stack gas temperature (°C)	120°C
c)	Stack gas velocity (m/sec)	12.75
d)	Flow rate (LPM)	18
e)	Sampling time (minutes)	60
f)	Volume of air sampled (liters)	1080

TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Standard (as per CPCB)
1	Particulate Matter	mg/Nm ³	IS : 11255 (part-1) : 1985 reaffirmed 2003	81.7	150

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