

Ambuja Cement

ACL/SK/ENV/11-24/22

Date : 25.11.2024

To

The Ministry of Environment Forest & Climate Change
Integrated Regional Office, Kolkata
IB – 198, Sector-III, Salt Lake City,
Kolkata – 700106,
West Bengal

Sub: Submission of Six-Monthly Compliance Report towards Environment Clearance dated 23.06.2011 for the period April 2024 to September 2024

Ref: EC letter no. J-110 I I/547/2010-IA-II (I) dated 23.06.2011

Dear Sir.

Kindly find the six monthly EC compliance status report for the period April 2024 to September 2024 as per EC condition along with supporting documents.

For Ambuja Cements Ltd (Unit: Sankrail)



(Pravin Varotaria)
Plant Head



CC: 1) The Scientist E. CPCB zonal Office, South End Conclave, Block 508.1582
Rajdanga Main Rd, Kolkata - 700707.

2) Sr. SEE (EIM). WBPCB, Paribesh Bhavan, Salt lake, Kolkata-700098

Enclosures – Compliance report and Annexure PDF Copy

AMBUJA CEMENTS LIMITED

Unit : Sankrail

Jaladhulagori, Vill. & P.O. : Dhulagori, P.S. : Sankrail, Dist. : Howrah (W.B.) - 711302

Phone : 033 - 6608 7100 (4 Lines), Fax : 033 2679 8423

(Regional Off. : "INDICON VIVA", 6th Floor, 53A, Leela Roy Sarani, Kolkata - 700 019, Phone : 033 - 4403 3900, Fax : 2461 7744 / 8413)

(Regd. Off. : P.O. : Ambujanagar, Taluka : Kodinar, District : Gir Somnath, Gujarat - 362715)

CIN Nos. L26942GJ1981 PLC004717, Website : www.ambujacement.com

**SIX MONTHLY COMPLIANCE REPORT OF
ENVIRONMENTAL CLEARANCE
STAND-ALONE CEMENT GRINDING PLANT**

At

**VILLAGE - JALADHULAGARI, SANKRAIL,
DIST – HOWRAH, WEST BENGAL**

Submitted to:

**Regional Office - Ministry of Environment, Forests & Climate Change, Kolkata.
Zonal Office – Central Pollution Control Board, Kolkata
Sr. SEE (EIM) - West Bengal Pollution Control Board**

Submitted By:

**Ambuja Cements Limited
Unit – Sankrail, Howrah (West Bengal)
PERIOD: April 2024 – September 2024**

EC letter no. J-110 II/547/2010-IA-II (I) dated 23.06.2011

Name of Project

**Modernization / Expansion of Existing Cement Grinding Unit (from
1.5 MTPA to 2.4 MTPA) at Village- Jala Dhulagori, Tehsil-Sankrail,
District- Howrah in West Bengal by M/s. Ambuja Cements Limited
(ACL).**

A	<u>Specific Condition</u>	
	Condition	Status of Compliance
i	Particulate emissions shall be controlled within 50 mg/Nm ³ by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB regularly.	As per MoEF & CC Notification dated 10th May 2016, particulate matter Emission is maintained below the 30 mg/ Nm ³ in all stacks by installing Bag house in Roller press & Bag filter in all remaining stacks. Stack monitoring result is provided in <i>Annexure I</i> . Ambient Air monitoring result is provided in <i>Annexure II</i> . Fugitive emission monitoring result is provided in <i>Annexure III</i> .
ii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 should be followed.	One continuous Ambient Air quality monitoring station Installed, data of which continuously transmitted to CPCB server. Apart from this NABL accredited external agencies approved by WBPCB are also engaged to carry out the AAQ monitoring at four quadrant of the plant premise. Ambient Air data is provided in <i>Annexure II</i> .
iii	Gaseous emissions including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.	Since Ambuja Cements Limited, Unit: Sankrail is a grinding unit hence there is no occurrence of gaseous emission.
iv	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyors should be covered with GI sheets. Covered sheds for storage raw materials and fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	The company has adequate measures to control fugitive dust emission. 1. All transfer points and storage silos are provided with dust collection and extraction systems (Bag filters) for effective control of fugitive emissions.(Annexure VIII, Figure 1.1 to 1.4) 2. Clinker is stored inside 02 no. Silos of 25,000 MT each (Annex-VIII: Figure 2.1). 3. Fly-Ash is stored inside a 4000 MT Silo. - (Annex-VIII: Figure 2.3). Fly Ash is handled through Pneumatic system (Annex-VIII: Figure 5.2) 4. Raw materials like Gypsum/Slag Stock are stored under covered shed (Annex-VIII: Figure 3.1). Rest covered with proper tarpaulin (Annexure VIII, Figure 3.2) 5. Finished Cement is stored in 4 no. Cement Silos of 5,000 MT (Annex-VIII: Figure 2.2). 6. Clinker is transported by rake with proper tarpaulin covered (Annexure VIII- figure 4.1). Fly ash is transported by Closed bulkers {Annexure VIII- Figure 4.2) 7. All conveyors are covered with GI sheets (Annex-VIII: Figure 1.1 to 1.4) to avoid any secondary fugitive dust emission. Raw Mill is not installed at Sankrail plant, since it is a cement grinding unit.
v	Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of 5PM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the	All internal roads and open areas in the plant area are concreted / pitched and vehicle movement is allowed only through specific routes for control of secondary fugitive dust emissions. (Annexure VIII- Figure 6.1 to 6.3) Automatic road sweeping machine and Water sprinkler is used for housekeeping and dust suppression respectively throughout the critical areas such as at the raw material stock yards,

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17/02/2017



	norms prescribed by the Central Pollution Control Board in this regard.	cement bag loading areas, truck yard and roads. Photograph of Bag Filter, water sprinkler arrangement and mobile road sweeping machine is provided in (Annexure VIII- Figure 6.1 to 6.3) Pedestrian Pathway (Annex-VIII: Figure 6.1) inside the factory premises are constructed to ensure safe vehicular movement beside concreted road (Annex-VIII: Figure 7.1).
vi	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and should not be overloaded. Vehicular emissions should be regularly monitored.	Clinker, Slag and conditioned fly ash are transported to the plant using railway transportation (Annex-VIII: Figure 4.1, 5.1} Dry Fly-ash is transported through closed bulkers only and overloaded quantity is not allowed. (Annex-VIII: Figure 4.2, 5.2). Vehicular Emission is regularly monitored at main gate through checking of vehicle Pollution Certificate under PUC norms.
vii	Total ground water requirement shall not exceed 270 m ³ /day and necessary permission from the competent authority for the drawl of water shall be obtained. Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater should be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.	Ground water consumed for the period is within 270 m ³ per day and continuous efforts are made for water conservation through developing STP water utilization. Permission obtained from Ground Water Resource Development Authority, Govt. of West Bengal. Permit No. P060900201074000000ITLE dt. 21.06.2011 & P060900201963000000ITSE dt. 13/02/2012 for 180 m ³ /day & 90 m ³ /day drawn of ground water through borewells. The copies of the permissions are provided in Annexure IV. Waste water treatment scheme is based on "Zero Discharge" concept. Waste water is recycled and reused to minimize fresh water usage. Present treated water discharged from STP being used for gardening & dust suppression within plant boundary. (Annex-VIII: Figure 7.4). Cement grinding process is a dry process hence no process waste water is generated.
viii	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	For the purpose of Roof top rain water harvesting we have made a provision at Truck Loading Bay rooftop. (Annex - VI)
ix	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers/ re-processors only,	All the bag filter dust, clinker dust and cement dust from pollution control devices are recycled and reused in the process used for cement manufacturing. Spent oil is sold to authorized recyclers / re-processors only. Batteries are recycled under buy-back scheme by the suppliers. Manifest Form -10 is attached. (Annexure -IX)
x	Green belt shall be developed in at least 33% area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	A proper green belt is developed in our existing factory premises. Out of the total existing plant area i.e. 60.4 Acre, 20.9 Acre area (34.60%) has already been developed into green belt. Continuous effort is being made to develop more of area into plantation- in last six months, we have planted 100 local species [Akashmoni, Debdaru] as per guidelines. Survival rate is 90%.

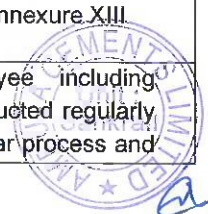
102
12/02/2017

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xi	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	For this period from April 2024 to September-2024, Under CSR intervention, expenditure of Rs. 0.66 Cr. has been made for socio-economic development of nearby villagers in 2024-25 FY (various development projects on Agriculture, Health & Sanitation, Women Empowerment, Youth Skill Development, and Rural Infrastructure have been implemented). Details attached in Annexure X.
B General Condition		
	Condition	Status of Compliance
i	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.	Noted .
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted .
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Since it is a cement grinding unit no gaseous emission occurred during process.
iv	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Stack emission [Annexure-I] & Ambient air quality [Annexure-II] data measured by third party are submitted along with this report.
v	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	No industrial waste water is generated as this is a cement grinding unit, which has a dry process plant. Domestic waste water is collected in sewage treatment plant [zero discharge concepts] and recycled and reused to minimize fresh water usage. Present water discharged from STP being used for gardening & dust suppression within plant boundary for which three 20KL tank has been installed to collect the water and further using through water tanker for dust suppression. (Annex-VIII: Figure 7.4). STP water analysis report attached in Annexure V.
vi	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	The overall noise levels are monitored in and around the plant area and are within the prescribed limits. Proper noise control measures are used in plant area and PPE are used for more than five minutes exposure of high noise area. Noise analysis report is attached in Annexure XIII.
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Health check up of all employee including contractual workmen has been conducted regularly as per Factories Act and it is a regular process and

(Signature)



		record has been maintained.
viii	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Ground water recharging is not permissible as per the NoC of West Bengal Pollution Control Board. Water savings done through Systematic Rice Intensification (SRI) cultivation and Rain water harvesting by digging pond in villages by Ambuja Cement Foundations.
ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply & health care etc.	Noted. Photographs along with detailed activities are attached in Annexure X.
x	As proposed, Rs 2.0 Crores and Rs. 0.20 Crores shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Total expenditure towards pollution control measure and environment upkeepment is INR.22 Lakhs during Apr'24 to Sep'24.
xi	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	The copies of clearance letter from Gram Panchayat has been attached as Annexure-XI No suggestion is received from the above bodies. The clearance letter has also been put in company website.
xii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	We are uploading EC compliance report along with results of all monitored data to our company website. A complete set of the same is also being forwarded to concerned authority. Online CAAQMS has been installed and started operation from the month of April 2012. Data has been continuously uploaded in CPCB server. The critical parameters are displayed on the main gate of the company. PM ₁₀ of Stack and SO ₂ , NO _x data of ambient measured online and being continuously uploaded in CPCB Website, Please refer Annexure-XIV.
xiii	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental	Noted .



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	conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.	
xiv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.	The Form-V for the year ended 31 st March 2023 has been submitted to West Bengal Pollution Control Board on 29/09/2023. It has been uploaded in website also and already submitted with last report. Annexure XII.
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 and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . 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 should be forwarded to the Regional office at Bhubaneswar.	Newspaper publications on 29 th June 2011 are enclosed in Annexure VII.
xvi	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 commencing the land development work	The copy of Noc has been sent to MoEF and Regional Office on dt 26/12/2011.



(Signature)

Annexure - I



R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001 : 2018 CERTIFIED COMPANY)
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9, BENTINCK STREET, KOLKATA - 700 001
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E-mail : rvbriggs.kolkata@gmail.com, info@rvbriggs.com
CIN : U51109WB1931PTC007007



TEST REPORT

No. AP-FG/24-25/496 Date: June 24, 2024 Page 1 of 1

Issued to : M/s. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address : Jaldhagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India

W.O. No. : 2800965037/NE13, dtd. 19.08.2023
Sample Description : Stack Emission / Flue Gas
Date & time of sampling : 20.06.2024 (02:20 P.M. to 02:40 P.M.)
Sampling Place & Method : RVB-FM/45 & IS: 11255 (Part-1, 2 & 3)
Analysis Completed on : 24.06.2024

Equipment used: ID No. RVB/SMB/00 (Cal. Validity: 18/05/25)
Parameters Tested: Physical : Temp., Velocity, gas flow
Chemical : CO, CO₂, PM

A. General Information about stack :
1. Boiler connected to : Cement Mill No.-1 (Mill Venting)
2. Emission due to : Cement Grinding
3. Material of construction of stack : M.S.
4. Shape of stack : Circular
5. Whether stack is provided with permanent platform & ladder : Yes

B. Physical characteristics of stack :
1. Height of the stack from ground level : 33.0 M
2. Diameter of the stack at sampling point : 1.05 M
3. No. of Traverse point : 12 Nos.
4. Height of the sampling point from G.L. : 22.6 M

C. Analysis / Characteristic of stack Gas / Flue Gas :
1. Fuel used : Nil
2. Fuel consumption : Nil

D. Environmental conditions :
1. Barometric pressure : 752 mmHg
2. Temperature : 34 °C

E. Results of Physical & General Parameters of stack Gas / Flue Gas :

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	75
2.	Velocity of gas in duct	IS 11255 : Part 3 : 2008	m/sec	0.95
3.	Quantity of gas flow	IS 11255 : Part 3 : 2008	Nm ³ /hr	25498
4.	Carbon monoxide	IS 13270 (By Grav) : 1992	% v/v	<0.2
5.	Carbon dioxide	IS 13270 (By Grav) : 1992	% v/v	0.2

F. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Particulate Matters	IS 11255 : Part 1 : 1995	mg/Nm ³	12	30 max.

G. Pollution control device
Details of pollution control devices attached with the stack : Bag filter

Report Verified by

END OF TEST REPORT :-

S. Mondal
(S. MONDAL)
Sr. Chemist
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.



R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001 : 2018 CERTIFIED COMPANY)
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E-mail : rvbriggs.kolkata@gmail.com, info@rvbriggs.com
CIN : U51109WB1931PTC007007



TEST REPORT

No. AP-FG/24-25/497 Date: June 24, 2024 Page 1 of 1

Issued to : M/s. AMBUJA CEMENTS LIMITED. (UNIT - SANKRAIL)
Address : Jaldhagori, Vill & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, Sankrail, Pin : 711302, West Bengal, India

W.O. No. : 2800965037/NE13, dtd. 19.08.2023
Sample Description : Stack Emission / Flue Gas
Date & time of sampling : 18.06.2024 (03:30 P.M. to 03:50 P.M.)
Sampling Place & Method : RVB-FM/45 & IS: 11255 (Part-1, 2 & 3)
Analysis Completed on : 24.06.2024

Equipment used: ID No. RVB/SMB/00 (Cal. Validity: 18/05/25)
Parameters Tested: Physical : Temp., Velocity, gas flow
Chemical : CO, CO₂, PM

A. General Information about stack :
1. Boiler connected to : Cement Mill No.-2 (Mill Venting)
2. Emission due to : Cement Grinding
3. Material of construction of stack : M.S.
4. Shape of stack : Circular
5. Whether stack is provided with permanent platform & ladder : Yes

B. Physical characteristics of stack :
1. Height of the stack from ground level : 32.0 M
2. Diameter of the stack at sampling point : 1.05 M
3. No. of Traverse point : 12 Nos.
4. Height of the sampling point from G.L. : 22.6 M

C. Analysis / Characteristic of stack Gas / Flue Gas :
1. Fuel used : Nil
2. Fuel consumption : Nil

D. Environmental conditions :
1. Barometric pressure : 752 mmHg
2. Temperature : 34 °C

E. Results of Physical & General Parameters of stack Gas / Flue Gas :

Sl No	Test Parameters	Test Method	Unit	Results
1.	Temperature of emission	IS 11255 : Part 3 : 2008	°C	88
2.	Velocity of gas in duct	IS 11255 : Part 3 : 2008	m/sec	10.32
3.	Quantity of gas flow	IS 11255 : Part 3 : 2008	Nm ³ /hr	25020
4.	Carbon monoxide	IS 13270 (By Grav) : 1992	% v/v	<0.2
5.	Carbon dioxide	IS 13270 (By Grav) : 1992	% v/v	0.2

F. Results of gaseous emission :

Sl No	Test Parameters	Test Method	Unit	Results	Norms as per CPCB
1.	Particulate Matters	IS 11255 : Part 1 : 1995	mg/Nm ³	15	30 max.

G. Pollution control device
Details of pollution control devices attached with the stack : Bag filter

Report Verified by

END OF TEST REPORT :-

S. Mondal
(S. MONDAL)
Sr. Chemist
Authorised Signatory
For R.V.BRIGGS & CO. (P) LTD.



Annexure – II



R. V. BRIGGS & CO. PRIVATE LTD.
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CIN : U51109WB1931PTC007007



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CIN : U51109WB1931PTC007007



TEST REPORT

No. AP-AN-25-2502 Date: June 27, 2024 Page 1 of 1

Issued to: M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)
Address: Jaldhaguri, VII & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, West Bengal, Pin: 711302

Sample Description: Ambient Air
Sampling Location: Near R.O. Plant (22.3420° N, 88.1142° E)
Date & Time of sampling: 27.06.2024 (10:15 AM) - 27.06.2024 (10:15 AM)
Sampling Plan: RVB/F1645
Duration of Sampling: 24hrs
Analysis Completed on: 27.06.2024

Environmental conditions:
Temperature: Max: 37.0°C & Min: 29.0°C
Barometric Pressure: 761 mmHg
Parameters tested: PM₁₀, PM_{2.5}, SO₂, NO₂, CO, Pb, Ni, As, Cu, Cd, BAP

TEST FINDINGS:

S. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as per MOEF & P Notification New Delhi, 1986 November, 2008
1.	PM ₁₀ (Size < 2.5µm)	USP41 (ISO 14644-1) Part 5, Appendix L	µg/m ³	45.0	50 (24 Hourly)
2.	PM _{2.5} (Size < 10µm)	IS 5102 (Part-2): 2008	µg/m ³	78.5	100 (24 Hourly)
3.	Sulphur Dioxide as SO ₂	IS 5102 (Part-2): 2008	µg/m ³	4.73	50 (24 Hourly)
4.	Nitrogen Dioxide as NO ₂	IS 5102 (Part-2): 2008	µg/m ³	16.75	50 (24 Hourly)
5.	Ozone as O ₃	IS 5102 (Part-2): 2008	µg/m ³	17.22	180 (1 Hourly)
6.	Ammonia as NH ₃	IS 5102 (Part-2): 2008	µg/m ³	13.50	400 (24 Hourly)
7.	Carbon Monoxide as CO	IS 5102 (Part-2): 2008	µg/m ³	0.87	04 (1 Hourly)
8.	Lead as Pb	IS 5102 (Part-2): 2008	µg/m ³	0.089	1.0 (24 Hourly)
9.	Nickel as Ni	IS 5102 (Part-2): 2008	µg/m ³	<0.0	20
10.	Arsenic as As	IS 5102 (Part-2): 2008	µg/m ³	0.250	6.0
11.	Cadmium as Cd	IS 5102 (Part-2): 2008	µg/m ³	47.0	5.0
12.	Benzene as Pyrene	IS 5102 (Part-2): 2008	µg/m ³	<0.5	1.0

Minimum detection limit: Lead: 0.01 µg/m³, Arsenic: 0.02 µg/m³, Benzene: 1 µg/m³ & Benzopyrene: 0.5 µg/m³

Report Verified by: S. Mohanlal (S. MOHANLAL) Sr. Chemist
Authorized Signatory For R.V. BRIGGS & CO. (P) LTD.

TEST REPORT

No. AP-AN-25-2502 Date: June 27, 2024 Page 1 of 1

Issued to: M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)
Address: Jaldhaguri, VII & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, West Bengal, Pin: 711302

Sample Description: Ambient Air
Sampling Location: Near Contractor's Room (22.3420° N, 88.1142° E)
Date & Time of sampling: 27.06.2024 (10:15 AM) - 27.06.2024 (10:15 AM)
Sampling Plan: RVB/F1645
Duration of Sampling: 24hrs
Analysis Completed on: 27.06.2024

Environmental conditions:
Temperature: Max: 36.0°C & Min: 28.5°C
Barometric Pressure: 761 mmHg
Parameters tested: PM₁₀, PM_{2.5}, SO₂, NO₂, CO, Pb, Ni, As, Cu, Cd, BAP

TEST FINDINGS:

S. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as per MOEF & P Notification New Delhi, 1986 November, 2008
1.	PM ₁₀ (Size < 2.5µm)	USP41 (ISO 14644-1) Part 5, Appendix L	µg/m ³	40.0	50 (24 Hourly)
2.	PM _{2.5} (Size < 10µm)	IS 5102 (Part-2): 2008	µg/m ³	69.6	100 (24 Hourly)
3.	Sulphur Dioxide as SO ₂	IS 5102 (Part-2): 2008	µg/m ³	4.08	50 (24 Hourly)
4.	Nitrogen Dioxide as NO ₂	IS 5102 (Part-2): 2008	µg/m ³	17.48	50 (24 Hourly)
5.	Ozone as O ₃	IS 5102 (Part-2): 2008	µg/m ³	17.20	180 (1 Hourly)
6.	Ammonia as NH ₃	IS 5102 (Part-2): 2008	µg/m ³	11.70	400 (24 Hourly)
7.	Carbon Monoxide as CO	IS 5102 (Part-2): 2008	µg/m ³	0.86	04 (1 Hourly)
8.	Lead as Pb	IS 5102 (Part-2): 2008	µg/m ³	0.100	1.0 (24 Hourly)
9.	Nickel as Ni	IS 5102 (Part-2): 2008	µg/m ³	<0.0	20
10.	Arsenic as As	IS 5102 (Part-2): 2008	µg/m ³	<0.25	6.0
11.	Cadmium as Cd	IS 5102 (Part-2): 2008	µg/m ³	1.50	5.0
12.	Benzene as Pyrene	IS 5102 (Part-2): 2008	µg/m ³	<0.5	1.0

Minimum detection limit: Lead: 0.01 µg/m³, Arsenic: 0.02 µg/m³, Benzene: 1 µg/m³ & Benzopyrene: 0.5 µg/m³

Report Verified by: S. Mohanlal (S. MOHANLAL) Sr. Chemist
Authorized Signatory For R.V. BRIGGS & CO. (P) LTD.



R. V. BRIGGS & CO. PRIVATE LTD.
ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001 : 2018 CERTIFIED COMPANY)
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E-mail : rvbriggs.kolkata@gmail.com, info@rvbriggs.com
CIN : U51109WB1931PTC007007



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CIN : U51109WB1931PTC007007



TEST REPORT

No. AP-AN-25-2502 Date: June 27, 2024 Page 1 of 1

Issued to: M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)
Address: Jaldhaguri, VII & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, West Bengal, Pin: 711302

Sample Description: Ambient Air
Sampling Location: Near Railway Gate (22.3420° N, 88.1142° E)
Date & Time of sampling: 27.06.2024 (10:15 AM) - 27.06.2024 (10:15 AM)
Sampling Plan: RVB/F1645
Duration of Sampling: 24hrs
Analysis Completed on: 27.06.2024

Environmental conditions:
Temperature: Max: 35.0°C & Min: 28.0°C
Barometric Pressure: 761 mmHg
Parameters tested: PM₁₀, PM_{2.5}, SO₂, NO₂, CO, Pb, Ni, As, Cu, Cd, BAP

TEST FINDINGS:

S. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as per MOEF & P Notification New Delhi, 1986 November, 2008
1.	PM ₁₀ (Size < 2.5µm)	USP41 (ISO 14644-1) Part 5, Appendix L	µg/m ³	37.5	50 (24 Hourly)
2.	PM _{2.5} (Size < 10µm)	IS 5102 (Part-2): 2008	µg/m ³	62.3	100 (24 Hourly)
3.	Sulphur Dioxide as SO ₂	IS 5102 (Part-2): 2008	µg/m ³	5.25	50 (24 Hourly)
4.	Nitrogen Dioxide as NO ₂	IS 5102 (Part-2): 2008	µg/m ³	19.02	50 (24 Hourly)
5.	Ozone as O ₃	IS 5102 (Part-2): 2008	µg/m ³	15.40	180 (1 Hourly)
6.	Ammonia as NH ₃	IS 5102 (Part-2): 2008	µg/m ³	11.20	400 (24 Hourly)
7.	Carbon Monoxide as CO	IS 5102 (Part-2): 2008	µg/m ³	0.81	04 (1 Hourly)
8.	Lead as Pb	IS 5102 (Part-2): 2008	µg/m ³	0.081	1.0 (24 Hourly)
9.	Nickel as Ni	IS 5102 (Part-2): 2008	µg/m ³	<0.0	20
10.	Arsenic as As	IS 5102 (Part-2): 2008	µg/m ³	<0.25	6.0
11.	Cadmium as Cd	IS 5102 (Part-2): 2008	µg/m ³	5.53	5.0
12.	Benzene as Pyrene	IS 5102 (Part-2): 2008	µg/m ³	<0.5	1.0

Minimum detection limit: Lead: 0.01 µg/m³, Arsenic: 0.02 µg/m³, Benzene: 1 µg/m³ & Benzopyrene: 0.5 µg/m³

Report Verified by: S. Mohanlal (S. MOHANLAL) Sr. Chemist
Authorized Signatory For R.V. BRIGGS & CO. (P) LTD.

TEST REPORT

No. AP-AN-25-2502 Date: June 27, 2024 Page 1 of 1

Issued to: M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)
Address: Jaldhaguri, VII & P.O. Dhulagori, P.S. Sankrail, Dist. Howrah, West Bengal, Pin: 711302

Sample Description: Ambient Air
Sampling Location: Near Transport Office (22.3420° N, 88.1142° E)
Date & Time of sampling: 27.06.2024 (10:15 AM) - 27.06.2024 (10:15 AM)
Sampling Plan: RVB/F1645
Duration of Sampling: 24hrs
Analysis Completed on: 27.06.2024

Environmental conditions:
Temperature: Max: 34.5°C & Min: 28.0°C
Barometric Pressure: 761 mmHg
Parameters tested: PM₁₀, PM_{2.5}, SO₂, NO₂, CO, Pb, Ni, As, Cu, Cd, BAP

TEST FINDINGS:

S. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as per MOEF & P Notification New Delhi, 1986 November, 2008
1.	PM ₁₀ (Size < 2.5µm)	USP41 (ISO 14644-1) Part 5, Appendix L	µg/m ³	36.5	50 (24 Hourly)
2.	PM _{2.5} (Size < 10µm)	IS 5102 (Part-2): 2008	µg/m ³	54.7	100 (24 Hourly)
3.	Sulphur Dioxide as SO ₂	IS 5102 (Part-2): 2008	µg/m ³	4.86	50 (24 Hourly)
4.	Nitrogen Dioxide as NO ₂	IS 5102 (Part-2): 2008	µg/m ³	18.30	50 (24 Hourly)
5.	Ozone as O ₃	IS 5102 (Part-2): 2008	µg/m ³	18.20	180 (1 Hourly)
6.	Ammonia as NH ₃	IS 5102 (Part-2): 2008	µg/m ³	12.50	400 (24 Hourly)
7.	Carbon Monoxide as CO	IS 5102 (Part-2): 2008	µg/m ³	0.72	04 (1 Hourly)
8.	Lead as Pb	IS 5102 (Part-2): 2008	µg/m ³	0.080	1.0 (24 Hourly)
9.	Nickel as Ni	IS 5102 (Part-2): 2008	µg/m ³	<0.0	20
10.	Arsenic as As	IS 5102 (Part-2): 2008	µg/m ³	<0.25	6.0
11.	Cadmium as Cd	IS 5102 (Part-2): 2008	µg/m ³	1.10	5.0
12.	Benzene as Pyrene	IS 5102 (Part-2): 2008	µg/m ³	<0.5	1.0

Minimum detection limit: Lead: 0.01 µg/m³, Arsenic: 0.02 µg/m³, Benzene: 1 µg/m³ & Benzopyrene: 0.5 µg/m³

Report Verified by: S. Mohanlal (S. MOHANLAL) Sr. Chemist
Authorized Signatory For R.V. BRIGGS & CO. (P) LTD.



Annexure - III

R. V. BRIGGS & CO. PRIVATE LTD.
ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001 : 2018 CERTIFIED COMPANY)
TAHER MANSION, 1ST FLOOR
9, BENTINCK STREET, KOLKATA - 700 001
Phone : (033) 4044-3380/3381/3382 / 3383, Website : www.rvbriggs.com
E-mail : rvbriggs.kolkata@gmail.com, info@rvbriggs.com
CIN : U51109WB1931PTC007007



R. V. BRIGGS & CO. PRIVATE LTD.
ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001 : 2018 CERTIFIED COMPANY)
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CIN : U51109WB1931PTC007007



TEST REPORT

No. AP-WAQ/24-25136 Date: June 28, 2024 Page 1 of 1

Issued to : M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)
Address : Jalahulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302

Your Ref. No. : PO No. 2800965037, dt. 18.08.2023
Sample Description : Fugitive Air
Sampling Location : Plot 1 & 2 (Ground Floor)
Date & Time of sampling : 17.08.2024 (09:50 A.M. - 09:50 P.M.)
Sampling Plan : RVBFM45
Duration of Sampling : 08Hrs.
Analysis Completed on : 25.08.2024

Equipment used : ID No: RVBROSAFPM45B/04
Cal. Valid upto: 04.11.2024
Environmental conditions : Temperature : Max 30°C & Min 34.5°C
Barometric Pressure : 761 mmHg
Parameters Tested : RPM, SPH, SO₂, NO₂

S. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part-2): 2006	µg/m ³	2168	5000
2.	Suspended Particulate Matter	IS 5182 (Part-4): 1999	µg/m ³	5408	10000
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part-2): 2006	µg/m ³	4.45	5000
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part-6): 2006	µg/m ³	15.83	5000

Report Verified by : *S. Mondal*
(S. MONDAL)
Sr. Chemist
Authorized Signatory
For R.V. BRIGGS & CO. (P) LTD.

TEST REPORT

No. AP-WAQ/24-25137 Date: June 28, 2024 Page 1 of 1

Issued to : M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)
Address : Jalahulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302

Your Ref. No. : PO No. 2800965037, dt. 18.08.2023
Sample Description : Fugitive Air
Sampling Location : Plot 3 & 4
Date & Time of sampling : 18.08.2024 (08:30 A.M. - 08:30 P.M.)
Sampling Plan : RVBFM45
Duration of Sampling : 08Hrs.
Analysis Completed on : 25.08.2024

Equipment used : ID No: RVBROSAFPM45B/04
Cal. Valid upto: 04.11.2024
Environmental conditions : Temperature : Max 30°C & Min 31.5°C
Barometric Pressure : 761 mmHg
Parameters Tested : RPM, SPH, SO₂, NO₂

S. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part-2): 2006	µg/m ³	1753	5000
2.	Suspended Particulate Matter	IS 5182 (Part-4): 1999	µg/m ³	4404	10000
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part-2): 2006	µg/m ³	4.89	5000
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part-6): 2006	µg/m ³	14.75	5000

Report Verified by : *S. Mondal*
(S. MONDAL)
Sr. Chemist
Authorized Signatory
For R.V. BRIGGS & CO. (P) LTD.

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Phone : (033) 4044-3380/3381/3382 / 3383, Website : www.rvbriggs.com
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CIN : U51109WB1931PTC007007



TEST REPORT

No. AP-WAQ/24-25138 Date: June 28, 2024 Page 1 of 1

Issued to : M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)
Address : Jalahulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302

Your Ref. No. : PO No. 2800965037, dt. 18.08.2023
Sample Description : Fugitive Air
Sampling Location : Cement Mill (Ground Floor)
Date & Time of sampling : 20.08.2024 (09:50 A.M. - 09:50 P.M.)
Sampling Plan : RVBFM45
Duration of Sampling : 08Hrs.
Analysis Completed on : 25.08.2024

Equipment used : ID No: RVBROSAFPM45B/04
Cal. Valid upto: 04.11.2024
Environmental conditions : Temperature : Max 30°C & Min 32.0°C
Barometric Pressure : 761 mmHg
Parameters Tested : RPM, SPH, SO₂, NO₂

S. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part-2): 2006	µg/m ³	2226	5000
2.	Suspended Particulate Matter	IS 5182 (Part-4): 1999	µg/m ³	3043	10000
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part-2): 2006	µg/m ³	4.22	5000
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part-6): 2006	µg/m ³	15.30	5000

Report Verified by : *S. Mondal*
(S. MONDAL)
Sr. Chemist
Authorized Signatory
For R.V. BRIGGS & CO. (P) LTD.

R. V. BRIGGS & CO. PRIVATE LTD.
ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
(AN ISO 9001:2015 & ISO 45001 : 2018 CERTIFIED COMPANY)
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9, BENTINCK STREET, KOLKATA - 700 001
Phone : (033) 4044-3380/3381/3382 / 3383, Website : www.rvbriggs.com
E-mail : rvbriggs.kolkata@gmail.com, info@rvbriggs.com
CIN : U51109WB1931PTC007007



TEST REPORT

No. AP-WAQ/24-25145 Date: June 28, 2024 Page 1 of 1

Issued to : M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)
Address : Jalahulagori, Vill & P.O. Dhulagori, P.S. Sankrail, Howrah-711302

Your Ref. No. : PO No. 2800965037, dt. 18.08.2023
Sample Description : Fugitive Air
Sampling Location : Loading Bay
Date & Time of sampling : 17.08.2024 (03:30 A.M. - 03:30 P.M.)
Sampling Plan : RVBFM45
Duration of Sampling : 08Hrs.
Analysis Completed on : 25.08.2024

Equipment used : ID No: RVBROSAFPM45B/04
Cal. Valid upto: 04.11.2024
Environmental conditions : Temperature : Max 30°C & Min 34.0°C
Barometric Pressure : 761 mmHg
Parameters Tested : RPM, SPH, SO₂, NO₂

S. No.	Parameters	Test Method	Unit	Results (Time Weighted Avg.)	Norms as per Factory Act, 1948 (Time weighted average concentration)
1.	Respirable Particulate Matter	IS 5182 (Part-2): 2006	µg/m ³	1664	5000
2.	Suspended Particulate Matter	IS 5182 (Part-4): 1999	µg/m ³	4027	10000
3.	Sulphur Dioxide as SO ₂	IS 5182 (Part-2): 2006	µg/m ³	4.75	5000
4.	Nitrogen Dioxide as NO ₂	IS 5182 (Part-6): 2006	µg/m ³	15.48	5000

Report Verified by : *S. Mondal*
(S. MONDAL)
Sr. Chemist
Authorized Signatory
For R.V. BRIGGS & CO. (P) LTD.



Annexure – IV

FORM 4
(See Rules 9(3) and 10(3))
MEMBER OR IN CHARGE OF THE CONCERNED AUTHORITY
PERMIT FOR SINKING OF NEW WELL
(Under 7(3)(b) / 7(4)(b) / 7(5) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.)
PERMIT NO. **PD68900201074000001TLE**

033730

1. (a) Name of the applicant (user) : Smt. **AMBUJA CEMENTS LTD**
(b) Son/Daughter of : **DHULAGORI, SANKRAIL**
(c) Address of the applicant : **Small Farmer / Marginal Farmer / Other**
(d) Category of farmer (Please tick) : **BP/H, 0157, S.L. No. 7, 2-3-2011**
(e) Serial No. of application Form and date of submission : **Annul**
(f) Specimen signature of the user : **Annul**

2. Location particulars—
(a) District : **HOWRAH**
(b) Block, Mouza, J.L. No., Plot No. : **SANKRAIL, SALADHULAGORI, 602, 1079**
(c) Municipality / Corporation : **N.A.**
(d) Ward No. / Borough No., Holding No. : **N.A.**

3. Particulars of the proposed well and pumping device—
(a) Type of the well : **TUBE WELL**
(b) Approx. depth of the well (m) : **250 m.**
(c) Purpose of the well : **Industrial**
(d) Assembly size (for tube well) : **200 mm X 200 mm**
(e) Approx. strainer length (for tube well) : **30 m.**
(f) Diameter (for dug well) : **N.A.**
(g) Type of pump to be used : **SUBMERSIBLE**
(h) H.P. of the pump : **50 H.P.**
(i) Operational device : **ELECTRIC MOTOR**
(j) Rate of withdrawal (m³/hr.) : **30 m³/hr.**
(k) Maximum allowable running hours per day : **6 hr./day**

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (k), and is valid subject to the observance of the conditions stated overleaf.

Place : **HOWRAH**
Date : **21/6/2011**

Office Seal : **HOWRAH**
Signature of the Competent Authority : **21/6/2011**
Member Secretary : **HOWRAH DISTRICT**
Ground Water Resources Development Authority

Conditions:
(1) In case of any change of ownership of the proposed well, fresh application has to be submitted.
(2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well at the time of its operation shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
(3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
(4) Any other condition imposed by the concerned Authority.

BCL/450/000/06

FORM 4
(See Rules 9(3) and 10(3))
MEMBER OR IN CHARGE OF THE CONCERNED AUTHORITY
PERMIT FOR SINKING OF NEW WELL
(Under 7(3)(b) / 7(4)(b) / 7(5) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.)
PERMIT NO. **PD68900201963000000ITSE**

033730

1. (a) Name of the applicant (user) : **Smt. M/S. ANANDA CEMENTS LTD**
(b) Son/Daughter of : **N.A.**
(c) Address of the applicant : **Dhulagori, Sankrail, Howrah**
(d) Category of farmer (Please tick) : **Small Farmer / Marginal Farmer / Other**
(e) Serial No. of application Form and date of submission : **BP/H, 0157, S.L. No. 7, 2-3-2011**
(f) Specimen signature of the user : **Annul**

2. Location particulars—
(a) District : **Howrah**
(b) Block, Mouza, J.L. No., Plot No. : **Sankrail / Taladhulagori / 602**
(c) Municipality / Corporation : **Plot - 1963**
(d) Ward No. / Borough No., Holding No. : **N.A.**

3. Particulars of the proposed well and pumping device—
(a) Type of the well : **Tube Well**
(b) Approx. depth of the well (m) : **250m**
(c) Purpose of the well : **Domestic**
(d) Assembly size (for tube well) : **127 mm X 76.2mm**
(e) Approx. strainer length (for tube well) : **18 m.**
(f) Diameter (for dug well) : **N.A.**
(g) Type of pump to be used : **Submersible**
(h) H.P. of the pump : **3.5 H.P.**
(i) Operational device : **Electric Motor**
(j) Rate of withdrawal (m³/hr.) : **15 m³/hr.**
(k) Maximum allowable running hours per day : **6 hr./day**

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (k), and is valid subject to the observance of the conditions stated overleaf.

Place : **Howrah**
Date : **13/2/12**

Office Seal : **HOWRAH**
Signature of the Competent Authority : **Chinnoy Roy**
Member Secretary : **HOWRAH DISTRICT**
Ground Water Resources Development Authority

Conditions:
(1) In case of any change of ownership of the proposed well, fresh application has to be submitted.
(2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well at the time of its operation shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
(3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
(4) Any other condition imposed by the concerned Authority.


It is recorded that mandatory exchange structures in the Complex should be done.
Choy.


BCL/450/000/06



9

Annexure – V


R. V. BRIGGS & CO. PRIVATE LTD.
 ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
 (AN ISO 9001:2015 & ISO 45001 : 2018 CERTIFIED COMPANY)
 TANKER MANSION, 1ST FLOOR
 9, BENTINCK STREET, KOLKATA - 700 001
 Phone : (033) 4044-3080 / 3381 / 3382 / 3383, Website : www.rvbriggs.com
 E-mail : rvbriggs.kolkata@gmail.com, info@rvbriggs.com
 CIN : U51109WB1931PTC067007


 TC-1247

TEST REPORT

Certificate No. E/ID/24-25/1467	Issue Date: 27 September 2024	Page 1 of 1
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Issued to : Your Ref. No. : Description of Sample : Collection Source : Sample Drawn by us on : Sample Carried out by : Sampling Plan : Analysis Started on : Analysis completed on : Sample collection Procedure : Mode of Sampling : Environmental condition during sampling :	M/s. AMBUJA CEMENTS LIMITED, Sankrail Unit, Vill -Sankrail, Vill PO- Dhulagori , Po- Sankrail, Dist - Howrah -711302. E-mail dtd.21.09.2024 Effluent STP Outlet 23.09.2024 at 3:30 P.M. Mr. B. Manna RVB/PM/45 23.09.2024 27.09.2024 APHA 24th Edition 1990 Grab Temperature : 28°C, Transported in ice box, Cold chain maintained
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Parameter Tested:
 pH, TSS, O & G, BOD, COD


TEST FINDINGS:


Sr. No.	Test Parameters	Test Method	Unit	Results	Limit as per Environmental Protection Act, MDC & F for Effluent discharged into Inland surface water
1	pH Value	APHA 24th edition 4500H+D	---	8.72	5.5 – 9.0
2	Total Suspended Solids (TSS)	APHA 24th edition 2540D	mg/l	32	100 (Max.)
3	Oil & Grease (O & G)	APHA 24th edition 5520B	mg/l	< 2	10 (Max.)
4	Biochemical Oxygen Demand for 5 days at 27°C (BOD)	IS 3025 : Part 58 : 1993	mg/l	16	50 (Max.)
5	Chemical Oxygen Demand (COD)	APHA 24th edition 5220B	mg/l	54	250 (Max.)

Remarks: The sample of Effluent complies with Environmental Protection Act, MDC & F for effluent discharged into Inland Surface water in respect of above mentioned parameters.

Note: Minimum Detection Limit of Oil & Grease = 2 mg/l

= END OF TEST REPORT =

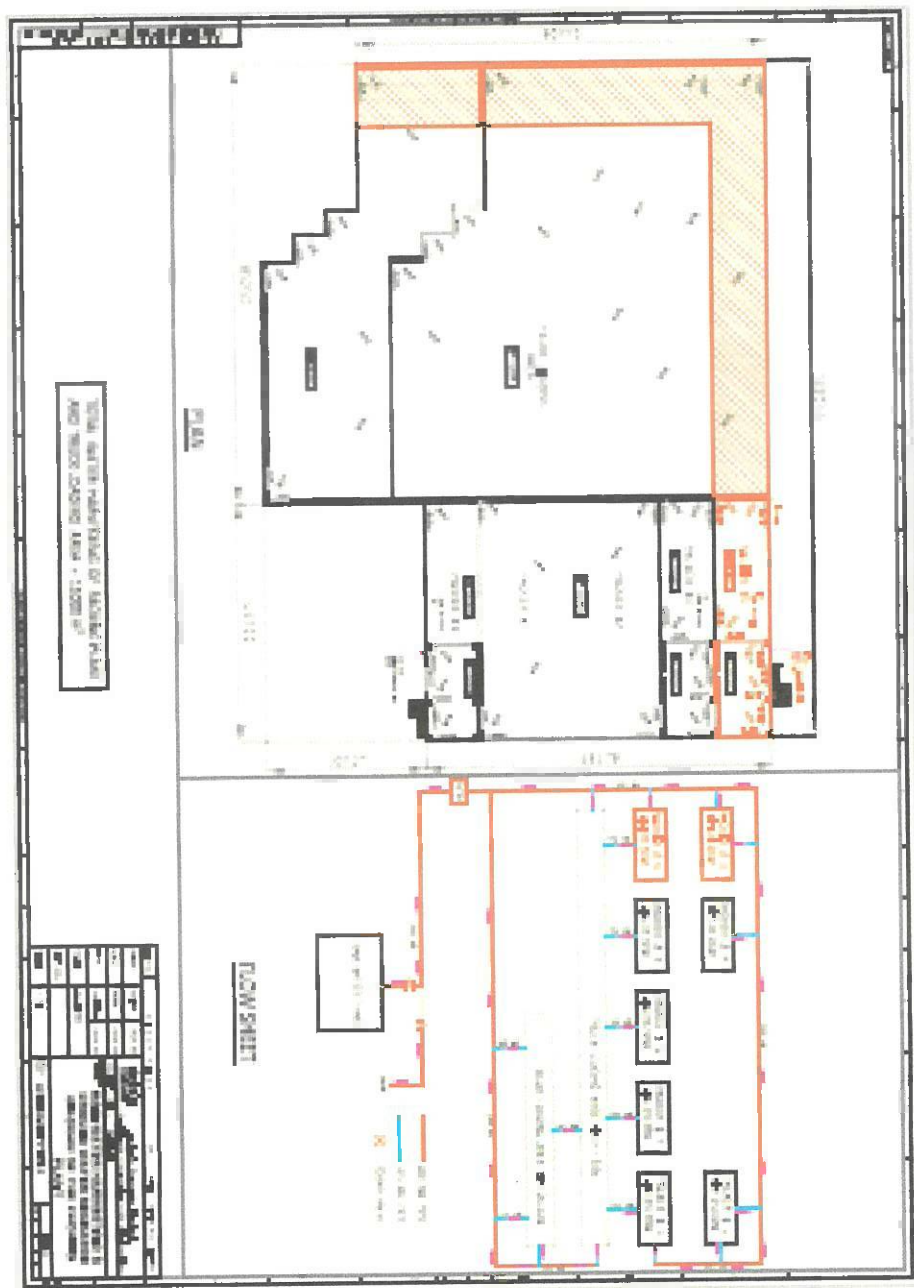

 Report Verified by


Dr. R. KARIM
 Technical Manager
 Authorized Signatory
 For R.V. BRIGGS & CO. PRIVATE LTD.

* The test report shall not be reproduced, except in full, without written approval of the Company.
 * Results relate only to the parameters tested.



Annexure - VI



9

Annexure - VIII

AMBUJA SANKRAIL HAS ADEQUATE MEASURES TO CONTROL FUGITIVE DUST EMISSION

1. All transfer points and storage silos are provided with dust collection and extraction systems for effective control of fugitive emissions.

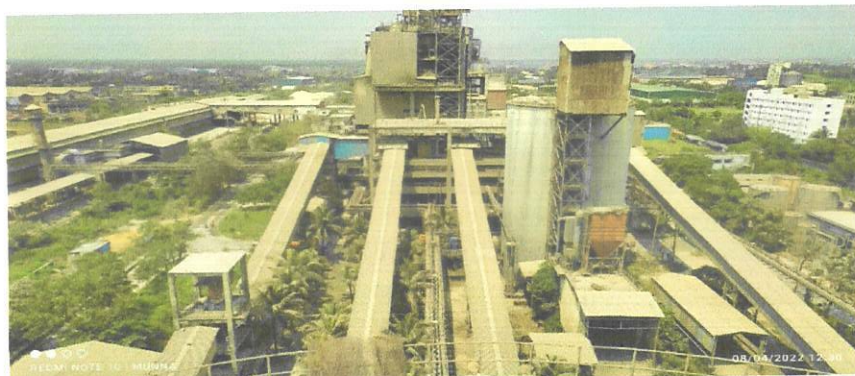


Fig 1.1

All transfer points and storage silos are covered and provided with bag filters

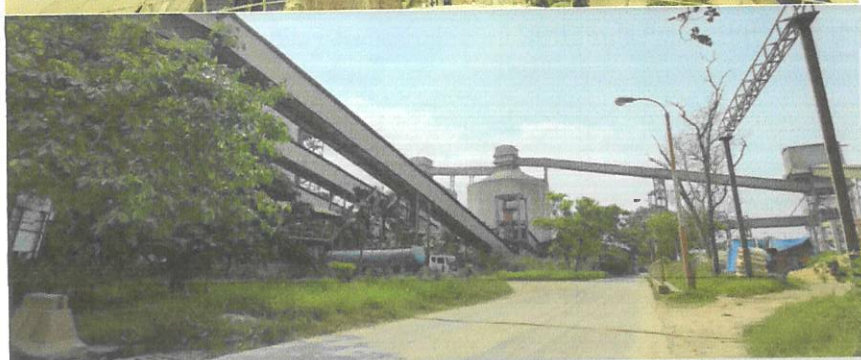


Fig 1.2

All Belt Conveyors are covered and enclosed with GI Sheets



Fig 1.3

All process Machineries are 100% covered



Fig 1.4

Environment control measures are in place across the plant



2. Clinker, Fly Ash and finished products are stored covered concrete silos with Bag Filters

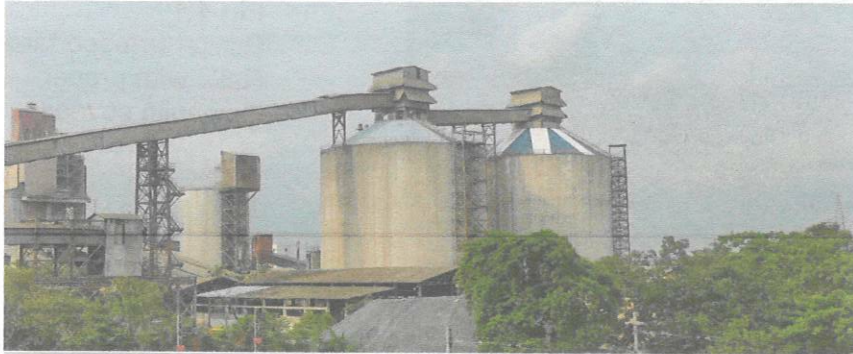


Fig 2.1

Clinker is stored in closed concrete Silos (Capacity – $25000 \times 2 = 50,000$ MT). De-dusting Bag Filters are provided for both the silos



Fig 2.2

Finished products (Cement) is stored in closed concrete Silos (Capacity: $5000 \times 4 = 20,000$ MT). De-dusting Bag Filters are provided for all 4 silos

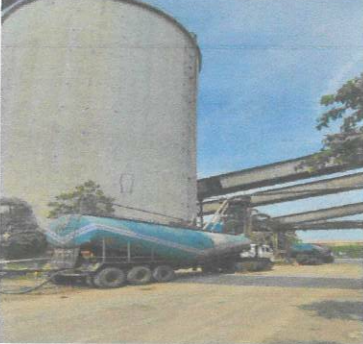


Fig 2.3

Dry Fly Ash is stored in closed concrete Silos (Capacity: 4000 MT). De-dusting Bag Filters is provided on top of silo

3. Covered Shed and Tarpaulin covered for Raw Materials (Gypsum, Slag)



Fig 3.1

Gypsum and Slag are stored in Steel Shed



Fig 3.2

Gypsum and Slag kept outside of shed - are covered with proper Tarpaulin with Bamboo structure.

4. Raw Material Transport with mechanized unloading /Handling

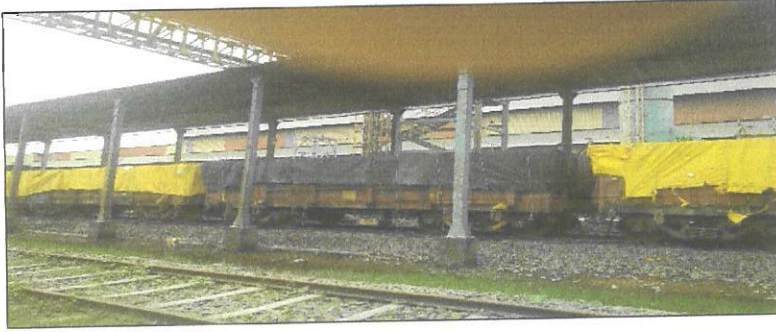


Fig 4.1
Clinker transportation by
Rake with proper
Tarpaulin covering

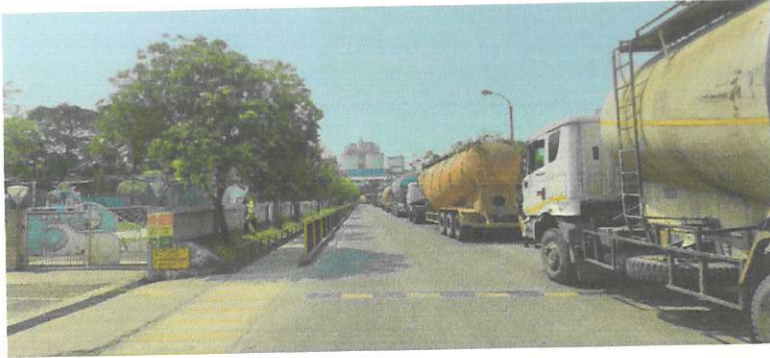


Fig 4.2
Dry Fly Ash
transportation by Closed
Bulkers

5. Mechanized Unloading & Handling of Raw Materials



Fig 5.1
Clinker unloading by
Mechanised system -
Wagon Tippler with de-
dusting Bag Filter



Fig 5.2
Dry Fly Ash directly
unloaded in Fly Ash Silo
by Pneumatic System



9

5. Concreting of roads, Road Sweeping Machines and water spray all around areas in the cement plant to control fugitive emissions.



Fig 6.1
100% concrete road
provided for vehicles
movement

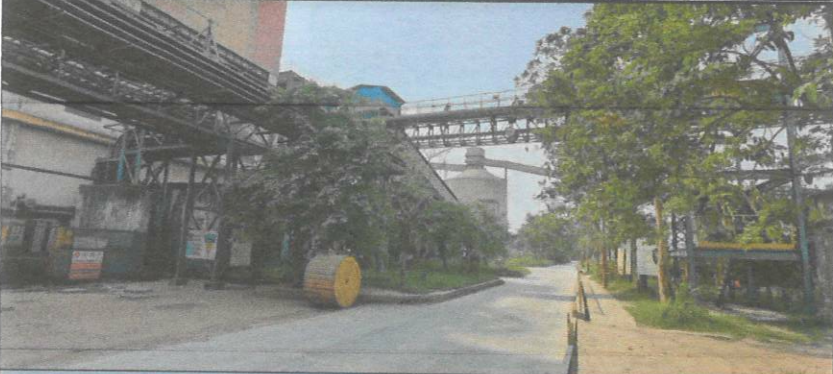


Fig 6.2
100% concrete floors
provided inside plant

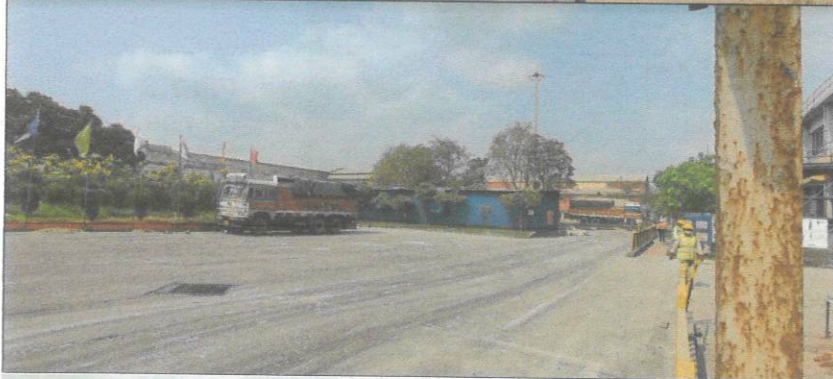


Fig 6.3
100% Concrete Parking
yard for Truck Parking
with fish Bone
arrangement



7. Segregation of Vehicle movements, Road Sweeping Machines and water spray all around areas in the cement plant to control fugitive emissions.

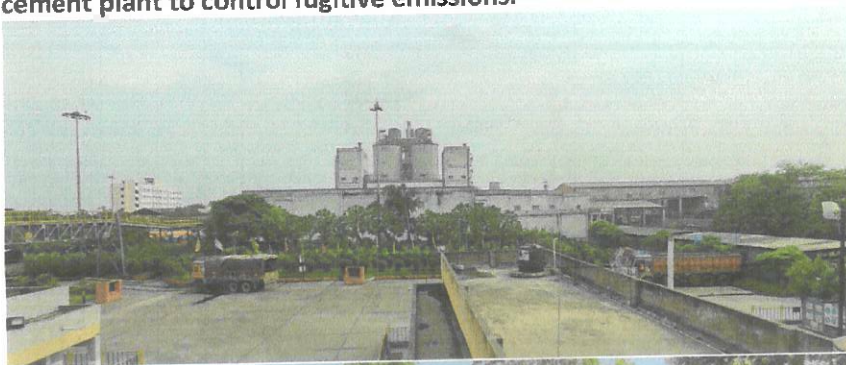


Fig 7.1

Segregation of vehicle movement and man are provided



Fig 7.2

02 nos of Dedicated TPS - Vacuum Road Sweeping Machines for continuous road cleaning

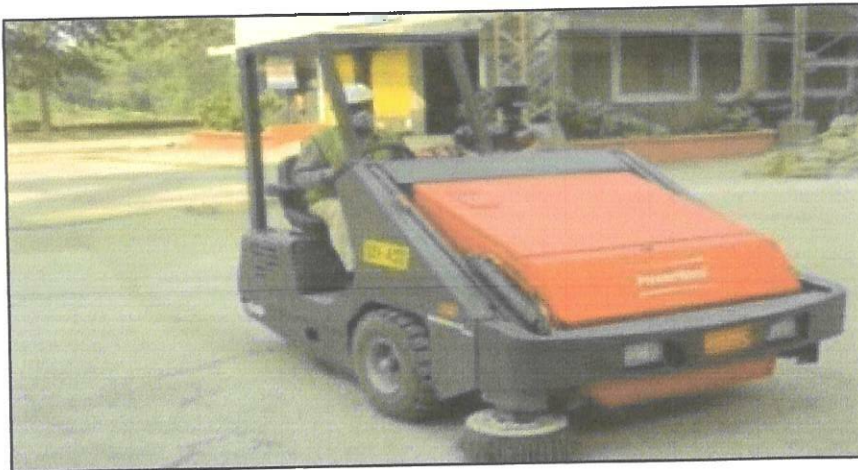


Fig 7.3

02 nos of Small Road Sweeping Machines for continuous road cleaning

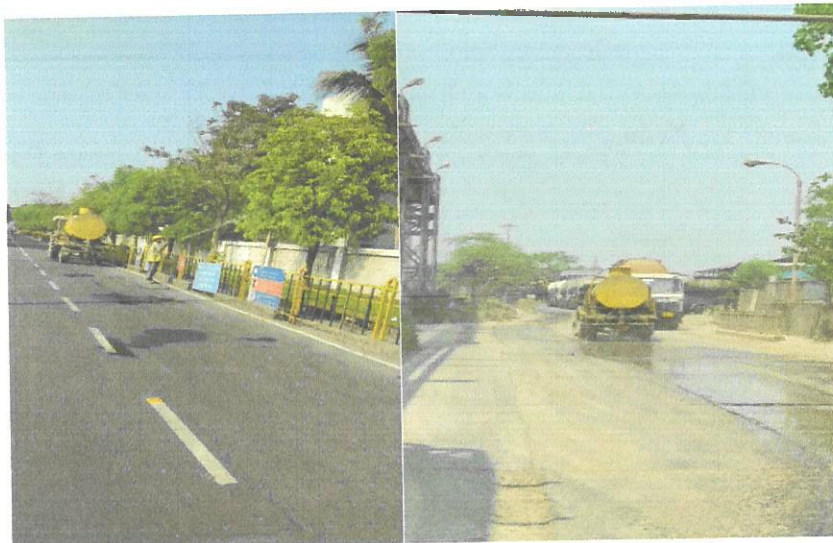


Fig 7.4

01 dedicated water sprinkler for continuous water spraying on roads

ey



8. Automatic Cement bag packing & mechanised loading systems for trucks and rakes

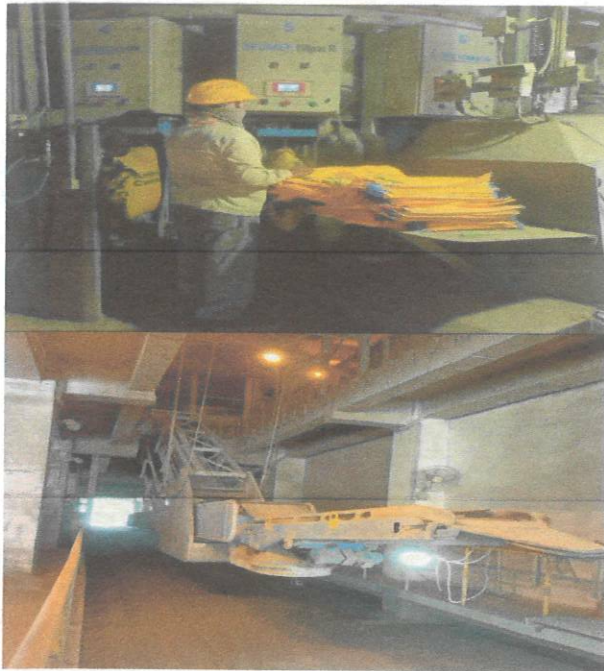


Fig 8.1
04 nos Automatic
Cement Bag Packing
Machines with de-
dusting systems

Fig 8.2
08 nos Mechanised
Cement Bag Truck
Loading Machines

9. Environment Management System (CAQMS -Continuous Ambient Air quality monitoring station, CEMS- Continuous Emission Monitoring System)

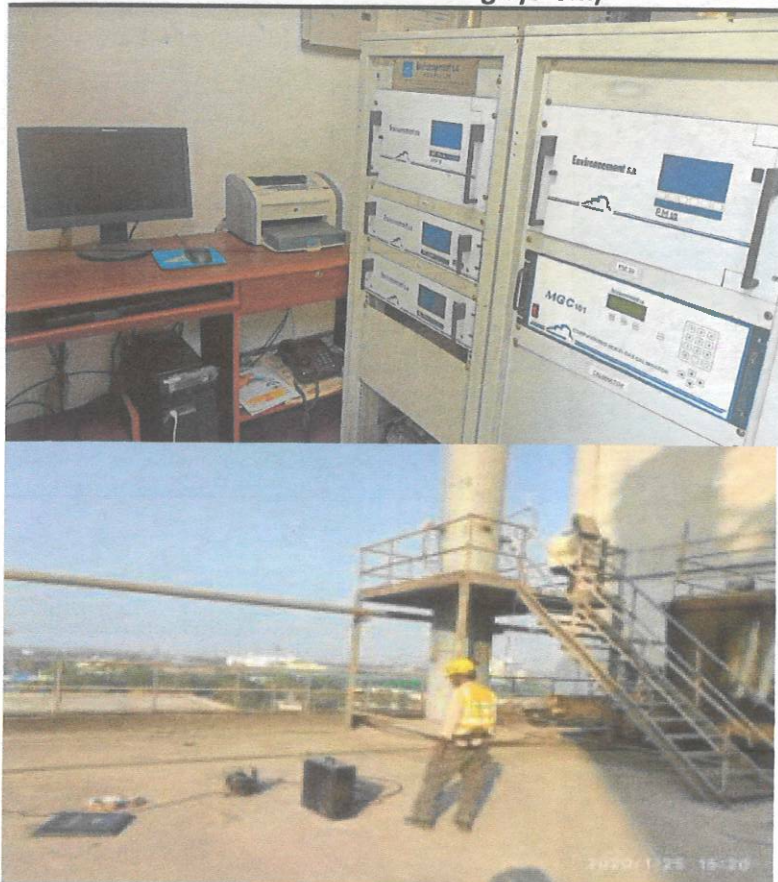


Fig 9.1
Continuous Ambient Air
quality monitoring station
installed in plant premises
which is connected to PCB
portals

Fig 9.2
Continuous Emission
Monitoring System
installed at xx Stakes



CSR Expenditure Made Till Oct, 2024: Rs. 19.32 Lakhs

Women Empowerment Programme:

- Under Women Empowerment Programme, handholding support has been extended to 1735 rural women and 133 Self Help Groups (SHGs) regarding internal lending, training capacity building, and income generating activities like small business, vegetable vending, Goat, Poultry rearing, Mushroom and etc.
- All SHGs have been linked with State Rural Livelihood Mission (SRLM).
- AF organized 30 training SHG 6 Module and 818 women members participated
- AF organized 12 skill enhancement training (no. of participant – 322) to promote income generating activities
- Currently 1396 members are engaged with income generating activities
- 20 Backyard Poultry Houses have been constructed at core villages



Ayaz





CSR Expenditure Made – Rs. 7.38 Lakhs

Skill & Entrepreneurship Development Institute:

- Under youth skill development 282 rural youths have been trained in different job roles like Mobile Phone Repairing, Beauty & Wellness, Automobile, Customer Care Executive, Sales Executive, BCBF & Sewing Machine Operator & 149 youths have been placed through wage employment and self-employment and training of 147 youths is on-going.
- New courses BCBF introduced



CSR Expenditure Made Till Oct, 2024 – Rs. 11.85 Lakhs

Rural Infrastructure, Education & Others:

- Constructed 1 Water ATM at Mohisgote Village
- Renovation of Roof Top at 1 Primary School
- Renovation of Roof Top at Rural Hospital
- Installed 80 streetlights in core villages
- Renovation of Hand Pumps
- Organized 10 Blood Donation Camps & other social events
- Organized Stakeholder engagement events

CSR Expenditure Made Till Oct, 2024 – Rs. 11.55 Lakhs

Ambuja Ltd.



AMBUJA CEMENTS LIMITED UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2023- 2024

Women Empowerment Programme

- Under Women Empowerment Programme, handholding support has been extended to 1735 rural women and 135 Self Help Groups (SHGs) regarding internal fencing, training capacity building, and income generating activities like small business, vegetable vending, Goat, Poultry rearing, Zan Work, Mushroom and etc.
- All SHGs have been linked with State Rural Livelihood Mission (SRLM).
- ACF organized 81 skill enhancement training to promote income generating activities.
- Currently 1886 members are engaged with income generating activities.
- Training and handholding support provided to 150 women to start poultry.
- Conducted Women Sports with 600 women and Celebrate International Women's Day.



Expenditure Made - Rs. 19.31 Lakhs

Skill & Entrepreneurship Development Institute

- Under youth skill development 540 rural youths have been trained in different trades like Mobile Phone Repairing, Beauty & Wellness, Automobile Care, Computer Care, Executive Sales Executive, EV Technician & Sewing Machine Operator and 10% (70%) youths have been placed through wage employment and self employment.

AMBUJA CEMENTS LIMITED UNIT: SANKRAIL

ANNUAL ENVIRONMENTAL STATEMENT

2023- 2024

- Focusing Gender perspective through skilling, ACF have trained 180 female youths have been trained.
- New courses like EV Service Technician introduced.



Expenditure Made - Rs. 47.19 Lakhs

Rural Infrastructure, Education & Others

- Constructed 1 Children's Park with proper fencing.
- School renovation work at 2 primary schools & 2 ICDS Centres.
- Constructed 1 km concrete road in core villages.
- Installed 120 street lights in core villages.
- Retail materials have been distributed during rainy season.
- Renovation of RO Plant.
- A village level football tournament was organized.
- Organized 15 Bayad Operation Camps & other social events.
- Organized Stakeholder engagement events.

Expenditure Made - Rs. 50.49

Current Year Plan

- Under CSR activity an expenditure of Rs. 2.6 Cr will be done on various activities like renovation of schools, hospitals, ICDS Centre, Construction Roads, Community Halls, Installation of Street Lights, Development Production Centre for SHG women, job fair for rural youths, Health Camps for rural women and distribution of medicines and etc. as per the community need. Currently a plan of Rs. 70 lakhs has been made and work are under progress.

Annexure - XIII



R. V. BRIGGS & CO. PRIVATE LTD.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

(AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED COMPANY)

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E-mail: rvbriggs.kolkata@gmail.com, info@rvbriggs.com

CIN: U51109WB1901PTC007007



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CIN: U51109WB1901PTC007007



TEST REPORT

No. AP-BL/24-25/ACU/426 Date: June 28, 2024 Page 1 of 1

Issued to: M/S. AMBUJA CEMENTS LIMITED (UNIT - SANKRAIL)

Address: Jaledhulagori, Vill & P.O. Dhulagori, P.S. Sankrail Dist. Howrah,

Sankrail, Pin 711302, West Bengal, India

Your Ref. No. PO No. 280096037, dtd. 19.08.2023

Description of Sample: Sound Level Monitoring

Date of Monitoring: 19.08.2024 to 20.08.2024

Parameters Tested: L_{eq}, L₉₀, L₅₀, L₁₀, L₅, L₁, L_{0.1}, L_{0.01}

Test Method: IS 4754 - 1968

Sound Level Monitoring at Work Zone Location:

Sl. No. Locations Day Time (06.00 A.M. to 10.00 P.M.) Night Time (10.00 P.M. to 06.00 A.M.)

Sound Level in dB(A) Sound Level in dB(A)

L_{eq} L₉₀ L₅₀ L₁₀ L₅ L₁ L_{0.1} L_{0.01}

01 Incoming Weight Bridge (WB) 56.8 59.4 57.9 51.4 54.1 52.9

02 Truck Yard 1 (Near Cement) 61.2 65.3 63.6 54.2 57.1 56.0

03 Loading Bay 57.4 72.4 69.9 60.8 64.2 62.9

04 E & I work Shop 53.8 66.7 65.0 50.2 59.2 56.8

05 Mechanical shop 72.4 77.1 75.4 90 dB(A) 64.8 66.4 66.6 90 dB(A)

06 Near Wagon Tipper 81.2 86.7 84.3 70.1 75.1 73.4

07 Compressor Room 86.4 89.4 87.5 80.1 85.6 83.5

08 Inside Physiol Lab 54.2 58.2 57.2 50.1 57.6 53.6

09 Between Mill 1 & 2 97.4 100.8 99.4 92.1 96.5 94.6

Note: L_{eq} - Equivalent sound energy

Report Verified by: (Dr. R. KARIM) Technical Manager, Authorized Signatory, For R.V. BRIGGS & CO. (P) LTD.

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Annexure – XIV

