



Date: 1<sup>st</sup> June 2020

To

The Additional Principal Chief Conservator of Forest  
Ministry of Env., Forest and Climate Change, Govt. of India,  
Regional Office (Eastern Zone), A/3, Chandrasekharpur,  
Bhubaneswar-751023

**Sub: Submission of Six Monthly Environmental Compliance Status Report**

**M/s Boudh Distillery Pvt. Ltd for the period October-2019 to March-2020.**

Ref: Letter No.J-11011/160/2015-IA II (I) dated 28<sup>th</sup> October 2016.

Dear Sir,

With reference to the above subject we are hereby submitting 6<sup>th</sup> monthly compliance report as per the conditions stipulated in the Environmental Clearance issued by Ministry Of Environment,

Forest & Climate Change vide letter no. J-11011/160/2015-IA II(I) dated 28<sup>th</sup> October 2016 for Grain Based Distillery Plant (2x60 KLPD) along with Co-generation Power Plant (2x2.5 MW) to Boudh Distillery Pvt. Ltd., at Village Titerikata, post- Ramvikata, Tehsil-Harbhanga, District- Boudh, Odisha.

Our Project will be implemented in two phases:

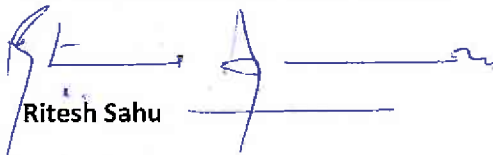
Phase 1: 60 KLPD and 2.5MW Captive Power Plant (Fully Commissioned)

Phase 2: 60 KLPD and 2.5MW Captive Power Plant (Future plan)

Requesting you to accept the report

With Regards,

For Boudh Distillery Private Limited

  
Ritesh Sahu

Managing Director



Copy to: State Pollution Control Board, Bhubaneswar.

Regional Office, State Pollution Control Board (Modipara, Sambalpur)

**BOUDH DISTILLERY PVT. LTD.**

Head Office: Plot No- C - 84, Palashpalli, Airport Area, Bhubaneswar - 751020, India, Contact: +91-674-2593590

Plant: Titerikata, PO-Ramvikata, Tehsil-Harbhanga, Dist.-Boudh - 762024, Odisha, India, Contact: +91-6841-222100

Regd. Office: Gunjan Apartments 11, Palm Avenue, Flat 1C Ballygunge, Kolkata-700019, India, CIN: U15311WB2008PTC131544

☎ www.boudhdistillery.com ✉ info@boudhdistillery.com

# **Six Monthly Environmental Compliance Report of Conditions of Environmental Clearance**

**(October 2019 to March 2020)**

**FOR**

**M/s Boudh Distillery Pvt Ltd**

**At**

**Village: Ramvikata, Po-Titerikata,  
Tahsil: Harbhanga, Dist: Boudh, Odisha, Pin-762024**

**For Submission to:**

**Ministry of Environment, Forest & Climate Change (MoEF & CC)**

**Regional Office (Eastern Zone), A/3, Chandrasekharpur,**

**Bhubaneswar-751023**

**Submitted by:**

**Boudh Distillery Pvt Ltd**



**Compliance to the conditions stipulated in the Environmental Clearance issued by Ministry of Environment, Forest & Climate Change vide letter no. J-11011/160/2015-IA II (I) dated 28<sup>th</sup> October 2016 for Grain Based Distillery plant (2 x 60 KLPD) along with Cogeneration Power plant (2 x 2.5 MW) to Boudh Distillery Pvt. Ltd., at Village Titerikata, Post Ramvikata, Tehsil Harabhanga, District Boudh, Orissa**

**A. SPECIFIC CONDITIONS**

**Period of Report: October'2019 to March'2020**

S.No.	Specific Conditions	Compliance
i.	ESP along with stack of adequate height shall be provided to coal/biomass fired boiler to control particulate emission within 50 mg/Nm <sup>3</sup> .	We do here by confirm that Electrostatic Precipitator having 04 nos. field along with stack of 45 m to Coal/Biomass fired Boiler has been provided to control particulate Emission within 50 mg/Nm <sup>3</sup>
ii.	Total fresh water requirement of 1200 m <sup>3</sup> /day will be met from Mahanadi water supply. No groundwater shall be extracted.	We do here by confirm that total fresh water requirement of 1200 m <sup>3</sup> /day will be met from Mahanadi river only. We also confirm that no groundwater will be used for our Distillery process purposes.
iii.	Spent wash generation from grain-based distillery shall not exceed 6 KI/KI of alcohol. Spent wash shall be treated through decanter and concentrated in multi-effect evaporator (MEE) to form DWGS. DWGS will be sent to dryer to form DDGS. The condensate, spent lees and utilities effluent shall be treated in the ETP comprising tertiary treatment. Treated effluent will be used for make-up water of cooling towers and water quality of treated effluent shall meet the norms prescribed by CPCB/SPCB and recycle/reuse.	Noted and being Complied. The spent wash generation from distillery is also 6KI/KL of Alcohol. Spent wash is passing through decanter and concentrated in multi-effect evaporator (MEE) to form DWGS. DDGS is getting from DWGS after passing through Dryer. The condensate and Lees are also recycled and again sent back to process. The effluent was treatment in ETP and the Effluent treated water is used as make up for cooling towers.
iv.	Spent wash shall be stored in SS tank. The storage of spent wash shall not exceed 5 days capacity.	Noted and being complied. Already installed SS storage tank for spent wash, capacity of spent wash tank- 280 m <sup>3</sup> volume.  Picture of spent wash tank:





v. As proposed, no effluent from distillery shall be discharged outside the plant premises and Zero discharge shall be adopted. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.

We do here by confirm that, No effluent from distillery is discharged outside the plant premises and Zero liquid discharge practice is maintained. We also confirm to take necessary steps to reduce the water consumption by adopting 4 R's (Reduce, Reuse, recover & Recycle).



Annexure-I: Picture Of 4R



S.No.	Specific Conditions	Compliance
vi.	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	We do here by confirm the Distillery process effluent / any wastewater is not allowed to mix with the storm water. Storm water is being passed through guard pond.
vii.	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bhubaneswar and SPCB.	We are not using ground water to process the plant; Hence we have not installed Piezometers.
viii.	Continuous online monitoring (24x7) system to be installed within treatment plant and data to be uploaded to company's web site and also provided to respective Regional Office of MoEF&CC and concerned SPCB/CPCB.	We have completed commissioning of our Phase-I i.e. Distillery Unit of 60KLPD and 2.5 MW Captive Power Plant test running started in June'2018 and after attending to all snags, the final commissioning/commercial production started from 1 <sup>st</sup> Sep'2018. Continuous online monitoring (24x7) system has been installed within treatment plant and data of treatment plant (ETP) is transmitted online to the server of Odisha State as well as Central Pollution Control Board. Data will be uploaded in company's web site and will also be provided to MoEF&CC, Regional Office, Bhubaneswar.
ix.	Bagasse storage shall be done in such a way that it does not get air borne or fly around due to wind.	Not applicable, as there is no Bagasse storage is envisaged in the project. We are using only coal.
x.	Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasse ash and coal ash shall be stored separately.	Boiler ash Silo has been installed, ash is stored separately in Silo. Also, Proper care is taken to prevent direct exposure of workers to fly ash & dust. Boiler Ash we have send to Brick manufacturer.  Pictures of Boiler Ash Storage:





S.No.	Specific Conditions	Compliance
		
xi.	<p>Fire-fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire-fighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.</p>	<p>Fire-fighting system has been installed as per the norms and all area is covered where alcohol is produced, handled and stored. Provision of foam and water sprinkler system for fire-fighting has been made to control fire from the alcohol storage tank.</p> <p>A DMP (Disaster Management Plan) has been prepared.</p> <p><b>Pictures of Fire-Fighting System:</b></p> 



S.No.	Specific Conditions	Compliance
xii.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.	Medical test records of each employee have been maintained separately. First aid boxes are provided in the plant premises. <b>Forms 31 A which is related to Employee health record is been maintained for all the employees.</b>
xiii.	Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.	Dedicated parking facility for loading and unloading of materials has been provided in the factory maingate- Truck parking, Inside the plant car parking. We have also developed good traffic management system for incoming and outgoing vehicles to avoid congestion on the public road and it is also maintaining. <b>Annexure-III: Photos of Parking Area</b>
xiv.	As proposed, green belt over 12 acre of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	As proposed, green belt of 12 acre of the total project area has been developed within plant premises and more plantation are in progress with at least 10-meter-wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species has been made as per the CPCB guidelines in consultation with the DFO. <b>Annexure-IV: Pictures of Green Belt and Plantation</b>
xv.	All the commitments made during the Public Hearing/Public Consultation meeting held on 11 <sup>th</sup> March, 2016 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Noted and this is ongoing process and being complied.
xvi.	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs particularly village named Ramvikata and Titerikata and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	Noted and this is ongoing process and being complied. Due to Covid-19 pandemic we have supply free of cost sanitizers (20,000 ltrs) to local administration at Boudh and also to Fire Office and Police Commissioner Bhubaneswar . <b>Annexure-II: Picture of District Administration Office.</b>





## B. GENERAL CONDITIONS



S.No.	General Conditions	Compliance
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.	Noted and being Complied. We are complying to the stipulations made by SPCB, State Govt. and other Statutory authority to the best of our effort.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and will be complied.
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Noted and being complied. Accredited laboratory has already been given contract for certification of ambient air quality report on monthly basis. This report is been submitted on monthly basis to OSPCB State office, Bhubaneswar and Regional office, Sambalpur, Sample copy of the report is <b>attached</b> .
iv.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	We are regularly measuring as well as maintaining noise level within the limit.
v.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Noted and being complied. Twelve Nos. of rain water harvesting pit has been provided at project Site to recharge the ground water.  Annexure-V: Pictures of Rain Water Harvesting Pit
vi.		





S.No.	General Conditions	Compliance
	<p>Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.</p>	<p>Noted and being Complied. Training on health &amp; safety aspect is being conducted periodically and records are maintained.</p>  



S.No.	General Conditions	Compliance
vii.	Usage of Personnel Protection Equipment's (PPEs) by all employees/ workers shall be ensured.	<p>Noted and being Complied. We have provided all kind of PPEs like Safety Shoes, Safety Helmets, Safety belts, Hand Gloves, Goggles, nose masks, ear Muffs,proximity suit etc.</p> 
Viii.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	<p>Noted and being Complied. Some of the measures taken:</p> <ol style="list-style-type: none"> <li>1. We have set up Effluent Treatment Plant(ETP) which is fully operational at the time of commencement of commercial production.</li> <li>2. Electrostaticprecipitator(ESP) is installed for abatement of air pollution.</li> <li>3. Not using ground water for production.</li> <li>4. Distillery spent wash is processed as cattle feed (DDGS) and sold as bio products.</li> <li>5. Three layers of saplings planted in the Total boundary area for green belt.</li> <li>6. Continuous Emission Online Monitoring Systems are installed as well as data is being transferred to CPCB as well as SPCB.</li> </ol>
viii.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	<p>Noted and We have also taken initiatives to provide drinking water facility in nearby schools, Temples and medical centre. We will also be entering into agreement with local ITI's, Provide scholarship(Bidwan) to merit near by school students. We have also distributed school bags to the students at nearby schools.</p>
ix.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	<p>Noted and this is ongoing process and being complied.</p> 

S.No.	General Conditions	Compliance
x.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Noted and complied. Environment management committee has been framed to carry out the environmental management and monitoring system. We have set up a laboratory to check the parameters in effluent like PH, COD, BOD, TS, TDS, Conductivity, VA-Fatty Acid, Alkaline, Acidity, Hardness, Silica & turbidity etc. Environmental Management cell is headed by our Plant head. Meanwhile we are also giving training to our employees for in house management & monitoring of environment. We are also providing trainings to our employees by Environment Experts for in house management and monitoring of Environment.
xi.	As proposed, the company shall earmark sufficient funds towards capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked, for environment management/ pollution control measures shall not be diverted for any other purpose.	Capital Cost for Environment Protection for proposed project : Rs. 13.0 Crores.
xii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad / Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.	Noted and complied.
xiii.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board. A copy of	Noted and is being complied. We have submitted the report for the below mentioned period:  1. Oct'2016 to Mar'2017 2. Apr'2017 to Sep'2017



S.No.	General Conditions	Compliance
	Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	3. Oct'2017 to Mar'2018 4. Apr'2018 to Sep'2018 5. Oct'2018 to Mar'2019 6. April'2019 to Sep'2019 7. Oct'2019 to Mar'2020
xiv.	The environmental statement for each financial year ending 31st March in <b>Form-V</b> as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Noted and being complied.
xv.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Advertisement had been given in the two local newspapers namely THE TELEGRAPH (English) and NITIDIN (Oriya) on 14.11.2016
xvi.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted and is complied.





## Annexure-I: Implementation of 4R (Reuse of Filter Backwash water)



Annexure-II : Picture of District Administration Office, Boudh



**Annexure-III: Photos of Parking Area**







**Annexure- IV: Pictures of Green Belt and Plantation**















**Annexure-V: Pictures of Rain Water Harvesting**







# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha  
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF (Wildlife) & CWLW, Odisha  
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report No. - CEMC/BDPL/290220/W3

Issued Date-29.02.2020

## WASTE WATER TEST REPORT

Name & Address of the Client : M/s. Boudh Distillery Pvt. Ltd., Boudh  
Work order No. : WO\18-19\00001  
Date of Sampling : 22.02.2020  
Date of Sample Received : 24.02.2020  
Date of Analysis : 24.02.2020 to 29.02.2020  
Sample Description : Waste water  
Sample Quantity : 1.0 Ltr  
Location : ETP Final Reject  
Reference No. : CEMC-290220W3

## ANALYSIS RESULT

Sl. No.	Parameter	Unit	Testing Method	Result
1.	pH Value @ 25°C	-	APHA 4500 H <sup>+</sup> B	7.42
2.	Total Suspended Solids	mg/l	APHA 2540 D	60
3.	B.O.D for 3 days @ 27°C	mg/l	APHA 5210 B	36
4.	C.O.D	mg/l	APHA 5220 C	170
5.	Oil & Grease	mg/l	APHA 5520 B	<1

**\*End of Report\***

  
Authorized Signatory

Notes:

- The result given above related to the tested sample, as received. The customer asked for the above test only.
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Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: 1<sup>st</sup> Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826  
E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,  
E-mail: cemclab@yahoo.in, Mobile: 7752014842



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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report No. - CEMC/BDPL/290220/W2

Issued Date-29.02.2020

## WASTE WATER TEST REPORT

Name & Address of the Client : M/s. Boudh Distillery Pvt. Ltd., Boudh  
Work order No. : WO\18-19\00001  
Date of Sampling : 22.02.2020  
Date of Sample Received : 24.02.2020  
Date of Analysis : 24.02.2020 to 29.02.2020  
Sample Description : Waste water  
Sample Quantity : 1.0 Ltr  
Location : ETP Outlet  
Reference No. : CEMC-29022020W2

## ANALYSIS RESULT

Sl. No.	Parameter	Unit	Testing Method	Result
1.	pH Value @ 25°C	-	APHA 4500 H <sup>+</sup> B	7.66
2.	Total Suspended Solids	mg/l	APHA 2540 D	<5
3.	B.O.D for 3 days @ 27°C	mg/l	APHA 5210 B	8.8
4.	C.O.D	mg/l	APHA 5220 C	20
5.	Oil & Grease	mg/l	APHA 5520 B	<1

\*End of Report\*

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E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,  
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report No. - CEMC/BDPL/290220/W1

Issued Date-29.02.2020

## WASTE WATER TEST REPORT

Name & Address of the Client : M/s. Boudh Distillery Pvt. Ltd., Boudh  
Work order No. : WO\18-19\00001  
Date of Sampling : 22.02.2020  
Date of Sample Received : 24.02.2020  
Date of Analysis : 24.02.2020 to 29.02.2020  
Sample Quantity : 1.0 Ltr  
Location : PST (ETP Inlet)  
Reference No. : CEMC-29022020W1

### ANALYSIS RESULT

Sl. No.	Parameter	Unit	Testing Method	Result
1.	pH Value @ 25°C	-	APHA 4500 H <sup>+</sup> B	9.76
2.	Total Suspended Solids	mg/l	APHA 2540 D	240
3.	B.O.D for 3 days @ 27°C	mg/l	APHA 5210 B	1120
4.	C.O.D	mg/l	APHA 5220 C	3400
5.	Oil & Grease	mg/l	APHA 5520 B	6.2

**\*End of Report\***

*M. Prout*

Authorized Signatory

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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report No. - CEMC/BDPL/290220/St

Issued Date-29.02.2020

## STACK EMISSION MONITORING TEST REPORT

Name & Address of the Client	M/s. Boudh Distillery Pvt. Ltd., Boudh
Work Order No.	WO\18-19\00001
Reference No.	CEMC-29022020St
Nature of Sampling	Source Emission
Sampling By	B.Samantaray
Instrument Used	Stack monitoring kit, Flue gas Analyzer
Sampling Date	22.02.2020
Location of Sampling	BOILER

### ANALYSIS RESULT

Sl. No	Items	Result	Testing Method
01	Flue Gas Temp. in K	407	—
02	Average flue gas Velocity in m/sec	9.6	--
03	Differential Pressure in mmH <sub>2</sub> O	5.62	Wet dry bulb
04	Particulate Matter (PM) in mg/Nm <sup>3</sup>	48.6	Gravimetric Method
05	Nitrogen Oxide (NO <sub>x</sub> ) in ppm	138	Flue Gas Analyzer
06	Sulphur Dioxide (SO <sub>2</sub> ) in ppm	117	Flue Gas Analyzer
07	Carbon Dioxide (CO <sub>2</sub> ) in %	11.4	Flue Gas Analyzer
08	Carbon Monoxide (CO) in mg/Nm <sup>3</sup>	29	Flue Gas Analyzer

**\*End of Report\***

  
Authorized Signatory



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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report No. - CEMC/BDPL/290220/A3

Issued Date-29.02.2020

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Name & Address of the Client	M/s. Boudh Distillery Pvt. Ltd., Boudh
Work Order No.	WO\18-19\00001
Reference No.	CEMC-29022020A3
Nature of Sampling	Ambient Air Sample
Sampling By	B.Samantaray
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter and Gaseous Attachment
Location of Sampling	Near Main Gate
Sampling Date	22.02.2020

### ANALYSIS RESULT

Sl. No.	Items	Unit	Result	*NAAQ Standard	Testing Method
01	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	71.2	100	Gravimetric method
02	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	38.9	60	Gravimetric Method as per CPCB
03	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	11.3	80	Improved West and Gaeke method
04	Nitrogen Oxides (NO <sub>x</sub> )	µg/m <sup>3</sup>	16.7	80	Modified Jacob & Hochheiser (Na-Arsenite method)
05	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.5	4.0	Followed by NDIR

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

**\*End of Report\***

  
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Report No. - CEMC/BDPL/290220/A2

Issued Date-29.02.2020

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Name & Address of the Client	M/s. Boudh Distillery Pvt. Ltd., Boudh
Work Order No.	WO\18-19\00001
Reference No.	CEMC-29022020A2
Nature of Sampling	Ambient Air Sample
Sampling By	B.Samantaray
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter and Gaseous Attachment
Location of Sampling	Near Administrative Building
Sampling Date	22.02.2020

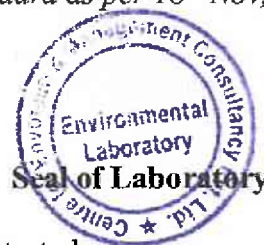
### ANALYSIS RESULT

Sl. No.	Items	Unit	Result	*NAAQ Standard	Testing Method
01	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	61.6	100	Gravimetric method
02	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	33.9	60	Gravimetric Method as per CPCB
03	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.8	80	Improved West and Gaeke method
04	Nitrogen Oxides (NOx)	µg/m <sup>3</sup>	16.1	80	Modified Jacob & Hochheiser (Na-Arsenite method)
05	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.5	4.0	Followed by NDIR

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

**\*End of Report\***

  
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Report No. - CEMC/BDPL/290220/A1

Issued Date-29.02.2020

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Name & Address of the Client	M/s. Boudh Distillery Pvt. Ltd., Boudh
Work Order No.	WO\18-19\00001
Reference No.	CEMC-29022020A1
Nature of Sampling	Ambient Air Sample
Sampling By	B.Samantaray
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter and Gaseous Attachment
Location of Sampling	Near Pump House & ESP
Sampling Date	22.02.2020

### ANALYSIS RESULT

Sl. No.	Items	Unit	Result	*NAAQ Standard	Testing Method
01	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	69.8	100	Gravimetric method
02	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	34.9	60	Gravimetric Method as per CPCB
03	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	11.2	80	Improved West and Gaeke method
04	Nitrogen Oxides (NO <sub>x</sub> )	µg/m <sup>3</sup>	16.3	80	Modified Jacob & Hochheiser (Na-Arsenite method)
05	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.6	4.0	Followed by NDIR

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

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