

Ambuja Cement

Ref: ACL/BYT/ENV/2022-23/19

Date: 16.05.2022

To,
Regional Officer,
Integrated Regional office,
Ministry of Environment, Forest & Climate Change, Aranya Bhawan, North Block,
Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh 492002.

Sub: Submission of Half Yearly Environment Clearance Compliance Report along with Environmental Monitoring Report for the period **October 2021 to March 2022** for Cement Plant Complex of Ambuja Cements Ltd (Unit-Bhatapara), Chhattisgarh.

Ref:

1. EC letter no. J-11011/289/2005-IA II (I) dated 6th January 2006.
2. EC letter no. J-11011/355/2005-IA II (I) dated 13th April 2007.
3. EC letter no. J-11011/539/2008-IA II (I) dated 23th December 2008.
4. EC letter no. J-11011/72/2009-IA II (I) dated 15th May 2009.
5. EC letter no. J-11011/72/2009-IA II (I) dated 13th May 2011.
6. EC letter no. J-11011/355/2005-IA II (I) dated 25th Jan 2016.

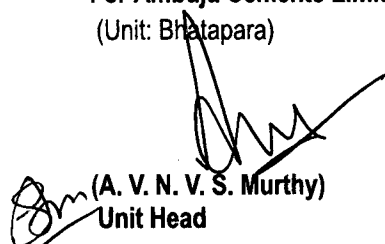
Dear Sir,

Please find the enclosed herewith the six monthly Environment Clearance compliance report along with Monthly Environmental Monitoring report from **October 2021 to March 2022**, for Cement Plant Complex of Ambuja Cements Ltd (Unit-Bhatapara), at Village & Post office-Rawan, Distt. Balodabazar, Chhattisgarh.

This is for your kind information and record.

Thanking you.

Yours Sincerely,
For Ambuja Cements Limited
(Unit: Bhatapara)


(A. V. N. V. S. Murthy)
Unit Head

Encl.: Six Monthly Environment Clearance compliance report along with Environment Monitoring report.

Copy to:

1. Central Pollution Control Board, Zonal Office, Sahkar Bhawan, North T.T. Nagar, Bhopal -462003.
2. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, North Block Sector-19, Atal Nagar (C.G.) 490099.
3. The Regional Officer, CECB, Kabir Nagar Commercial Complex, Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur (C.G.)

AMBUJA CEMENTS LIMITED

(Unit - Bhatapara)

P.O. - Rawan, Tehsil : Balodabazar, District : Balodabazar-Bhatapara, Chhattisgarh-493 331

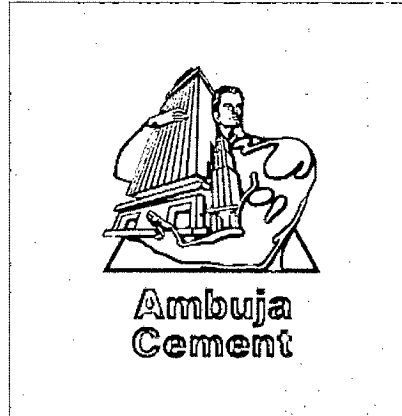
Ph : 07727-220010 to 15, Fax : 07727-220004

CIN : L2694GJ1981PLC004717, Website : www.ambujacement.com

Registered Office : P.O. - Ambuja Nagar, Taluka - Kodinar, District - Gir Somnath, Gujarat, 362 715

**ENVIRONMENT CLEARANCE HALF YEARLY
COMPLIANCE REPORT FOR THE PERIOD
(OCTOBER 2022 – MARCH 2022)**

OF



**M/S AMBUJA CEMENTS LTD.
(UNIT-BHATAPARA)**

**P.O.: RAWAN, DIST.: BALODA BAZAR - BHATAPARA
CHHATTISGARH - 493331**

1. EC letter no.J-11011/289/2005-IA II (I) dated 6th January, 2006.
2. EC letter no.J-11011/355/2005-IA II (I) dated 13th April, 2007.
3. EC letter no.J-11011/539/2008-IA II (I) dated 23rd December, 2008.
4. EC letter no.J-11011/72/2009-IA II (I) dated 15th May, 2009.
5. EC letter no.J-11011/72/2009-IA-II (I) dated 13th May, 2011.
6. EC letter no.J-11011/355/2005-IA II (I) dated 25th January,2016.

**Compliance of the conditions stipulated in the environmental clearance accorded by
MOEFCC for production enhancement from 1.2 MTPA TO 1.8 MTPA cement production.**

Ref. No. J-11011/289/2005-IA II (I), Date: 6th January 2006

Sr. No.	EC Conditions	Compliance Status as on 10 May 2022
A. Specific Conditions		
i.	<p>The gaseous and particulate matter emissions from various units should conform to the standards prescribed by the State Pollution Control Board. At no time the particulate emissions from the cement plant and captive power plant (CPP) shall exceed 50 mg/Nm³. Regular lime injection at Circulating Fluidized Bed Combustion (CFBC) boiler must be ensured to reduce SO₂ emissions. NO_x burners should be installed to control NO_x emissions. Continuous on-line monitors for particulate emissions will be installed. Interlocking facility should be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.</p>	<p>Complied.</p> <p>Cement Plant and Captive Power Plant are equipped with pollution control equipment (i.e. Bag filters, Glass Bag House & ESP) of adequate capacity to achieve Particulate Matter emission as per the new Notification dated 10th May 2016. Regular lime injection at boiler to reduce SO₂ emissions as per the new Notification dated 10th May, 2016 at Captive TPP.</p> <p>Our APC are having adequate capacity and the particulate emissions from the cement plant and captive power plant (CPP) are maintained below 50 mg/Nm³. Interlocking facilities are also installed, in case of failure of APC the respective units get automatically shut off.</p> <p>CEMS (PM, SO₂ & NO_x) has been installed in cement plant and Power Plant and connectivity provided to CPCB portal, New Delhi and CECB Atal Nagar, Nay Raipur. Interlocking system is provided in pollution control equipments. CEMS data of Cement Plant Line-I&II can be seen on URL- http://rtdms.cpcb.gov.in/industry-login and CEMS data of CPP can be seen on URL -http://rtdms.cpcb.gov.in/industry-login Photographs of Pollution control equipments are shown in Annexure I (Page No 11).</p> <p>Cement plant stacks monitoring report enclosed as Annexure II (Page No 12-13,15-24)</p>

ii.	<p>Ambient air quality including ambient noise levels must not exceed the Stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with CECB and report submitted to the Board quarterly and to the Ministry's Regional Office at Bhopal half-yearly. Continuous stack monitoring system should be installed.</p>	<p>Complied</p> <p>Four (4) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in consultation with CECB and result can be seen on URL- http://www.envsaindia.com/cpcb/industry.php.</p> <p>CEMS (PM, SO₂ & NO_x) has been installed in cement plant and Power Plant and connectivity provided to CPCB portal, New Delhi and CECB Atal Nagar, Naya Raipur.</p> <p>CEMS has been installed in all the stacks (Nos.) and its connectivity given to CPCB and CECB portal.</p> <p>Six monthly compliances submitted to MoEFCC, Raipur office regularly. Manual ambient air quality monitoring as per CPCB is being done in the core and buffer zone. Monitoring data is submitted quarterly to CECB and six monthly to MoEF&CC RO office, Raipur.</p> <p>Manual AAQM& Noise monitoring reports enclosed as Annexure II (Page No 1-12). The 3rd party monitoring is undertaken through QCI-NABET MoEF&CC approved laboratory.</p>
iii.	<p>The company shall install adequate dust collection and extraction systems to control fugitive dust emissions at various transfer points. Glass bag house in raw mill and kiln, ESP in cooler and cement mill and bag filter at all the transfer points shall be installed. Coal and clinker storage will be in the form of stockpiles. The dust collected from the pollution control equipment shall be recycled back into the process. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.</p>	<p>Complied</p> <p>Dust collection and extraction system are installed at various transfer points to control fugitive dust.</p> <p>Glass bag house in raw mill and kiln, ESP in cooler & cement mills are installed. Bag filters at all the transfer points are installed. Coal and clinker storage are in the form of stockpile under covered shed. The dust collected from the pollution control equipment is recycled into the process. Storage of raw material is in closed roof sheds. We are in the process to install three new shed for CPP and Lime stone stock pile for line 1 & 2. The Purchase order copy is attached as Annexure XII</p> <p>Regular water sprinkling at (No. of locations 6) is being done in the raw material stock yard and loading area. Mobile water sprinkling system has been deployed to control the fugitive dust emissions. Fugitive dust monitoring undertaken through QCI-NABET MoEF&CC approved laboratory is enclosed as Annexure-II (Page No 14)</p>

iv.	All the recommendations of the Corporate Responsibility for Environmental Protection (CREP) shall be followed and existing ESP in cement mill I and II and bag filters in raw mill and kiln, and crusher area shall be modified to achieve 99.95% efficiency and particulate emission levels less than 50 mg/Nm ³ .	<p>Complied.</p> <p>CREP guidelines are being followed. Cement Plant and Captive Power Plant are well equipped with dust extraction system (Bag filters, Glass Bag House & ESP) of adequate capacity to achieve particulate matter emission as per the new Notification dated 10th May, 2016. Air pollution control systems are upgraded to achieve 99.95 % efficiency and particulate emissions are maintained below 50 mg/Nm³.</p> <p>CEMS data of Cement Plant Line-I&II can be seen on URL- http://rtdms.cpcb.gov.in/industry-login and CEMS data of CPP can be seen on URL - http://rtdms.cpcb.gov.in/industry-login</p> <p>Photographs of control equipment's are shown in Annexure I.</p> <p>Cement and CPP manual stacks Monitoring results for the period of October 2020 to March 2021 are given in Annexure-II (Page No 13,15-24)</p>
v.	No effluent shall be discharged from the process outside the premises and all the treated effluent from CPP and STP shall be utilized for green belt development and other plant related activities.	<p>Complied.</p> <p>In cement plant there is no question of process effluents as the cement manufacturing process adopted is a dry. Cooling tower COC is maintained 8-9 cycles, and discharged TDS is around 900-1100 mg/lit and this water is used for dust suppression. We have adapted Zero liquid Discharge is maintained all the time, No process effluent are discharged outside the plant premises. No effluent is generated from cement plant. Treated effluent from CPP and treated Waste water from STP is further used for other plant activities, including dust suppression & green belt development within the plant area.</p>
vi.	The company must harvest the rainwater from the roof tops and storm water drains to recharge the ground water. The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for the various activities of the project to conserve fresh water.	<p>Complied.</p> <p>Rain water harvesting system (2 Nos.) has been constructed in colony and in nearby villages. Roof tops rain water and storm water drains are used to recharge the ground water. Rain water that gets collected in the mined out pit is used for various activities after proper settling and treatment. Collected rain water is used for process and fresh water is conserved. As per CGWB regional map our area is covered in safe zone. Also we are in the process to install further Roof top Building Rain water recharge Structure (Nos. 5) in the plant and colony will be completed Before October 2022.</p>
vii.	Green belt shall be developed in 33% of the plant area. Central Pollution Control Board guidelines must be followed in planning and developing green belt and selection of species etc.	<p>Complied.</p> <p>We have developed more than 33% green belt is developed within the plant premises. Total plant area as per EC 238.97 Green belt area 83.00.... Hec, no of existing plants 201484.... Photographs of Plantation & Certificate shown in Annexure III.</p>
viii.	Solid waste generated in the form of fly ash and slag shall be 100% recycled in the process itself.	<p>Complied.</p> <p>Fly ash generated from CPP is 100% utilized in cement manufacturing (PPC and Composite cement) as per BIS standard. Whereas flyash and blast furnace slag (bought from outside) from other industries are also being used for making cement. Thus solid waste generated within the plant is utilized 100 %.</p>

ix.	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied. Ambuja Cement Foundation (ACF) is taking care of implementation of all CSR activities regularly as per rules. These activities are regularly undertaken in consultation with community and local administration and implemented within study area. CSR funds are utilized for Community welfare activities Ref. Annexure IV for details of activities and budget.
B. General Conditions		
i.	The project authority must adhere to the stipulations made by Chhattisgarh Environment Conservation Board (CECB) and State Government.	During operation phase the project authorities are complying all the conditions of EC and CTO issued by CECB i.e. Chhattisgarh Environment Conservation Board (CECB) and State Government. Hence Complied.
ii.	No further expansion or modification of the plant should be carried out without prior approval of this ministry.	Prior EC will be obtained in case of change/enhancement in production capacity.
iii.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the CECB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhopal and CECB /CPCB once in six months.	Complied In order to monitor SPM, SO ₂ , NO _x four (4) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in consultation with CECB and the monitored data is automatically transmitted regularly on the portal CECB as well as CPCB URL- http://www.envsaindia.com/cpcb/industry.php . Six monthly reports are filed to RO MOEF office, Raipur as desired. Manual ambient air quality monitoring as per CPCB is being done in the core and buffer zone through MoEFCC approved, NABL accredited lab as a part of compliance of EC and CTO. Annexure 1(Page 1-10)
iv.	Industrial waste water should 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 should be utilized for plantation purpose.	Complied. Industrial waste water is properly collected, treated as per the CTO discharge standards. The treated waste water is used for the purpose of dust suppression within the plant area and also recycled in TPP process. Latest Monitoring results of water quality enclosed as Annexure II (Page 55,58) .
v.	The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA(day time) and 70 dBA (night time).	Complied. Noise control measures including acoustic hoods, silencers, enclosures etc. are provided at various noise generating sources within Power and cement plant. The ambient noise levels are maintained below 85 dBA in the plant area, and ambient levels are maintained 75 dBA (day time) and 70 dBA (night time). Noise monitoring carried out in core and buffer zone, report is enclosed as Annexure II (Page 11-12)

vi.	Proper housekeeping and adequate occupational health programmes must be taken up. Occupational Health Surveillance programme should be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.	Complied. Regular housekeeping is being carried out regularly. Occupational health and safety awareness program and mock drills are conducted regularly in order to sensitize workers. Pre-employment and periodic medical check-up of each employee is being performed, which includes lung function test and sputum analysis tests once in six months. Records are maintained at Occupational Health Centre (OHC) which is serviced by permanent doctors and health staff. EC six monthly returns are filed covering above data.
vii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment/Environmental Management Plan.	Noted and Agreed. Environmental protection measures suggested in the EIA/EMP report are duly implemented in the plant on regularly basis.
viii.	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive.	Complied Environmental Management Cell has been established under supervision of Environmental Head with laboratory facilities. Environmental monitoring is being carried out through MoEF&CC & NABL accredited laboratories. Head of Environment is directly reporting to the Unit Head. The hierarchy chart and function of EMD is mentioned in the attached Annexure – IX
ix.	The project authorities will provide adequate funds both recurring and non-recurring 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 provided should not be diverted for any other purposes.	Agreed and being complied. State of the art environmental protection measures have been implemented in the plant facilities. Necessary funds are allocated for implementation and maintenance of the environmental protection measures to control pollution within permissible limits. Details of fund utilized in different heads are depicted in Annexure-V
x.	The Regional Office of this Ministry at Bhopal / CPCB / CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Complied. As per EC and CTO as a part of compliance point wise compliances are filed regularly as per the frequency mentioned. Environment monitoring data is interpreted by MoEF&CC/NABET accredited experts and included in returns. Regular six monthly compliance report and monitoring data is submitted to MoEF&CC, CECB & CPCB. Last EC compliance report was submitted by mail Copy is enclosed Annexure-VI .
xi.	The Project Authorities should 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.	Noted and Complied. These issues are covered in subsequent six monthly reports.

xii.	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CECB / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should 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.	Complied. Advertisement for obtaining EC for change in capacity is filed in subsequent six monthly returns.
3.	The Ministry or any competent, authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located at Bhopal.	Noted
4.	The Ministry may revoke or suspend the clearance if implementation of any of the above mentioned conditions is not satisfactory.	Noted
5.	Any other conditions or alteration in the above conditions will have to be implemented by the project authorities in a time bound manner.	Noted
6.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted

Compliance of the conditions stipulated in the environmental clearance given by ministry of environment and forests for 2.72 MTPA new clinker production unit (2.72MTPA) along with thermal power plant (15 mw) and captive power plant (33 mw).Ref. No. J-11011/355/2005-ia ii (i), date: 02th September April 2007.

Sr. No.	EC Conditions	Compliance Status
A. Specific Conditions		
i.	The gaseous and particulate matter emission from various units shall conform to the standards prescribed by the Chhattisgarh Environment Conservation Board (CECB). At no time, the particulate emission from the cement plant shall exceed 50 mg/Nm ³ . The emission from CPP shall be less than 100 mg/Nm ³ . Continuous online stack monitoring facilities for all the stacks and adequate air pollution control system shall be provided to keep emission levels below 50 mg/Nm ³ and on-line data shall be submitted to the CECB and CPCB regularly. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	<p>Complied.</p> <p>Cement Plant and Captive Power Plant are equipped with pollution control equipment (i.e. Bag filters, Glass Bag House & ESP) of adequate capacity to achieve Particulate Matter emission as per the new Notification dated 10th May, 2016. Our APC are having adequate capacity and the particulate emissions from the cement plant and captive power plant (CPP) are maintained below 50 mg/Nm³ and 100 mg/Nm³ respectively. Interlocking facilities are also installed, in case of failure of APCE the respective unit gets automatically shut off.</p> <p>CEMS (PM, SO₂ & NO_x) has been installed in cement plant and Power Plant and connectivity provided to CPCB portal, New Delhi and CECB Atal Nagar, Naya Raipur. Interlocking system is provided in pollution control equipments. CEMS data of Cement Plant Line-I&II can be seen on URL- http://rtdms.cpcb.gov.in/industry-login and CEMS data of CPP can be seen on URL -http://rtdms.cpcb.gov.in/industry-login</p> <p>Photographs of Pollution control equipments are shown in Annexure I.</p> <p>Cement plant stacks monitoring report enclosed as Annexure II (Page No 13,15-24)</p>

ii.	Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with CECB and report submitted to CECB quarterly and to the Ministry's Regional Office at Bhopal half-yearly. One ambient air quality monitoring station shall be installed in downwind direction.	<p>Complied</p> <p>Four (4) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in consultation with CECB and result can be seen on URL-http://www.envsaindia.com/cpcb/industry.php.</p> <p>CEMS (PM, SO₂ & NO_x) has been installed in cement plant and Power Plant and connectivity provided to CPCB portal, New Delhi and CECB Atal Nagar, Naya Raipur.</p> <p>CEMS has been installed in all the stacks (5 Nos.) and its connectivity given to CPCB and CECB portal.</p> <p>Six monthly compliances submitted to MoEFCC, Raipur office regularly. Manual ambient air quality monitoring as per CPCB is being done in the core and buffer zone. Monitoring data is submitted quarterly to CECB and six monthly to MoEF&CC RO office, Raipur.</p> <p>Manual AAQM & Noise monitoring reports enclosed as Annexure 1 (Page No 1-10) The 3rd party monitoring is undertaken through QCI-NABET MoEF&CC approved laboratory.</p>
iii.	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 etc. ESP to AFBC boilers, clinker cooler and glass bag house to the raw mill/kiln system shall be provided to control air emission less than 50 mg/Nm ³ from all the sources except CPP where 100 mg/Nm ³ norms shall be achieved. Bag filters shall be provided to crushing plant, raw mill hopper, blending silo/kiln feed clinker storage, coal mill system, transfer points and vesting of auxiliaries. The dust collected from the pollution control equipment's shall be recycled back in to the process. Storage of raw material shall be in closed roof shed.	<p>Complied</p> <p>Dust collection and extraction system are installed at various transfer points to control fugitive dust.</p> <p>Glass bag house in raw mill and kiln, ESP in cooler & cement mills are installed. Bag filters at all the transfer points are installed. Coal and clinker storage are in the form of stockpile under covered shed. The dust collected from the pollution control equipment is recycled into the process.</p> <p>Storage of raw material is in closed roof sheds.</p> <p>Regular water sprinkling at (No. of locations 6) is being done in the raw material stock yard and loading area. Mobile water sprinkling system is recently ordered to strengthen the existing dust suppressions systems. Expected delivery and operations Sept'2021. Fugitive dust monitoring undertaken through QCI-NABET MoEF&CC approved laboratory is enclosed as Annexure-II (Page No 14)</p>
iv.	Asphalting/concreting of roads and water spray all around the coal stockpiles shall be carried out to control fugitive emissions.	<p>Complied</p> <p>For controlling fugitive emission all roads are concreted inside the plant premises and Regular water sprinkling at (No. of locations 6) is being done around the raw material storage facilities. Also, ample greenery development has been undertaken.</p>
v.	Secondary fugitive emissions should be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	<p>Complied</p> <p>Cement Plant and Captive Power Plant are well equipped with dust extraction system. Fugitive dust monitoring undertaken through QCI-NABET MoEF&CC approved laboratory is enclosed as Annexure-II (Page No 14)</p>

vi.	Total water requirement shall be met from the mine pits only and no surface/ground water shall be used. No process wastewater shall be discharged due to use of all the treated wastewater for ash conditioning, dust suppression, green belt development and other plant related activities etc. No effluent shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic effluent shall be used after treated in Sewage Treatment Plant (STP) for green belt development within the plant and colony area.	Complied. In cement plant there is no question of process effluents as the cement manufacturing process adopted is a dry. Cooling tower COC is maintained 8-9 cycles, and discharged TDS is around 900-1100 mg/lit and this water is used for dust suppression. We have adapted Zero liquid Discharge is maintained all the time, No process effluent are discharged outside the plant premises. No effluent is generated from cement plant. Treated effluent from CPP and treated Waste water from STP is further used for other plant activities, including dust suppression & green belt development within the plant area.
vii.	The entire water requirement shall be met from the artificial reservoir made in mine pit only and no water from surface and ground water sources shall be used for any purpose.	Complied. The entire water requirement (6044 KLD) is being met from artificial reservoir made in mine pit. Also we are in process to install two water treatment plant capacity 500 KLD in plant and 600 KLD in colony for only depends upon the Mine water for domestic purpose .
viii.	The company must harvest the rainwater from the roof tops and storm water drains to recharge the ground water. The company must also collect rain water in the mined out pits and use the same water for the various activities of the project to conserve fresh water.	Complied. Rain water harvesting system (2 Nos. ref. photograph Annexure No.) has been constructed in colony and in nearby villages. Roof tops rain water and storm water drains are used to recharge the ground water. Rain water that gets collected in the mined out pit is used for various activities after proper settling and treatment. Collected rain water is used for process and fresh water is conserved. As per CGWB regional map our area is covered in safe zone. Also we are in the process to install further Roof top Building Rain water recharge Structure (Nos. 5) in the plant and colony will be completed Before October 2022.
ix.	As proposed in EIA/EMP, out of total 238.97 ha. Green belt shall be developed in 75 ha. (30%) in consultation with the local DFO as per the CPCB guidelines.	Complied. We have developed more than 33% green belt is developed within the plant premises. Total plant area as per EC ... 238.97. Green belt area 83.00. Hec, no of existing plants 201484.... Photographs of Plantation & Application for green belt certification to Local DFO Submitted as shown in Annexure III.
x.	All the cement dust collected from pollution control devices shall be recycled and reutilized in the process. The entire fly ash generated from the power plant shall be pneumatically conveyed to the cement plant and used for manufacturing of Pozollana Portland Cement (PPC) Boiler ash shall be used for land filling Sludge from the sewage treatment plant shall be used as manure Hazardous waste viz. Spent oil from gear boxes and automatic batteries etc. shall be properly stored in a designated area and sold to authorized recyclers / re-processors.	Complied. All the dust collected from pollution control equipment's is reused in processes. Fly ash generated from the CPP power plant is handled pneumatically and 100% utilized in cement manufacturing (PPC and Composite cement) as per BIS standard. Sludge generated from the sewage treatment plant (STP) is used as manure for greenbelt development. Hazardous waste (Used Oil, Waste Oil etc.) and batteries are properly stored in confined area and sold to authorize recycler only.

xi.	Efforts shall be made to make use of high calorific hazardous waste as fuel in kiln. Accordingly, provision shall be made in the kiln and inform to the Ministry.	Complied. High calorific hazardous waste is used as alternative fuel in kiln.
xii.	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied. Ambuja Cement Foundation (ACF) is taking care of implementation of all CSR activities regularly as per rules. These activities are regularly undertaken in consultation with community and local administration and implemented within study area. CSR funds are utilized for Community welfare activities Ref. Annexure IV for details of activities and budget.
xiii.	All the recommendations of the CREP guidelines shall be strictly followed.	Noted and Complied.
B. General Conditions		
i.	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	During operation phase the project authorities are complying all the conditions of EC and CTO issued by CECB i.e. Chhattisgarh Environment Conservation Board (CECB) and State Government. Hence Complied.
ii.	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Noted Prior EC will be obtained in case of change/enhancement in production capacity.
iii.	At least four ambient air quality-monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the CECB Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six months.	Complied In order to monitor SPM, SO ₂ , NO _x four (4) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in consultation with CECB and the monitored data is automatically transmitted regularly on the portal CECB as well as CPCB URL- http://www.envsaindia.com/cpcb/industry.php . Six monthly reports are filed to RO MOEF office, Raipur as desired. Manual ambient air quality monitoring as per CPCB is being done in the core and buffer zone thru MoEF&CC approved, NABL accredited lab as a part of compliance of EC and CTO. The test records are attached as Annexure II(Page 1-10)
iv.	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.	Complied. Industrial waste water is properly collected, treated as per the CTO discharge standards. The treated waste water is used for the purpose of dust suppression within the plant area and also recycled in TPP process. Latest Monitoring results of water quality enclosed as Annexure II(Page 55,58).

v.	The overall noise level in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods silencers enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules. 1989 viz., 75 dBA(daytime) and 70 dBA (nighttime).	Complied. Noise control measures including acoustic hoods, silencers, enclosures etc. are provided at various noise generating sources within Power and cement plant. The ambient noise levels are maintained below 85 dBA in the plant area, and ambient levels are maintained 75 dBA(day time) and 70 dBA (night time). Noise monitoring carried out in core and buffer zone, report is enclosed as Annexure II (Page 11-12)
vi.	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 programmes, educational programmes, drinking water supply and health care etc.	Noted and Agreed. Environmental protection measures suggested in the EIA/EMP report are duly implemented in the plant on regularly basis. Various socio-economic development programs are being implemented in surrounding community through Ambuja Cement Foundation (ACF) as per rule. These activities are regularly undertaken in consultation with community and local administration and implemented within study area. CSR funds are utilized for Community welfare activities Ref. Annexure IV for details of activities and budget.
vii.	The project authorities shall provide Rs. 40.00 Crores and Rs. 5.00 Crores/annum towards capital and recurring cost/annum for environmental protection measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bhopal. The funds so provided shall not be diverted for any other purpose.	Agreed and being complied. State of the art environmental protection measures have been implemented in the plant facilities. Annual funds are allocated for implementation and maintenance of the environmental protection measures to control pollution within permissible limits. Details of fund utilized in different heads are depicted in Annexure-V
viii.	The Regional Office of this ministry at Bhopal / CPCB / CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Complied. As per EC and CTO as a part of compliance point wise compliances are filed regularly as per the frequency mentioned. Environment monitoring data is interpreted by MoEFCC/NABET accredited experts and included in returns. Regular six monthly compliance report and monitoring data is submitted to MoEFCC, CECB & CPCB. Last EC compliance report was submitted by mail Copy is enclosed Annexure-VI .

ix.	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 CECB/Committee 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 day 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 Bhopal.	Complied. Advertisement for obtaining EC for change in capacity is filed in subsequent six monthly returns. Copy of information to the public is enclosed as Annexure-VII.
x.	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.	Noted and Complied. These details are covered in subsequent six monthly reports. <ul style="list-style-type: none"> • Environmental Clearance date:13.04.2007 • Financial closures is on 31st December, 2007
3.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
4.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Noted
5.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974. the Air (Prevention & Control of Pollution) Act,1981, the Environment (Protection) Act, 1986. Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (insurance) Liability Act, 1991 along with their amendments and rules.	Noted

Compliance of the conditions stipulated in the environmental clearance given by ministry of environment and forests for the expansion project from 1.8 MTPA to 2.4 MTPA cement production, Ref. No. J-11011/539/2008-IA II (I),
Date: 23rd December 2008

Sr. No.	EC Conditions	Compliance Status as on 10 May 2022
A. Specific Conditions		
i.	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion, limit of SPM shall be controlled within 50mg/Nm ³ by installing adequate air pollution control system viz. glass bag house to kiln mill, bag filters to coal mill etc. As proposed, existing electrostatic precipitators (ESPs) provided to kiln/ shall be replaced by glass bag house. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB regularly. Efforts shall also be made to reduce SO ₂ and NO _x emissions. Stack emission monitoring reports shall be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB regularly.	<p>Complied</p> <p>Cement Plant and Captive Power Plant are equipped with pollution control equipment (i.e. Bag filters, Glass Bag House & ESP) of adequate capacity to achieve Particulate Matter emission as per the new Notification dated 10th May, 2016. Regular lime injection at boiler to reduce SO₂ emissions as per the new Notification dated 10th May, 2016 at Captive TPP.</p> <p>ESP is installed at AFBC boiler whereas Glass Bag House is installed at Raw Mill & Kiln exit to control air emission below 50 mg/Nm³ at CPP.</p> <p>Our APC are having adequate capacity and the particulate emissions from the cement plant and captive power plant (CPP) are maintained below 50 mg/Nm³. Interlocking facilities are also installed, in case of failure of APC the respective unit gets automatically shut off.</p> <p>CEMS (for PM, SO₂&NO_x) have been installed in cement plant and Power Plant and connectivity provided to CPCB portal, New Delhi and CECB Atal Nagar, Naya Raipur. Interlocking system is provided in pollution control equipments. CEMS data of Cement Plant Line-I&II can be seen on URL- http://rtdms.cpcb.gov.in/industry-login and Id- environment.bhatapara-ind@ambujacement.com CEMS data of CPP can be seen on URL -http://rtdms.cpcb.gov.in/industry-login Id- environment.tppbhatapara-ind@ambujacement.com (Photographs of control equipment's are shown in Annexure I. Latest Cement and CPP manual stacks Monitoring results for the given in Annexure II (Page No 13,15-24)</p>
ii.	Secondary fugitive emissions shall be controlled and should be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	<p>Complied</p> <p>Cement Plant and Captive Power Plant are well equipped with dust extraction system. Fugitive dust monitoring undertaken through QCI-NABET MoEF&CC approved laboratory is enclosed as Annexure-II (Page No 14).</p>
iii.	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 shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored.	<p>Complied.</p> <p>Raw material and end products transport is being carried out in tarpaulin covered trucks. Fly ash is transported in closed bulkers. Transport roads are regularly sprinkled with water and are periodically maintained. Overloading is strictly prohibited. Air quality monitoring is carried out in nearby villages to ensure efficacy of air pollution control measures adopted in the plant. Photographs of material transport shown in Annexure - VIII</p>

iv.	<p>The company shall install adequate dust collection and extraction system to control fugitive dust emissions from different sources viz. raw material storage yards, loading and unloading operations, transfer points, crusher, coal mill and packing plant. Bag filters and water sprinkling arrangements shall be made in raw material stock yards and cement bag loading areas etc. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided. Cement and fly ash shall be stored in silos. Dust suppression system shall be provided at transfer points and coal/lignite handling area to control fugitive emissions. Automatic dust cleaning system for removing dust from floors, concrete/tar topped roads inside the plant to avoid dispersion of dust and good housekeeping shall be adopted to control fugitive emissions.</p>	<p>Complied</p> <p>The company has installed adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill, material handling areas (i.e. unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc.</p> <p>ESP is installed at AFBC boiler whereas Glass Bag House is installed at Raw Mill & Kiln exit to control air emission below 50 mg/nm³ at CPP and 30 mg/Nm³ at Cement plant.</p> <p>Bag filters are provided to crushing plant, raw mill hopper, blending silo/kiln feed, clinker storage, coal mill system and transfer points. The dust collected from the pollution control equipments is recycled back in to the process. Raw material storage areas are provided with closed roof shed.</p> <p>Regular water sprinkling at (No. of locations 6) is being done in the raw material stock yard and loading area. Mobile water sprinkling system is recently ordered to strengthen the existing dust suppressions systems. Expected delivery and operations Sept'2021. Photographs of control equipment's are shown in Annexure I, and Fugitive dust monitoring undertaken through QCI-NABET MoEF&CC approved laboratory is enclosed as Annexure-II (Page No 14).</p>
v.	<p>Asphalting/concreting of roads and water spray ail 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 SPM and RPM 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 norms prescribed by the Central Pollution Control Board in this regard.</p>	<p>Complied.</p> <p>For controlling fugitive emission the roads are black topped/concreted inside the plant premises and Regular water sprinkling at (No. of locations 6) is being done in the raw material stock yard and loading area. Mobile water sprinkling system is recently ordered to strengthen the existing dust suppressions systems. Expected delivery and operations Sept'2021. Fugitive dust monitoring undertaken through QCI-NABET MoEF&CC approved laboratory is enclosed as Annexure-II (Page No 14)</p> <p>Fugitive dust monitoring data conform to the prescribed norms is enclosed as Annexure-II (Page No 14).</p>

vi.	<p>Ambient air quality including ambient noise levels shall be monitored at different locations including fence of the sanctuary and must not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality, fugitive and stack emissions shall be carried out regularly in consultation with CECB and reports submitted to the to the Ministry's Regional Office at Bhopal, CECB and CPCB regularly.</p>	<p>Complied</p> <p>Four (4) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in consultation with CECB and result can be seen on URL-http://www.envsaindia.com/cpcb/industry.php. CEMS (PM, SO₂ & NO_x) has been installed in cement plant and Power Plant and connectivity provided to CPCB portal, New Delhi and CECB Atal Nagar, Naya Raipur.</p> <p>CEMS has been installed in all the stacks (Nos. 5) and its connectivity given to CPCB and CECB portal.</p> <p>Six monthly compliances submitted to MoEFCC, Raipur office regularly. Manual ambient air quality monitoring as per CPCB is being done, in the core and buffer zone. Monitoring data is submitted quarterly to CECB and six monthly to MoEFCC RO office, Raipur.</p> <p>Manual AAQM & Noise monitoring reports enclosed as Annexure II (Page No 1-10) The 3rd party monitoring is undertaken through QCI-NABET MoEF&CC approved laboratory.</p>
vii.	<p>As proposed, total water requirement for cement plant (50m³/day) shall be met from mine pit only and no surface or ground water shall be used. No liquid effluent shall be generated from the cement plant. All the other treated wastewater shall be recycled and reused in the process for cooling and/or for ash quenching, dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. All the sewage water shall be treated in Sewage Water Reclamation Plant (SWRP) and treated wastewater shall be used for green belt development.</p>	<p>Complied</p> <p>Water requirement of the plant is being met from mines pit water.</p> <p>In cement plant there is no question of process effluents as the cement manufacturing process adopted is a dry. Cooling tower COC is maintained 8-9 cycles, and discharged TDS is around 900-1100 mg/lit and this water is used for dust suppression. We have adapted Zero liquid Discharge is maintained all the time, No process effluent are discharged outside the plant premises. No effluent is generated from cement plant. Treated effluent from CPP and treated Waste water from two STPs (25KL each) is further used for other plant activities, including dust suppression & green belt development within the plant area.</p>
viii.	<p>Sewage Water Reclamation Plant (SWRP) shall be used for the treatment of sewage from the colony and treated domestic effluent shall be used for green belt development within the plant premises. Domestic waste from colony and SWRP shall be segregated into biodegradable and non-biodegradable. Biodegradable waste shall be composted and non-biodegradable waste should be land filled at identified sites. Effluent treatment plant (ETP) shall also be provided for workshop.</p>	<p>Complied</p> <p>No effluent is discharged from the process outside the premises. Treated effluent from Sewage Water Reclamation Plant (SWRP) / STP is used for green belt development. Treated effluent from CPP is used in process and dust suppression and recycled in the CPP process through RO.</p> <p>Biodegradable domestic waste from the colony is used for composting and green belt development.</p>

ix.	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / re-processors only. All the solid waste generated from colony and Sewage Water Reclamation Plant (SWRP) shall be disposed after segregating the waste into biodegradable and non-degradable. Treated SWRP sludge shall be used as manure for green belt development. The waste oil and scrapped automobile batteries etc. shall be properly disposed off as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments and shall be sold to authorized recyclers / re-processors only.	<p>Complied All the dust collected from pollution control equipment's is reused in processes. Fly ash generated from the CPP power plant is handled pneumatically and 100% utilized in cement manufacturing (PPC and Composite cement) as per BIS standard.</p> <p>All the solid waste generated from colony and STP are disposed after segregating the waste into biodegradable and non-degradable. Treated STP sludge & biodegradable domestic is used as manure/composting for green belt development.</p> <p>Hazardous waste (Used Oil, Waste Oil etc.) and batteries are properly stored in confined area and sold to authorize recycler only.</p>
x.	An effort shall be made to use high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.	<p>Complied. High calorific hazardous waste is being pre-processed and co-processed in kiln. CECB Atal Nagar, Naya Raipur has granted the permission for utilization of HW. Authorization vide letter No. 6718/HSMD/HO/CECB/2019 Raipur, Date 06/11/2019 as enclosed in Annexure – X</p>
xi.	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	<p>Being complied. Low grade limestone, Fly ash and other solid wastes are being used as alternative raw material for cement manufacturing.</p>
xii.	All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in making Pozzolana Portland Cement (PPC).	<p>Complied. Fly ash generated from CPP is 100% utilized in cement manufacturing (PPC and Composite cement) as per BIS standard. Whereas fly ash and blast furnace slag (bought from outside) from other industries are also being used for making cement. Thus solid waste generated within the plant is utilized 100 %.</p>
xiii.	As proposed, 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.	<p>Complied. We have developed more than 33% green belt is developed within the plant premises. Total plant area as per EC 238.97.... Green belt area 83.00. Hec, no of existing plants 201484. Photographs of Plantation & application submitted to local DFO for green belt certification is attached as Annexure III.</p>
xiv.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement Plants shall be implemented.	<p>Complied. CREP guidelines are being followed. Cement Plant and Captive Power Plant are well equipped with dust extraction system (Bag filters, Glass Bag House & ESP) of adequate capacity to achieve particulate matter emission as per the new Notification dated 10th May, 2016.</p>
xv.	The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile \ STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<p>Noted & Complied.</p>

B. General Conditions		
i.	The project authority must adhere to the stipulations made by Chhattisgarh Environment Conservation Board (CECB) and State Government.	During operation phase the project authorities are complying all the conditions of EC and CTO issued by CECB i.e. Chhattisgarh Environment Conservation Board (CECB) and State Government. Hence Complied.
ii.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Noted. Prior EC will be obtained in case of change/enhancement in production capacity.
iii.	The gaseous (SO ₂ , NO _x , CO) and particulate matter emissions from various units shall conform to the standards prescribed by the Chhattisgarh Environment Conservation Board. Inter-locking facility shall be provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	Complied Cement Plant and Captive Power Plant are equipped with pollution control equipments (i.e. Bag filters, Glass Bag House & ESP) of adequate capacity to achieve Particulate Matter emission as per the new Notification dated 10 th May, 2016. Regular lime injection at boiler to reduce SO ₂ emissions and Low NO _x burner has been installed to reduce NO _x emission as per the new Notification dated 10 th May, 2016. CEMS (for PM, SO ₂ & NO _x) has been installed in cement plant and Power Plant and connectivity provided to CPCB, New Delhi and CECB Atal Nagar. Interlocking system is provided in pollution control equipments. CEMS data of Cement Plant Line-I&II can be seen on URL- http://rtdms.cpcb.gov.in/industry-login and Id- environment.bhatapara-ind@ambujacement.com CEMS data of CPP can be seen on URL - http://rtdms.cpcb.gov.in/industry-login Id- environment.bhatapara-ind@ambujacement.com (Photographs of control equipment's are shown in Annexure I . Cement and CPP manual stacks monitoring results for the period of October 2020 to March 2021 are given in Annexure II (Page 13,15-24) .
iv.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Complied. Industrial waste water is properly collected, treated as per the CTO discharge standards. The treated waste water is used for the purpose of dust suppression within the plant area and also recycled in TPP process. Latest Monitoring results of water quality enclosed as Annexure II(Page 55,58) .
v.	The company shall harvest surface as well as rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Complied. Rain water harvesting system has been constructed in colony and in nearby villages. Roof tops rain water and storm water drains are used to recharge the ground water. Rain water that gets collected in the mined out pit is used for various activities after proper settling and treatment. Collected rain water is used for process and fresh water is conserved. As per CGWB regional map our area is covered in safe zone. However we are in process to install new Nos. 5 Roof Top Rain of the building water recharge structure in the plant and colony and same will be completed by October 2022.

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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). Compliance to all the standards for DG sets for noise shall be ensured and acoustic enclosures around DG sets shall be provided.	Complied. Noise control measures including acoustic hoods, silencers, enclosures etc. are provided at various noise generating sources within Power and cement plant. The ambient noise levels are maintained below 85 dBA in the plant area, and ambient levels are maintained 75 dBA (day time) and 70 dBA (night time). Noise monitoring carried out in core and buffer zone, report is enclosed as Annexure II (Page 11-12)
vii.	Proper housekeeping and adequate occupational health programmes must be taken up. All the persons working in the sensitive areas shall wear protective covers. Occupational Health Surveillance programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.	Complied. Regular housekeeping is being carried out regularly. Occupational health and safety awareness program and mock drills are conducted regularly in order to sensitize workers. Pre-employment and periodic medical check-up of each employee is being performed, which includes lung function test and sputum analysis tests once in six months. Records are maintained at Occupational Health Centre (OHC) which is serviced by permanent doctors and health staff. EC six monthly returns are filed covering above data.
viii.	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied. Ambuja Cement Foundation (ACF) is taking care of implementation of all CSR activities regularly as per rules. These activities are regularly undertaken in consultation with community and local administration and implemented within study area. CSR funds are utilized for Community welfare activities Ref. Annexure IV for details of activities and budget.
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Rapid and Comprehensive EIA/EMP.	Complied. Environmental protection measures recommended in the EIA/EMP report are duly implemented in the plant on regularly basis.
x.	A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of the Senior Executive.	Complied Environmental Management Cell has been established under supervision of Environmental Head with laboratory facilities. Environmental monitoring is being carried out through MoEF&CC & NABL accredited laboratories. Head of Environment is directly reporting to the Unit Head. The copy of Environment Cell formulated and their functions is attached as Annexure-IX
xi.	As proposed, Rs. 2.02 Crores and Rs. 0.20 Crores shall be earmarked towards capital cost and recurring cost/annum for environmental pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. A time bound action plan along with the implementation schedule for all the conditions stipulated herein shall be submitted to the Ministry, CECB and CPCB. The funds so provided shall not be diverted for any other purposes.	Complied. Agreed and being complied. State of the art environmental protection measures have been implemented in the plant facilities. Annual funds are allocated for implementation and maintenance of the environmental protection measures to control pollution within permissible limits. Details of fund utilized in different heads are depicted in Annexure-V

xii.	The Regional Office of this Ministry at Bhopal/CPCB/CECB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Complied. As per EC and CTO as a part of compliance point wise compliances are filed regularly as per the frequency mentioned. Environment monitoring data is interpreted by MoEF&CC /NABET accredited experts and included in returns. Regular six monthly compliance report and monitoring data is submitted to MoEF&CC, CECB & CPCB. Last EC compliance report was submitted by mail Copy is enclosed Annexure-VI
xiii.	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 commencing the land development work.	Noted and Complied. These issues are covered in subsequent six monthly reports. Environmental clearance granted on 23 rd December 2008. Annual Financial Closure is on 31 st December.
xiv.	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CECB 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 shall be forwarded to the Regional office.	Complied. Advertisement for obtaining EC for change in capacity is filed in subsequent six monthly returns. The advertisement of grant of environmental clearance was published in local widely circulated newspapers. Copy of information to the public is enclosed As Annexure-VII.
7.	The Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bhopal.	Noted
8.	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted
9.	Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.	Noted
10.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Noted
11.	The above conditions will be enforced, inter-alia under the provisions of the Water(Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 Along with their amendments and rules.	Noted

Compliance of the conditions stipulated in the environmental clearance given by ministry of environment and forests for the expansion project from 2.4 MTPA TO 3.5 MTPA, Ref.no. J-11011/72/2009-IA II (I), Date: 10th September May 2009.

Sr. No.	EC Conditions	Compliance Status
A. Specific Conditions.		
i.	The company shall comply with the stipulation made in the environmental clearance granted to the existing plant by the Ministry of Environment and Forests vide letter No. J-11011/539/2008 dated 23rd December, 2008.	<p>Noted and complied.</p> <p>During operation phase the project authorities are complying all the conditions of EC and CTO issued by CECB i.e. Chhattisgarh Environment Conservation Board (CECB) and State Government.</p>
ii.	The particulate matter emissions from various sources shall not exceed 50 mg/Nm ³ . Bag house/ filters shall be provided to control air emissions to achieve the prescribed standards. The fugitive emissions during loading and unloading shall be suitably controlled.	<p>Complied</p> <p>Cement Plant and Captive Power Plant are equipped with pollution control equipment's (i.e. Bag filters, Glass Bag House & ESP) of adequate capacity to achieve Particulate Matter emission as per the new Notification dated 10th May, 2016. Regular lime injection at boiler to reduce SO₂ emissions and Low NO_x burner has been installed to reduce NO_x emission as per the new Notification dated 10th May, 2016 at Captive Power Plant.</p> <p>Our APC are having adequate capacity and the particulate emissions from the cement plant and captive power plant (CPP) are maintained below 50 mg/Nm³. Interlocking facilities are also installed, in case of failure of APC the respective unit gets automatically shut off.</p> <p>CEMS (for PM, SO₂ & NO_x) has been installed in cement plant and Power Plant and connectivity provided to CPCB, New Delhi and CECB Atal Nagar. Interlocking system is provided in pollution control equipment's. CEMS data of Cement Plant Line-I&II can be seen on URL- http://rtdms.cpcb.gov.in/industry-login and Id- environment.bhatapara-ind@ambujacement.com</p> <p>CEMS data of CPP can be seen on URL -http://rtdms.cpcb.gov.in/industry-login Id- environment.tppbhatapara-ind@ambujacement.com</p> <p>(Photographs of control equipment's are shown in Annexure I.</p> <p>Regular water sprinkling at (No. of locations 6) is being done in loading and unloading area.</p> <p>Stack emission monitoring and Fugitive dust emission monitoring undertaken through QCI-NABET MoEF&CC approved laboratory is enclosed as Annexure-II (Page No 14)</p>

iii.	The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with Chhattisgarh Environment Conservation Board (CECB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	<p>Complied</p> <p>Four (4) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in consultation with CECB and result can be seen on URL-http://www.envsaindia.com/cpcb/industry.php.</p> <p>Regular manual ambient air quality monitoring as per CPCB is being done in the core and buffer zone (at ten locations). Manual AAQM results by undertaken through QCI-NABET MoEF&CC approved laboratory are enclosed as Annexure II (Page 1-10)</p>
iv.	Data on ambient air quality stack emission and fugitive emissions shall be uploaded on the company's website and also regularly submitted online to the Ministry's Regional Office at Bhopal, Chhattisgarh Environment Conservation Board and Central Pollution Control Board as well as hard copy once in six months. Data on SPM, SO ₂ and NO _x shall also be displayed prominently outside the premises at the appropriate place for the general public.	<p>Complied.</p> <p>Data on ambient air quality, stack emission is regularly submitted to MOEFCC, CECB & CPCB. Same is uploaded on the company's website. Website link. http://www.ambujacement.com/sustainable-development/environment/</p> <p>CEMS has been installed in all the stacks (Nos.) and its connectivity given to CPCB and CECB portal.</p> <p>Six monthly compliances submitted to MoEFCC, Raipur office regularly</p> <p>Data on SPM, SO₂ and NO_x is also displayed at the main gate of the plant premises.</p>
v.	The Company shall submit a water conservation and management plan to meet the requirement of 150 m ³ /day from the existing water sources and no ground water shall be drawn for the plant. The copy of the water conservation and management plan shall be submitted to the Ministry and its Regional Office at Bhopal within three months from date of issue of this letter.	<p>Complied</p> <p>Rainwater accumulated in Rawan Mines pit is being used for plant operation. The total water requirement for plant operation is 6044..KLD. Rainwater harvesting measures are implemented in the plant & colony. Treated effluent from STP in the colony is used for dust suppression and plantation in mines and plant area. The rain water is collected in the plant area and further stored in Badarapali Pond to Recharge and utilization</p>
vi.	Green belt shall be developed at least in 33% of plant area to mitigate the effect of fugitive emissions all around the plant as per the guidelines of Central Pollution Control Board.	<p>Complied.</p> <p>We have developed more than 33% green belt is developed within the plant premises. Total plant area as per EC 238.97.... Green belt area 83.00.... Hec, no of existing plants 201484.... Photographs of Plantation & Certificate shown in Annexure III.</p>
vii.	The project authorities shall transport the raw materials and cement in covered means to avoid fugitive emission during transport.	<p>Complied.</p> <p>Raw material and cement are transported in fully covered/closed manner. Fly ash is transported in closed bulkers. Transport roads are regularly sprinkled with water and are periodically maintained.</p> <p>A photograph of material transport is enclosed as Annexure VIII</p>
viii.	The clinker requirement shall be met from the existing unit and no additional clinker manufacturing facility shall be installed by the company for this grinding unit.	<p>Noted and Agreed.</p>

ix.	All the recommendations mentioned in the CREP guidelines for the cement plants shall be followed and compiled.	Complied. CREP guidelines are being followed. Cement Plant and Captive Power Plant are well equipped with dust extraction system (Bag filters, Glass Bag House & ESP) of adequate capacity to achieve particulate matter emission as per the new Notification dated 10 th May, 2016.
x.	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted and Compiled.
B. General Conditions		
i.	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.	Noted and compiled. During operation phase the project authorities are complying all the conditions of EC and CTO issued by CECB i.e. Chhattisgarh Environment Conservation Board (CECB) and State Government.
ii.	All other necessary statutory clearances from the concern Departments including 'No Objection Certificate' from the State Pollution Control Board shall be obtained prior to commencement of construction and/or operation.	Complied.
iii.	No further expansion or modification of 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 add additional environmental protection measures required, if any.	Noted and agreed. Prior EC will be obtained in case of change/enhancement in production capacity.
iv.	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Noted and being compiled. Our APC are having adequate capacity and the particulate emissions from the cement plant and captive power plant (CPP) are maintained below 50 mg/Nm ³ . Interlocking facilities are also installed, in case of failure of APC the respective unit gets automatically shut off.

v.	<p>The gaseous emissions (SO₂, NO_x) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time.</p>	<p>Compiled.</p> <p>CEMS (PM, SO₂& NO_x) has been installed in cement plant and Power Plant and connectivity provided to CPCB, New Delhi and CECB Atal Nagar, Naya Raipur. Interlocking facilities are also installed, in case of failure of APC the respective unit gets automatically shut off.</p> <p>Regular lime injection at boiler to reduce SO₂ emissions and Low NO_x burner has been installed to reduce NO_x emission as per the new Notification dated 10th May, 2016.</p> <p>CEMS data of Cement Plant Line-I&II can be seen on URL- http://rtdms.cpcb.gov.in/industry-login and Id- environment.bhatapara-ind@ambujacement.com</p> <p>CEMS data of CPP can be seen on URL -http://rtdms.cpcb.gov.in/industry-login Id- environment.tppbhatapara-ind@ambujacement.com</p> <p>(Photographs of control equipment's are shown in Annexure I.</p> <p>Cement and CPP manual stacks Monitoring results for the period of October 2020 to March 2021 are given in Annexure II (Page 13, 15 -24).</p>
vi.	<p>The company shall undertake following Waste Minimization measures.</p> <ul style="list-style-type: none"> • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Use of "Closed pneumatic" system for transport of fine material. • All venting systems shall be connected with dust arresting equipment. • Dust collected in pollution control equipment shall be reused. 	<p>Compiled.</p> <p>Fly ash generated from captive power plant is fully utilized for making PPC grade cement.</p> <p>Fly ash generated from the power plant is handled by a closed pneumatic system.</p> <p>All venting and transfer points are connected with bag filters for arresting the dust.</p> <p>Dust collected in pollution control equipment is reused in the process.</p>
vii.	<p>Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.</p>	<p>Compiled.</p> <p>Regular water sprinkling at (No. of locations) is being done in the raw material storage area and loading and unloading area. Mobile water sprinkling system is recently ordered to strengthen the existing dust suppressions systems. Expected delivery and operations Sept'2021. Fugitive dust monitoring undertaken through QCI-NABET MoEF&CC approved laboratory is enclosed as Annexure-II (Page No 14)</p>
viii	<p>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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p>	<p>Compiled.</p> <p>Noise control measures including acoustic hoods, silencers, enclosures etc. are provided at various noise generating sources within Power and cement plant. The ambient noise levels are maintained below 85 dBA in the plant area, and ambient levels are maintained 75 dBA(day time) and 70 dBA (night time). Noise monitoring carried out in core and buffer zone, report is enclosed as Annexure II (Page 11-12)</p>

ix.	The company shall develop rain water harvesting structures to harvest the run-off water for recharge of ground water.	Complied. Rain water is being harvested in mined out pits. The water requirement of plant and Mines is fulfilled by the harvested water stored in mined out pits. Roof tops rain water and storm water drains are used to recharge the ground water. Collected rain water is used for process and fresh water is conserved. As per CGWB regional map our area is covered in safe zone. Also we are in the process to install further Roof top Building Rain water recharge Structure (Nos. 5) in the plant and colony will be completed Before October 2022.
x.	Occupational health and safety measures shall be undertaken. Periodic monitoring for exposure to dust on the workers should be conducted and records maintained including health records of the workers. The company shall engage a doctor who is trained in occupational health.	Complied. Occupational health and safety awareness program and mock drills are conducted regularly in order to sensitize workers. Pre-employment and periodic medical check-up of each employee is being performed, which includes lung function test and sputum analysis test. Records are maintained at Occupational Health Centre (OHC) which is serviced by permanent doctors and health staff. EC six monthly returns are filed covering above data. The Company has engaged doctors and health staff having in depth knowledge of occupational health.
xi.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Complied. Ambuja Cement Foundation (ACF) is taking care of implementation of all CSR activities regularly as per rules. These activities are regularly undertaken in consultation with community and local administration and implemented within study area. CSR funds are utilized for Community welfare activities Ref. Annexure IV for details of activities and budget.
xii.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied The Environmental Management Cell has been established under supervision of the Environmental Head with laboratory facilities. Environmental monitoring is being carried out through MOEFCC & NABL accredited laboratories. The Head of Environment is directly reporting to the Unit Head.
xiii.	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for all the conditions stipulated herein shall be submitted to the Ministry's Regional Office. The funds so provided shall not be diverted for any other purpose.	Agreed and being complied. State of the art environmental protection measures have been implemented in the plant facilities. Necessary funds are allocated for implementation and maintenance of the environmental protection measures to control pollution within permissible limits. Details of fund utilized in different heads are depicted in Annexure-V.
xiv.	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Complied. Six monthly compliance reports are regularly submitted to MoEF&CC, CPCB & CECB and are uploaded on the website of the company.

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 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 shall be forwarded to the concerned Regional office of the Ministry.	Compiled. Advertisement for obtaining EC for change in capacity is filed in subsequent six monthly returns.
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.	Compiled. These issues are covered in subsequent six monthly reports. <ul style="list-style-type: none"> ● Environmental Clearance date:15.05.2009 ● Financial Closure is on 31st December 2021
6.	The ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted.
7.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.	Noted.
8.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	Noted.
9.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986, Hazardous waste (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.

COMPLIANCE OF THE CONDITIONS STIPULATED IN THE ENVIRONMENTAL CLEARANCE (AMENDED) GIVEN BY MINISTRY OF ENVIRONMENT AND FORESTS FOR THE INTERMEDIATE CEMENT CAPACITY EXPANSION FROM 1.8 MTPA TO 2.9 MTPA, Ref. No. J-11011/72/2009-IA-II (I), Dated: 02nd September May, 2011.

This has reference to letter no. ACL: BH: ENV: 25: 2010/7216 dated 6.12.2010 seeking permission for expansion of intermediate capacity of cement production from 1.8 MTPA to 2.9 MTPA by installing 1.1 MTPA cement grinding mill. It is noted that intermediate cement capacity expansion for Stage I would be from 1.8 MTPA to 2.9 MTPA by installing a ball mill and then cement capacity expansion for Stage II would be from 2.9 MTPA to 3.5 MTPA by installing a VRPM.

Sr. No.	EC Conditions	Compliance Status
	Additional conditions	
i.	The Stage I and Stage II cement expansion should be within the maximum capacity for which environmental clearance has been obtained i.e. 3.5 MTPA.	Complied The Stage I and Stage II cement expansion is within the maximum capacity of 3.5 MTPA for which environmental clearance has been obtained.
ii.	There shall not be any change in process technology or any other process parameters, or air pollution control system.	Noted and Agreed There is no change in process technology, or any other process parameters, or air pollution control system.
iii.	Continuous on-line monitors for the particulate emissions shall be installed. Interlocking facilities shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	Compiled. CEMS (PM, SO ₂ & NO _x) has been installed in cement plant and Power Plant and connectivity provided to CPCB portal, New Delhi and CECB Atal Nagar, Naya Raipur. CEMS has been installed in all the stacks (... Nos.) and its connectivity given to CPCB and CECB portal. Interlocking facilities are also installed, in case of failure of APC the respective unit gets automatically shut off. CEMS data of Cement Plant Line-I&II can be seen on URL- http://rtdms.cpcb.gov.in/industry-login and Id- environment.bhatapara-ind@ambujacement.com CEMS data of CPP can be seen on URL - http://rtdms.cpcb.gov.in/industry-login Id- environment.tppbhatapara-ind@ambujacement.com (Photographs of control equipment's are shown in Annexure I . Manual stack emission monitoring results for the period of October 2020 to March 2021 are given in Annexure II (Page 13, 15-24).
iv.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/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 up on the website of the company by the proponent.	Compiled. Copy of information to the public is enclosed as Annexure- VII . EC Letter can be seen on company website: www.ambjacement.com

v.	The environment statement for each financial year ending 31st 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 clearance conditions and shall also be sent to the respective regional Office of the MoEF&CC by email	Complied Environmental statement is submitted annually to CECB. Compliance of environment clearance conditions is regularly submitted to MoEF&CC regional office on six monthly basis, the same is also uploaded on the company's website. Copy of Environment statement submitted to MoEF&CC is enclosed as Annexure-XI .
5.	In case of change in the scope of the project, the company shall obtain fresh environmental clearance.	Noted.

Compliance of the conditions stipulated in the Environmental Clearance (amended) given by ministry of Environment and Forests for expansion in clinker production capacity (4.42 to 4.8 mtpa) by process optimization of m/s Ambuja Cements Ltd. (unit bhatapara), (existing capacity: 2.72 mtpa clinker production (line-ii) and existing total plant area: 238.97 ha) located at village rawan, tehsil & district balodabazar-bhatapara , chhattisgarh-application under clause 7(II) OF EIA Notification,2006-regarding, Ref.NO. J-11011/355/2005-IA-II (I), Dated: 202th SeptemberJan'2016

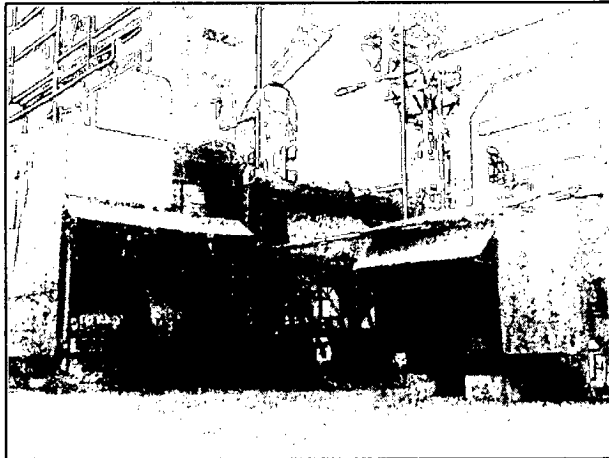
This has reference to letter no. ACL/Bhatapara/Line-II/01 dated 13.08.2015 regarding amendment in Environment Clearance under clause 7(ii) of EIA notification 2006, for the project mentioned above.

The project was earlier accorded Environment Clearance by the Ministry vide letter No. J-11011/355/2005-IA-II (I) dated 02th September April, 2007, for Clinker production capacity of 4.42 MTPA (Line I-1.70 MTPA and Line-II 2.72 MTPA) cement production capacity of 3.5 MTPA;CPP of 63 MW (2 * 15 MW & 1* 33 MW) capacity & DG set having 14 MW. The proponent intends to optimize the clinker production capacity of existing Line-II (i.e. 2.72 MTPA) by process optimization.

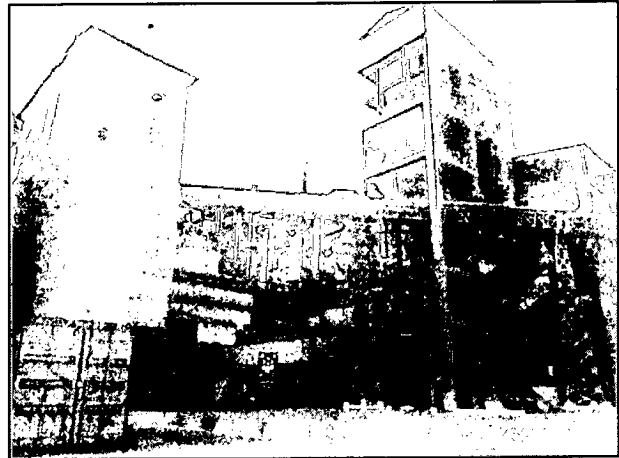
Sr. No.	EC Conditions	Compliance Status as on 10 th May 2022
	Additional conditions	
3.	There is no additional land requirement for the proposed expansion project, as the same will be done within the existing plant premises by optimization. No additional manpower requirement is envisaged. No additional capital cost is required for proposed expansion. The proponent has mentioned that the existing Air Pollution Control Equipments (APCEs) have adequate potential for proposed marginal expansion capacity.	Compiled. No additional land was required during expansion. Expansion was done within the plant with process optimization. No additional capital cost was incurred. There is no change in process technology, or any other process parameters, or air pollution control system.
4	The proposal was considered by the expert Appraisal Committee (Industry) during its meetings held on 02th September-14 th November'2015 (27 th Meeting) and 3 rd -4 th September, 2015 (47 th Meeting) and recommended the project for Environment Clearance subject to stipulation of following additional specific conditions: (i) The Project proponent should install 24 * 7 air devices to monitor air emission, as provided by CPCB and submit reports to the Ministry and its Regional Office. (ii) The expansion project shall comply with the new MOEFCC standards vide GSR 612(E) dated 25.08.2014 with respect to particulate matter, SO ₂ , NO _x for Cement Sector.	Complied Four (4 Nos.) real-time CAAQMS has been installed with consultation of CECB and result can be seen on URL- http://www.envsaindia.com/cpcb/industry.php# . Regular ambient air quality monitoring at six locations is being done. CEMS (PM, SO ₂ & NO _x) has been installed in cement plant and Power Plant and connectivity provided to CPCB portal, New Delhi and CECB Atal Nagar, Naya Raipur. CEMS has been installed in all the stacks (Nos.) and its connectivity given to CPCB and CECB portal Continuous manual Stack Emission, Ambient Air Quality Monitoring (AAQM), Noise monitoring, water quality and soil quality reports enclosed as Annexure II (Page No 1-10) The 3 rd party monitoring is undertaken through QCI-NABET MoEF&CC approved laboratory.

5.	The Ministry had considered the recommendations of Expert appraisal Committee (Industry) and hereby decided to accord Environment Clearance for Expansion in clinker production capacity from 4.42 MTPA to 4.8 MTPA by Process Optimization in line-2 of the existing clinker capacity from 2.72 MTPA to 3.1 MTPA of M/S Ambuja Cement Ltd. Under clause 7(ii) of EIA Notification, 2006 subject to strict compliance of the following additional specific conditions:	Noted and being compiled.
A: SPECIFIC CONDITION :		
(i)	The project proponent should install 24 * 7 air devices to monitor air emission, as provided by CPCB and submit report to Ministry and its Regional office	Complied Four (4 Nos.) Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in consultation with CECB and result can be seen on URL- http://www.envsaindia.com/cpcb/industry.php . CEMS has been installed in all the stacks (Nos.) and its connectivity given to CPCB and CECB portal. Monitoring data is submitted six monthly to MoEF&CC RO office, Raipur.
(ii)	The expansion project shall comply with the new MOEFCC standards vide GSR 612(E) dated 25.08.2014 with respect to particulate matter, SO ₂ , NO _x for Cement Sector.	Noted and being compiled.
6.	The project proponent shall comply with all the environmental safeguards stipulated in the environmental clearance letter of even No. dated 02th September April, 2007	Noted and compiled. Environmental protection measures suggested in the EIA/EMP report are duly implemented in the plant on regularly basis. Compliance report of the same is annexed herewith.
7.	The company shall obtain fresh Environment Clearance in case of any change in the scope of the project.	Noted
8.	This issues with the approval of Competent Authority.	Noted

Annex 1
Annexure-I



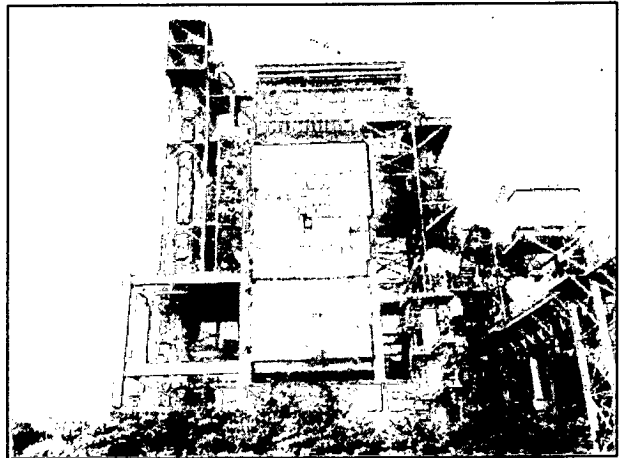
ESP at Old TTP 15 MW



Bag House at Klin Stack



Bag House at Klin Stack



ESP at Cooler

- ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified
- Recognized By Ministry of Environment & Forests (MoEF), New Delhi
- Approved by : Food Safety & Standards Authority of India under FSS Act;
- Bureau of Indian Standards (BIS); Agricultural & Processed Food Products Export Development Authority (APEDA);
- Export Inspection Council (EIC); AGMARK.

TEST REPORT

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Ambient Air Quality Monitoring Report- April-2022

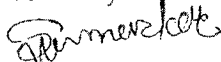
Report No.: AI.PI./28042022/1-1			Date: 28/04/2022	
Name and Address of Industry:-	Ambuja Cements Limited (Unit: Bhatapara) P O Rawan, Tehsil Baloda Bazar, Dist Baloda Bazar-Bhatapara -493 331		W. O. No.	2800844711/1/NE08
			W. O. date:	24/05/2021
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/05042022/ENV-5-9/AAQMS-1 and ALPL/05042022/ENV-5-10/AAQMS-2	
Sample Drawn By:-	Anacon Representative	Sample Inward Date:	11,18,27 April-2022	
Test Started On:-	11,18,27 April-2022	Test Completed On:-	11,18,27 April-2022	

Sr. No.	LOCATION	Date of sampling	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
Method Reference			IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
AAQMS-1	Nr. Railway Yard Check Point Latitude: 21.676208 Longitude: 82.081766	01/04/2022	64.9	26.3	12.8	23.6	0.252
		04/04/2022	68.1	28.7	13.4	21.7	0.249
		07/04/2022	58.3	16.8	9.3	18.4	0.176
		11/04/2022	62.9	21.4	11.6	22.9	0.217
		14/04/2022	64.7	23.6	12.4	24.1	0.239
		18/04/2022	68.3	26.1	9.7	18.3	0.216
		22/04/2022	57.1	16.9	8.4	16.2	0.178
		25/04/2022	62.7	21.4	9.3	17.6	0.194
Monthly Average Value			63.4	22.7	10.9	20.4	0.215
Norms			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8 hrs)
AAQMS-2	Rawan Mine Office Latitude: 21.672245 Longitude: 82.094275	01/04/2022	56.3	17.2	9.1	18.2	0.201
		04/04/2022	63.8	21.6	11.4	21.9	0.216
		07/04/2022	58.1	16.4	8.2	17.3	0.192
		11/04/2022	54.7	18.3	7.6	16.4	0.176
		14/04/2022	61.3	21.6	8.7	19.2	0.204
		18/04/2022	57.1	19.2	7.4	16.7	0.192
		22/04/2022	54.8	18.3	6.7	16.4	0.181
		25/04/2022	61.3	21.8	9.3	17.6	0.204
Monthly Average Value			58.4	19.3	8.6	18.0	0.196
Norms			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8 hrs)

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Test report shall not be reproduced except in full without prior written approval of Anacon Labs.

Remark: - All Results are within Limit as per CPCB Standards.

Verified by



Shubhangi Armarkar
(Technical Manager)

Authorized Signatory



Dr. (Mrs.) S.D. Garway
(Quality Manager)

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

Laboratory address : FP-34, 35, Food Park, 5 Star Industrial Estate, MIDC Butibori, Nagpur - 441 122.

Email : support@anacon.in;

Please Visit us at : www.anaconlaboratories.com

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- Recognized By Ministry of Environment & Forests (MoEF), New Delhi
- Approved by : Food Safety & Standards Authority of India under FSS Act;
- Bureau of Indian Standards (BIS): Agricultural & Processed Food Products Export Development Authority (APEDA);
- Export inspection council (EIC): AGMARK.

TEST REPORT

Page 1 of 1

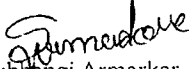
Ambient Air Quality Monitoring Report- April-2022

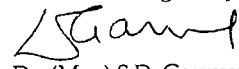
Report No.: ALPL/28042022/1-2			Date: 28/04/2022	
Name and Address of Industry:-	Ambuja Cements Limited (Unit: Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar Bhatapara 493 331.		W. O. No.	2800844711/1/NF08
			W. O. date:	24/05/2021
Sample Description/ Type	Ambient Air Quality (Core Zone)	Sample Ref. No.:-	ALPL/05042022/ENV-5-11/AAQMS-3	
Sample Drawn By:-	Anacon Representative	Sample Inward Date:-	11,18,28 April-2022	
Test Started On:-	11,18,28 April-2022	Test Completed On:-	11,18,28 April-2022	

Sr. No.	LOCATION	Date of sampling	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO _x µg/m ³	CO mg/m ³
Method Reference			IS 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)
AAQMS-3	Nr. Maldi Mine Office Latitude: 21.655814 Longitude: 82.065233	05/04/2022	64.9	24.7	13.6	21.3	0.249
		08/04/2022	68.1	26.3	11.9	23.8	0.251
		12/04/2022	59.3	18.1	9.2	18.7	0.204
		15/04/2022	62.8	23.7	11.4	21.9	0.216
		19/04/2022	57.2	19.3	9.7	19.3	0.182
		21/04/2022	61.7	21.6	11.3	21.1	0.204
		23/04/2022	59.3	18.7	8.4	18.6	0.193
		26/04/2022	62.1	19.4	9.2	19.7	0.201
Monthly Average Value			61.9	21.5	10.6	20.6	0.213
Norms			100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8 hrs)

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Test report shall not be reproduced except in full without prior written approval of Anacon Labs.

Remark: - All Results are within Limit as per CPCB Standards.

Verified by

Shubhangi Armarkar
(Technical Manager)

Authorized Signatory

Dr. (Mrs.) S.D. Garway
(Quality Manager)

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

Laboratory address : FP-34, 35, Food Park, 5 Star Industrial Estate, MIDC Butibori, Nagpur - 441 122.

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- Bureau of Indian Standards (BIS); Agricultural & Processed Food Products Export Development Authority (APEDA);
- Export inspection council (EIC); AGMARK.

TEST REPORT

Page 1 of 1

Ambient Air Quality Analysis Report-April-2022

Report Code: ALPL/28042022/1-3

Issue Date: 28/04/2022

Issued To : Ambuja Cements Limited
(Unit:Bhatapara)
P.O. Rawan, Tehsil Baloda Bazar,
Dist - Baloda Bazar-Bhatapara -493 331.

Inward No. : ALPL/05042022/ENV-5-1
Sample Description : Ambient Air
Sample Drawn On : 20/04/2022 to 21/04/2022
Sample Drawn By : Anacon Representative
Sample Received On : 25/04/2022
Sampling Location : Village-Karmandih (AAQ-1)
Sampling Procedure : ANtd/7.2/Mon-01
Analysis Duration : 25/04/2022 to 26/04/2022
Sampling Time : 24 Hrs.
Ambient Temperature : 32°C
Average Flow Rate of SPM : 1.3 (m³/min)
Average Flow Rate of Gases : 0.4 (lpm)
Weather Conditions : Clear

Sl. No.	PARAMETER	TEST METHOD	RESULT	UNIT	CPCB Standards
1	Particulate Matter (PM ₁₀)	IS:5182 (Part 23)	52.9	µg / m³	100 (24 hrs)
2	Particulate Matter (PM _{2.5})	USEPA-40 (Part 50)	17.6	µg / m³	60 (24 hrs)
3	Sulphur dioxide (as SO ₂)	IS:5182 (Part 2)	9.2	µg / m³	80 (24 hrs)
4	Nitrogen dioxide (as NO ₂)	IS:5182 (Part 6)	18.4	µg / m³	80 (24 hrs)
5	Carbon Monoxide (as CO)	IS:5182 (Part 10)	0.176	mg / m³	2.0 (8 hrs)
6	Lead (as Pb)	IS:5182 (Part 22)	BDL (DL-0.01)	µg / m³	1.0 (24 hrs)
7	Nickel (as Ni)	SOP ANqd/Mon-4	BDL (DL-0.1)	ng / m³	20.0 (annual)
8	Arsenic (as As)	SOP ANqd/Mon-3	BDL (DL-0.1)	ng / m³	6.0 (annual)
9	Ozone (as O ₃)	IS:5182 (Part 9)	6.8	µg / m³	100 (8 hrs)
10	Ammonia (as NH ₃)	Indophenol Method	9.3	µg / m³	400 (24 hrs)
11	Benzene (as C ₆ H ₆)	IS:5182 Part 11-GC	BDL (DL-0.01)	µg / m³	5.0 (annual)
12	Benzo-Pyrene (as BaP)	IS:5182 Part 12-GC	BDL (DL-0.01)	ng / m³	1.0 (annual)

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Verified by

Shubhangi Armarkar
(Technical Manager)

Authorized Signatory

Dr. (Mrs.) S.D. Garway
(Quality Manager)

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

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Ambient Air Quality Analysis Report-April-2022

Report Code: ALPL/28042022/1 4

Issue Date: 28/04/2022

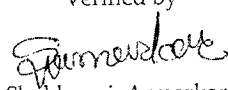
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P.O. Rawan, Tehsil Baloda Bazar,
Dist - Baloda Bazar-Bhatapara 493 331.

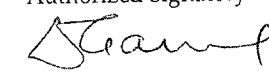
Inward No. : ALPL/05042022/ENV-5-2
Sample Description : Ambient Air
Sample Drawn On : 20/04/2022 to 21/04/2022
Sample Drawn By : Anacon Representative
Sample Received On : 25/04/2022
Sampling Location : Village-Mopar (AAQ-2)
Sampling Procedure : ANtd/7.2/Mon-01
Analysis Duration : 25/04/2022 to 26/04/2022
Sampling Time : 24 Hrs.
Ambient Temperature : 32°C
Average Flow Rate of SPM : 1.2 (m³/min)
Average Flow Rate of Gases : 0.4 (lpm)
Weather Conditions : Clear

Sl. No.	PARAMETER	TEST METHOD	RESULT	UNIT	CPCB Standards
1	Particulate Matter (PM ₁₀)	IS:5182 (Part 23)	48.3	µg / m ³	100 (24 hrs)
2	Particulate Matter (PM _{2.5})	USEPA 40 (Part 50)	16.1	µg / m ³	60 (24 hrs)
3	Sulphur dioxide (as SO ₂)	IS:5182 (Part 2)	8.4	µg / m ³	80 (24 hrs)
4	Nitrogen dioxide (as NO ₂)	IS:5182 (Part 6)	17.3	µg / m ³	80 (24 hrs)
5	Carbon Monoxide (as CO)	IS:5182 (Part 10)	0.167	mg / m ³	2.0 (8 hrs)
6	Lead (as Pb)	IS:5182 (Part 22)	BDL (DL-0.01)	µg / m ³	1.0 (24 hrs)
7	Nickel (as Ni)	SOP ANqd/Mon-4	BDL (DL-0.1)	ng / m ³	20.0 (annual)
8	Arsenic (as As)	SOP ANqd/Mon-3	BDL (DL-0.1)	ng / m ³	6.0 (annual)
9	Ozone (as O ₃)	IS:5182 (Part 9)	6.2	µg / m ³	100 (8 hrs)
10	Ammonia (as NH ₃)	Indophenol Method	8.7	µg / m ³	400 (24 hrs)
11	Benzene (as C ₆ H ₆)	IS:5182 Part 11-GC	BDL (DL-0.01)	µg / m ³	5.0 (annual)
12	Benzo-Pyrene (as BaP)	IS:5182 Part 12-GC	BDL (DL-0.01)	ng / m ³	1.0 (annual)

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Remark: - All Results are within Limit as per CPCB Standards.

Verified by

Shubhangi Armarkar
(Technical Manager)

Authorized Signatory

Dr. (Mrs.) S.D. Garway
(Quality Manager)

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

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Ambient Air Quality Analysis Report-April-2022

Report Code: ALPL/28042022/1-5

Issue Date: 28/04/2022

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P.O. Rawan, Tehsil Baloda Bazar,
Dist - Baloda Bazar-Bhatapara 493 331.

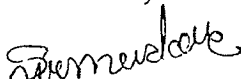
Inward No. : ALPL/05042022/ENV-5-3
Sample Description : Ambient Air
Sample Drawn On : 21/04/2022 to 22/04/2022
Sample Drawn By : Anacon Representative
Sample Received On : 25/04/2022
Sampling Location : Village-Kukurdih (AAQ-3)
Sampling Procedure : ANtd/7.2/Mon-01
Analysis Duration : 25/04/2022 to 26/04/2022
Sampling Time : 24 Hrs.
Ambient Temperature : 34°C
Average Flow Rate of SPM : 1.1 (m³/min)
Average Flow Rate of Gases : 0.4 (lpm)
Weather Conditions : Clear

Sl. No.	PARAMETER	TEST METHOD	RESULT	UNIT	CPCB Standards
1	Particulate Matter (PM ₁₀)	IS:5182 (Part 23)	56.3	µg / m ³	100 (24 hrs)
2	Particulate Matter (PM _{2.5})	USEPA-40 (Part 50)	21.6	µg / m ³	60 (24 hrs)
3	Sulphur dioxide (as SO ₂)	IS:5182 (Part 2)	9.1	µg / m ³	80 (24 hrs)
4	Nitrogen dioxide (as NO ₂)	IS:5182 (Part 6)	18.7	µg / m ³	80 (24 hrs)
5	Carbon Monoxide (as CO)	IS:5182 (Part 10)	0.204	mg / m ³	2.0 (8 hrs)
6	Lead (as Pb)	IS:5182 (Part 22)	BDL (DL-0.01)	µg / m ³	1.0 (24 hrs)
7	Nickel (as Ni)	SOP ANqd/Mon-4	BDL (DL-0.1)	ng / m ³	20.0 (annual)
8	Arsenic (as As)	SOP ANqd/Mon-3	BDL (DL-0.1)	ng / m ³	6.0 (annual)
9	Ozone (as O ₃)	IS:5182 (Part 9)	7.3	µg / m ³	100 (8 hrs)
10	Ammonia (as NH ₃)	Indophenol Method	9.1	µg / m ³	400 (24 hrs)
11	Benzene (as C ₆ H ₆)	IS:5182 Part 11-GC	BDL (DL-0.01)	µg / m ³	5.0 (annual)
12	Benzo-Pyrene (as BaP)	IS:5182 Part 12-GC	BDL (DL-0.01)	ng / m ³	1.0 (annual)


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Verified by


Shubhangi Armarkar
(Technical Manager)

Authorized Signatory


Dr. (Mrs.) S.D. Garway
(Quality Manager)

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

Laboratory address : FP-34, 35, Food Park, 5 Star Industrial Estate, MIDC Bulburi, Nagpur - 441 122.

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- Approved by : Food Safety & Standards Authority of India under FSS Act;
- Bureau of Indian Standards (BIS); Agricultural & Processed Food Products Export Development Authority (APEDA);
- Export inspection council (EIC); AGMARK.

Ambient Air Quality Analysis Report-April-2022

Report Code: ALPL/28042022/1-6

Issue Date: 28/04/2022

Issued To : Ambuja Cements Limited
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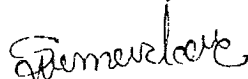
Inward No. : ALPL/05042022/ENV-5-4
Sample Description : Ambient Air
Sample Drawn On : 21/04/2022 to 22/04/2022
Sample Drawn By : Anacon Representative
Sample Received On : 25/04/2022
Sampling Location : Village-Bharsalli (AAO-4)
Sampling Procedure : ANtd/7.2/Mon-01
Analysis Duration : 25/04/2022 to 26/04/2022
Sampling Time : 24 Hrs.
Ambient Temperature : 34°C
Average Flow Rate of SPM : 1.2 (m³/min)
Average Flow Rate of Gases : 0.4 (lpm)
Weather Conditions : Clear

Sl. No.	PARAMETER	TEST METHOD	RESULT	UNIT	CPCB Standards
1	Particulate Matter (PM ₁₀)	IS:5182 (Part 23)	51.9	µg / m ³	100 (24 hrs)
2	Particulate Matter (PM _{2.5})	USEPA-40 (Part 50)	18.7	µg / m ³	60 (24 hrs)
3	Sulphur dioxide (as SO ₂)	IS:5182 (Part 2)	8.3	µg / m ³	80 (24 hrs)
4	Nitrogen dioxide (as NO ₂)	IS:5182 (Part 6)	16.4	µg / m ³	80 (24 hrs)
5	Carbon Monoxide (as CO)	IS:5182 (Part 10)	0.182	mg / m ³	2.0 (8 hrs)
6	Lead (as Pb)	IS:5182 (Part 22)	BDL (DL-0.01)	µg / m ³	1.0 (24 hrs)
7	Nickel (as Ni)	SOP ANqd/Mon-4	BDL (DL-0.1)	ng / m ³	20.0 (annual)
8	Arsenic (as As)	SOP ANqd/Mon-3	BDL (DL-0.1)	ng / m ³	6.0 (annual)
9	Ozone (as O ₃)	IS:5182 (Part 9)	6.1	µg / m ³	100 (8 hrs)
10	Ammonia (as NH ₃)	Indophenol Method	8.7	µg / m ³	400 (24 hrs)
11	Benzene (as C ₆ H ₆)	IS:5182 Part 11-GC	BDL (DL-0.01)	µg / m ³	5.0 (annual)
12	Benzo-Pyrene (as BaP)	IS:5182 Part 12-GC	BDL (DL-0.01)	ng / m ³	1.0 (annual)

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Verified by


Shubhangi Armarkar
(Technical Manager)

Authorized Signatory


Dr. (Mrs.) S.D. Garway
(Quality Manager)

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

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Ambient Air Quality Analysis Report-April-2022

Report Code: ALPL/28042022/1-7

Issue Date: 28/04/2022

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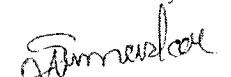
Inward No. : ALPL/05042022/ENV-5-5
Sample Description : Ambient Air
Sample Drawn On : 20/04/2022 to 21/04/2022
Sample Drawn By : Anacon Representative
Sample Received On : 25/04/2022
Sampling Location : Village-Pausari (AAQ-5)
Sampling Procedure : ANtd/7.2/Mon-01
Analysis Duration : 25/04/2022 to 26/04/2022
Sampling Time : 24 Hrs.
Ambient Temperature : 32°C
Average Flow Rate of SPM : 1.3 (m³/min)
Average Flow Rate of Gases : 0.4 (lpm)
Weather Conditions : Clear

Sl. No.	PARAMETER	TEST METHOD	RESULT	UNIT	CPCB Standards
1	Particulate Matter (PM ₁₀)	IS:5182 (Part 23)	54.7	µg /m ³	100 (24 hrs)
2	Particulate Matter (PM _{2.5})	USEPA-40 (Part 50)	21.9	µg /m ³	60 (24 hrs)
3	Sulphur dioxide (as SO ₂)	IS:5182 (Part 2)	11.3	µg /m ³	80 (24 hrs)
4	Nitrogen dioxide (as NO ₂)	IS:5182 (Part 6)	18.6	µg /m ³	80 (24 hrs)
5	Carbon Monoxide (as CO)	IS:5182 (Part 10)	0.193	mg /m ³	2.0 (8 hrs)
6	Lead (as Pb)	IS:5182 (Part 22)	BDL (DL-0.01)	µg /m ³	1.0 (24 hrs)
7	Nickel (as Ni)	SOP ANqd/Mon-4	BDL (DL-0.1)	ng /m ³	20.0 (annual)
8	Arsenic (as As)	SOP ANqd/Mon-3	BDL (DL-0.1)	ng /m ³	6.0 (annual)
9	Ozone (as O ₃)	IS:5182 (Part 9)	7.6	µg /m ³	100 (8 hrs)
10	Ammonia (as NH ₃)	Indophenol Method	9.1	µg /m ³	400 (24 hrs)
11	Benzene (as C ₆ H ₆)	IS:5182 Part 11-GC	BDL (DL-0.01)	µg /m ³	5.0 (annual)
12	Benzo-Pyrene (as BaP)	IS:5182 Part 12-GC	BDL (DL-0.01)	ng /m ³	1.0 (annual)


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Shubhangi Armarkar
(Technical Manager)

Authorized Signatory


Dr. (Mrs.) S.D. Garway
(Quality Manager)

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Ambient Air Quality Analysis Report-April-2022

Report Code: ALPL/28042022/1-8

Issue Date: 28/04/2022

Issued To : **Ambuja Cements Limited**
(Unit: Bhatapara)
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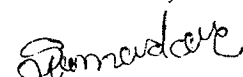
Inward No. : ALPL/05042022/ENV 5 6
Sample Description : Ambient Air
Sample Drawn On : 22/04/2022 to 23/04/2022
Sample Drawn By : Anacon Representative
Sample Received On : 25/04/2022
Sampling Location : **Village-Rawan (AAQ-6)**
Sampling Procedure : ANtd/7.2/Mon-01
Analysis Duration : 25/04/2022 to 26/04/2022
Sampling Time : 24 Hrs.
Ambient Temperature : 34°C
Average Flow Rate of SPM : 1.1 (m³/min)
Average Flow Rate of Gases : 0.4 (lpm)
Weather Conditions : Clear

Sl. No.	PARAMETER	TEST METHOD	RESULT	UNIT	CPCB Standards
1	Particulate Matter (PM ₁₀)	IS:5182 (Part 23)	58.6	µg / m ³	100 (24 hrs)
2	Particulate Matter (PM _{2.5})	USEPA-40 (Part 50)	24.1	µg / m ³	60 (24 hrs)
3	Sulphur dioxide (as SO ₂)	IS:5182 (Part 2)	13.6	µg / m ³	80 (24 hrs)
4	Nitrogen dioxide (as NO ₂)	IS:5182 (Part 6)	21.9	µg / m ³	80 (24 hrs)
5	Carbon Monoxide (as CO)	IS:5182 (Part 10)	0.218	mg / m ³	2.0 (8 hrs)
6	Lead (as Pb)	IS:5182 (Part 22)	BDL (DL-0.01)	µg / m ³	1.0 (24 hrs)
7	Nickel (as Ni)	SOP ANqd/Mon-4	BDL (DL-0.1)	ng / m ³	20.0 (annual)
8	Arsenic (as As)	SOP ANqd/Mon-3	BDL (DL-0.1)	ng / m ³	6.0 (annual)
9	Ozone (as O ₃)	IS:5182 (Part 9)	9.2	µg / m ³	100 (8 hrs)
10	Ammonia (as NH ₃)	Indophenol Method	11.7	µg / m ³	400 (24 hrs)
11	Benzene (as C ₆ H ₆)	IS:5182 Part 11-GC	BDL (DL-0.01)	µg / m ³	5.0 (annual)
12	Benzo-Pyrene (as BaP)	IS:5182 Part 12-GC	BDL (DL-0.01)	ng / m ³	1.0 (annual)

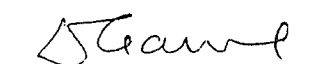
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Verified by


Shubhangi Armarkar
(Technical Manager)

Authorized Signatory


Dr. (Mrs.) S.D. Garway
(Quality Manager)

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

Laboratory address : FP-34, 35, Food Park, 5 Star Industrial Estate, MIDC Butibori, Nagpur - 441 122.

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Ambient Air Quality Analysis Report-April-2022

Report Code: ALPL/28042022/1-9

Issue Date: 28/04/2022

Issued To : Ambuja Cements Limited
(Unit:Bhatapara)
P.O. Rawan, Tehsil Baloda Bazar,
Dist - Baloda Bazar Bhatapara -493 331.

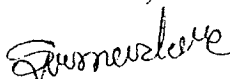
Inward No. : ALPL/05042022/ENV-5-7
Sample Description : Ambient Air
Sample Drawn On : 22/04/2022 to 23/04/2022
Sample Drawn By : Anacon Representative
Sample Received On : 25/04/2022
Sampling Location : **Village-Khairtaal (AAQ-7)**
Sampling Procedure : ANtd/7.2/Mon-01
Analysis Duration : 25/04/2022 to 26/04/2022
Sampling Time : 24 Hrs.
Ambient Temperature : 34°C
Average Flow Rate of SPM : 1.1 (m³/min)
Average Flow Rate of Gases : 0.4 (lpm)
Weather Conditions : Clear

Sl. No.	PARAMETER	TEST METHOD	RESULT	UNIT	CPCB Standards
1	Particulate Matter (PM ₁₀)	IS:5182 (Part 23)	49.7	µg /m ³	100 (24 hrs)
2	Particulate Matter (PM _{2.5})	USEPA-40 (Part 50)	16.8	µg /m ³	60 (24 hrs)
3	Sulphur dioxide (as SO ₂)	IS:5182 (Part 2)	9.1	µg /m ³	80 (24 hrs)
4	Nitrogen dioxide (as NO ₂)	IS:5182 (Part 6)	17.3	µg /m ³	80 (24 hrs)
5	Carbon Monoxide (as CO)	IS:5182 (Part 10)	0.182	mg /m ³	2.0 (8 hrs)
6	Lead (as Pb)	IS:5182 (Part 22)	BDL (DL-0.01)	µg /m ³	1.0 (24 hrs)
7	Nickel (as Ni)	SOP ANqd/Mon-4	BDL (DL-0.1)	ng / m ³	20.0 (annual)
8	Arsenic (as As)	SOP ANqd/Mon-3	BDL (DL-0.1)	ng / m ³	6.0 (annual)
9	Ozone (as O ₃)	IS:5182 (Part 9)	7.6	µg /m ³	100 (8 hrs)
10	Ammonia (as NH ₃)	Indophenol Method	9.3	µg /m ³	400 (24 hrs)
11	Benzene (as C ₆ H ₆)	IS:5182 Part 11-GC	BDL (DL-0.01)	µg /m ³	5.0 (annual)
12	Benzo-Pyrene (as BaP)	IS:5182 Part 12-GC	BDL (DL-0.01)	ng / m ³	1.0 (annual)

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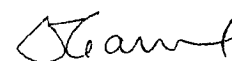
Remark: - All Results are within Limit as per CPCB Standards.

Verified by



Shubhangi Armarkar
(Technical Manager)

Authorized Signatory



Dr. (Mrs.) S.D. Garway
(Quality Manager)

Laboratory address : FP-34, 35, Food Park, 5 Star Industrial Estate, MIDC Butibori, Nagpur - 441 122.

Email : support@anacon.in;

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

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- Bureau of Indian Standards (BIS); Agricultural & Processed Food Products Export Development Authority (APEDA);
- Export inspection council (EIC); AGMARK.

Ambient Air Quality Analysis Report-April-2022

Report Code: ALPL/28042022/1-10

Issue Date: 28/04/2022

Issued To : **Ambuja Cements Limited**
(Unit:Bhatapara)
P.O. Rawan, Tehsil Baloda Bazar,
Dist - Baloda Bazar-Bhatapara 493 331.

Inward No. : ALPL/05042022/ENV-5-8
Sample Description : Ambient Air
Sample Drawn On : 23/04/2022 to 24/04/2022
Sample Drawn By : Anacon Representative
Sample Received On : 25/04/2022
Sampling Location : **Village-Maldi (AAQ-8)**
Sampling Procedure : ANtd/7.2/Mon-01
Analysis Duration : 25/04/2022 to 26/04/2022
Sampling Time : 24 Hrs.
Ambient Temperature : 34°C
Average Flow Rate of SPM : 1.2 (m³/min)
Average Flow Rate of Gases : 0.4 (lpm)
Weather Conditions : Clear

Sl. No.	PARAMETER	TEST METHOD	RESULT	UNIT	CPCB Standards
1	Particulate Matter (PM ₁₀)	IS:5182 (Part 23)	54.1	µg /m ³	100 (24 hrs)
2	Particulate Matter (PM _{2.5})	USEPA-40 (Part 50)	19.6	µg /m ³	60 (24 hrs)
3	Sulphur dioxide (as SO ₂)	IS:5182 (Part 2)	8.2	µg /m ³	80 (24 hrs)
4	Nitrogen dioxide (as NO ₂)	IS:5182 (Part 6)	16.8	µg /m ³	80 (24 hrs)
5	Carbon Monoxide (as CO)	IS:5182 (Part 10)	0.173	mg /m ³	2.0 (8 hrs)
6	Lead (as Pb)	IS:5182 (Part 22)	BDL (DL-0.01)	µg /m ³	1.0 (24 hrs)
7	Nickel (as Ni)	SOP ANqd/Mon-4	BDL (DL-0.1)	ng / m ³	20.0 (annual)
8	Arsenic (as As)	SOP ANqd/Mon-3	BDL (DL-0.1)	ng / m ³	6.0 (annual)
9	Ozone (as O ₃)	IS:5182 (Part 9)	6.1	µg /m ³	100 (8 hrs)
10	Ammonia (as NH ₃)	Indophenol Method	8.6	µg /m ³	400 (24 hrs)
11	Benzene (as C ₆ H ₆)	IS:5182 Part 11-GC	BDL (DL-0.01)	µg /m ³	5.0 (annual)
12	Benzo-Pyrene (as BaP)	IS:5182 Part 12-GC	BDL (DL-0.01)	ng / m ³	1.0 (annual)

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Shubhangi Armarkar
Shubhangi Armarkar
(Technical Manager)

Authorized Signatory

S.D. Garway
Dr. (Mrs.) S.D. Garway
(Quality Manager)

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TEST REPORT

Page 1 of 2

NOISE MONITORING REPORT

Report No.:	ALPL/28042022/1-10	Report Date:	28/04/2022
Issued to:	Ambuja Cements Limited (Unit:Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493 331.		P.O. No. 2800844711/1/NE08/ 24/05/2021
Type of Work:	Noise Monitoring (April-2022)	Sample Ref. No.:	ALPL/05042022/ENV-5-12/N-1
Sample Drawn By:	Anacon Representative	Data Received Date:	6, 20 December-2021
Sampling Procedure	ANtd/7.2/Mon-01	Method	IS 9989:1981(R2001)

Sl. No.	LOCATION	Latitude	Longitude	Date of Monitoring	RESULT dB(A)	
					Day Time	Night Time
1.	New CCR Building	21.672401	82.082396	15/04/2022	56.3	48.1
2.	Main Office Plant	21.672095	82.085227	15/04/2022	62.9	54.7
3.	Rawan Lime Stone North Block Area	21.674702	82.10155	15/04/2022	58.1	47.3
4.	Rawan Lime Stone South Block Area	21.671362	82.095174	15/04/2022	56.3	46.9
5.	Maldi Lime Stone Field Office	21.655444	82.065198	15/04/2022	61.7	54.3
6.	Maldi Limestone Haulage Road	21.651025	82.059124	18/04/2022	64.2	56.7
CPCB Standard						
Industrial Area					75	70

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(Technical Manager)

Authorized Signatory

Dr. (Mrs.) S.D. Garway
(Quality Manager)

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TEST REPORT

Page 2 of 2

NOISE MONITORING REPORT

Report No.:	ALPL/78042022/1-10	Report Date:	28/04/2022
Issued to:	Ambuja Cements Limited (Unit:Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493 331.		P.O. No. 2800844711/1/NE08/ 24/05/2021
Type of Work:	Noise Monitoring (April-2022)	Sample Ref. No.:	ALPL/05042022/ENV-5-12/N-1
Sample Drawn By:	Anacon Representative	Data Received Date:	6, 20 December-2021
Sampling Procedure	ANtd/7.2/Mon-01	Method	IS 9989:1981(R2001)

Sl. No.	LOCATION	Latitude	Longitude	Date of Monitoring	RESULT dB(A)	
					Day Time	Night Time
Industrial Area						
1.	Near TPP Area	21.669134	82.083012	15/04/2022	63.1	58.2
2.	AFR Office	21.669469	82.079136	15/04/2022	52.7	41.9
Residential Area						
3.	Turma Village	21.680366	82.012427	18/04/2022	47.3	38.2
4.	Dhandani Village	21.635852	82.091727	18/04/2022	52.6	43.9
5.	Ambuja Colony	21.681457	82.093558	15/04/2022	54.1	41.6
6.	Arjuni Village	21.694236	82.060894	18/04/2022	47.3	37.3
7.	Bhatagaon Village	21.647449	82.135291	18/04/2022	52.8	43.9
CPCB Standards						
Industrial Area					75	70
Commercial Area					65	55
Residential Area					55	45
Silence Zone					50	40

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Verified by

Shubhangi Armarkar

Shubhangi Armarkar
(Technical Manager)

Authorized Signatory

Dr. (Mrs.) S.D. Garway

Dr. (Mrs.) S.D. Garway
(Quality Manager)

End of Report

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TEST REPORT

Page 1 of 1

Workplace Air Quality Analysis Report

Report No.:-	AI.PI/28042022/1		Report Date: - 28/04/2022
Issued To:-	Ambuja Cements Limited (Unit: Bhatapara) P.O. Rawan, Tehsil: Baloda Bazar, Dist - Baloda Bazar-Bhatapara-493 331.		
Type of Work:-	Workplace Air Monitoring	Sample Ref.No. :	ALPL/05042022/ENV-5-13 F-1 to F-10
Sample Drawn By:-	Anacon Representative	Sample Received Date	11,18,22 April-2022
Date of Analysis:-	11,18,22 April-2022	Testing Period	01 Day

Sr. No.	LOCATION	Date of Sampling	SPM ($\mu\text{g}/\text{m}^3$)
Method			IS 5182 (Part-4)
1.	TLM Packing Plant	01/04/2022	516
2.	Railway Operation Area	02/04/2022	603
3.	TPP Area	04/04/2022	724
4.	Coal Yard CPP Area	05/04/2022	852
5.	Near AFR Area	06/04/2022	694
6.	Mines Loading Area	07/04/2022	731
7.	Fly Ash Loading CPP	08/04/2022	794
8.	Coal Yard	09/04/2022	802
9.	South Block Field Office	11/04/2022	547
10.	South Block Haulage Road	12/04/2022	1193
11.	North Block Field Office Area	13/04/2022	647
12.	North Block Haulage Road	15/04/2022	759
13.	Near Workshop Area (Maldi Mines)	16/04/2022	681
14.	Crusher Area (Maldi Mines)	19/04/2022	872
Norms			2000

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Shubhangi Armarkar
(Technical Manager)

Authorized Signatory

S.D. Garway
Dr. (Mrs.) S.D. Garway
(Quality Manager)

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TEST REPORT

Stack Emission Monitoring Report

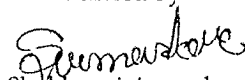
Report No.: ALPL/20042022/1 11			Date: 20/04/2022
Issued to	Ambuja Cements Limited (Unit:Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493 331.		P. O. No.
			2800844711/1/NE08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	TPP 1x15 MW (Old Boiler No.1)	Sample Quantity/Packing	Thimble. 1 X 1 No. SO ₂ : 30 mL X 1No. PVC Bottle NO _x : 30 mL X 1No. PVC Bottle
Sample Ref. No.:	ALPL/05042022/ENV 5 S1	Date of Sampling	01/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	05/04/2022
Date of Start of Analysis	06/04/2022	Date of Completion of Analysis	07/04/2022

Stack Details				
Stack Height		70.0		Meter
Stack diameter		2.8		Meter
Type of Fuel		Coal		--
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	131	-	IS:11255 (Part 3)
Flue gas velocity	m/s	14.83	-	IS:11255 (Part 3)
Total gas quantity	m ³ /h	328467.59	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm ³ /h	242285.50	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm ³	24.06	30	IS:11255 (Part 1)
Sulphur Dioxide (SO ₂)	mg/Nm ³	364.29	600	IS 11255 (Part 2)
Oxide of Nitrogen (NO _x)	mg/Nm ³	116.32	300	IS 11255 (Part 7)
Mercury (Hg)	mg/Nm ³	0.0018	0.03	EPA-0060

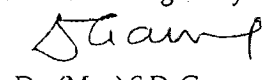
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Authorized Signatory


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 (Quality Manager)

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TEST REPORT

Stack Emission Monitoring Report

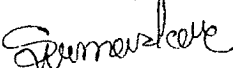
Report No.: ALPL/20042022/1-12			Date: 20/04/2022
Issued to	Ambuja Cements Limited (Unit:Bhatapara) P.O. Rawan, Tehsil Baloda Bazar. Dist - Baloda Bazar-Bhatapara -493 331		P. O. No.
			2800844711/1/NE08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	TPP Boiler 2 & 3	Sample Quantity/Packing	Thimble: 1 X 1 No. SO ₂ : 30 mL X 1No. PVC Bottle NO _x : 30 mL X 1No. PVC Bottle
	Latitude:-21.668954, Longitude: 82.083842		
Sample Ref. No.:	ALPL/05042022/ENV-5-S2	Date of Sampling	02/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	05/04/2022
Date of Start of Analysis	06/04/2022	Date of Completion of Analysis	07/04/2022

Stack Details				
Stack Height		108	Meter	
Stack diameter		4.6	Meter	
Type of Fuel		Coal	--	
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	124	-	IS:11255 (Part 3)
Flue gas velocity	m/s	16.42	-	IS:11255 (Part 3)
Total gas quantity	m ³ /h	981865.46	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm ³ /h	737017.40	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm ³	23.12	30	IS:11255 (Part 1)
Sulphur Dioxide (SO ₂)	mg/Nm ³	384.71	600	IS 11255 (Part 2)
Oxide of Nitrogen (NO _x)	mg/Nm ³	176.29	300	IS 11255 (Part 7)
Mercury (Hg)	mg/Nm ³	0.0016	0.03	EPA-0060

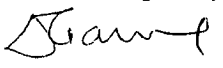
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TEST REPORT

Stack Emission Monitoring Report

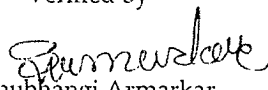
Report No.: ALPL/20042022/1-13			Date: 20/04/2022
Issued to	Ambuja Cements Limited (Unit: Bhatapara)		P. O. No.
	P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493 331.		2800844711/1/NE08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	TPP Boiler (33 MW)	Sample Quantity/Packing	Thimble: 1 X 1 No. SO ₂ : 30 mL X 1 No. PVC Bottle NO _x : 30 mL X 1 No. PVC Bottle
	Latitude:-21.658954, Longitude: 82.083952		
Sample Ref. No.:	ALPL/05042022/ENV-5-S3	Date of Sampling	04/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	05/04/2022
Date of Start of Analysis	06/04/2022	Date of Completion of Analysis	07/04/2022

Stack Details				
Stack Height		84		Meter
Stack diameter		4.3		Meter
Type of Fuel		Coal		--
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	128	-	IS:11255 (Part 3)
Flue gas velocity	m/s	16.55	-	IS:11255 (Part 3)
Total gas quantity	m ³ /h	864662.39	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm ³ /h	642567.06	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm ³	25.09	30	IS:11255 (Part 1)
Sulphur Dioxide (SO ₂)	mg/Nm ³	356.27	600	IS 11255 (Part 2)
Oxide of Nitrogen (NO _x)	mg/Nm ³	163.19	300	IS 11255 (Part 7)
Mercury (Hg)	mg/Nm ³	0.0014	0.03	EPA-0060

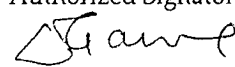
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Verified by


Shubhangi Armarkar
(Technical Manager)

Authorized Signatory


Dr. (Mrs.) S.D. Garway
(Quality Manager)

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

Laboratory address : FP-34, 35, Food Park, 5 Star Industrial Estate, MIDC Butibori, Nagpur - 441 122.

Email : support@anacon.in;

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- Export inspection council (EIC); AGMARK.

TEST REPORT

Stack Emission Monitoring Report

Report No.: ALPL/20042022/1-14			Date: 20/04/2022
Issued to	Ambuja Cements Limited (Unit: Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493 331.		P. O. No.
			2800844711/1/NE08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	Raw Mill/Kiln Line-02 Latitude:-21.67203, Longitude: 82.082389	Sample Quantity/Packing	Thimble: 1 X 1 No. SO ₂ : 30 mL X 1 No. PVC Bottle NO _x : 30 mL X 1 No. PVC Bottle
Sample Ref. No.:	ALPL/05042022/ENV-5-S4	Date of Sampling	04/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	05/04/2022
Date of Start of Analysis	06/04/2022	Date of Completion of Analysis	07/04/2022

Stack Details				
Stack Height		100.0	Meter	
Stack diameter		6.2	Meter	
Type of Fuel		Coal	--	
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	164	-	IS:11255 (Part 3)
Flue gas velocity	m/s	18.24	-	IS:11255 (Part 3)
Total gas quantity	m ³ /h	1981864.21	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm ³ /h	1351477.20	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm ³	24.16	30	IS:11255 (Part 1)
Sulphur Dioxide (SO ₂)	mg/Nm ³	8.27	100	IS 11255 (Part 2)
Oxide of Nitrogen (NO _x)	mg/Nm ³	453.91	800	IS 11255 (Part 7)

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(Technical Manager)

Authorized Signatory

Dr. (Mrs.) S.D. Garway
(Quality Manager)

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TEST REPORT

Stack Emission Monitoring Report

Report No.: ALPL/20042022/1-15			Date: 20/04/2022
Issued to	Ambuja Cements Limited (Unit: Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493 331.		P. O. No.
			2800844711/1/NE08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	Raw Mill/Kiln Line-02 Latitude:-21.67203, Longitude: 82.082389	Sample Quantity/Packing	Thimble: 1 X 1 No. SO ₂ : 30 mL X 1 No. PVC Bottle NO _x : 30 mL X 1 No. PVC Bottle
Sample Ref. No.:	ALPL/05042022/ENV-5-S5	Date of Sampling	12/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	18/04/2022
Date of Start of Analysis	18/04/2022	Date of Completion of Analysis	19/04/2022

Stack Details				
Stack Height		100.0		Meter
Stack diameter		6.2		Meter
Type of Fuel		Coal		--
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	168	-	IS:11255 (Part 3)
Flue gas velocity	m/s	17.54	-	IS:11255 (Part 3)
Total gas quantity	m ³ /h	1905728.04	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm ³ /h	1287770.88	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm ³	19.69	30	IS:11255 (Part 1)
Sulphur Dioxide (SO ₂)	mg/Nm ³	8.57	100	IS 11255 (Part 2)
Oxide of Nitrogen (NO _x)	mg/Nm ³	426.38	800	IS 11255 (Part 7)

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 (Technical Manager)

Authorized Signatory

Dr. (Mrs.) S.D. Garway
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TEST REPORT

Stack Emission Monitoring Report

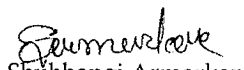
Report No.: ALPL/20042022/1-16			Date: 20/04/2022
Issued to	Ambuja Cements Limited (Unit:Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493 331		P. O. No.
			2800844711/1/NE08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	Clinker Cooler Line-2 Latitude:-21.673938, Longitude: 82.081696	Sample Quantity/Packing	Thimble: 1 X 1 No.
Sample Ref. No.:	ALPL/05042022/ENV-5-S6	Date of Sampling	05/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	07/04/2022
Date of Start of Analysis	08/04/2022	Date of Completion of Analysis	08/04/2022

Stack Details				
Stack Height		63	Meter	
Stack diameter		5.5	Meter	
Type of Fuel		NA	--	
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	264	-	IS:11255 (Part 3)
Flue gas velocity	m/s	22.44	-	IS:11255 (Part 3)
Total gas quantity	m³/h	1918599.40	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm³/h	1064697.62	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm³	23.51	30	IS:11255 (Part 1)

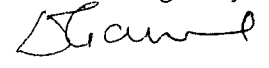
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(Technical Manager)

Authorized Signatory


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(Quality Manager)

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TEST REPORT

Stack Emission Monitoring Report

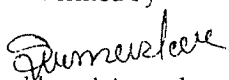
Report No.: ALPL/20042022/1-17			Date: 20/04/2022
Issued to	Ambuja Cements Limited (Unit: Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist Baloda Bazar-Bhatapara -493 331.		P. O. No.
			2800844711/1/NE08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	Coal Mill Line-02 Latitude:-21.672037, Longitude: 82.083571	Sample Quantity/Packing	Thimble: 1 X 1 No.
Sample Ref. No.:	ALPL/05042022/ENV-5-S7	Date of Sampling	06/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	08/04/2022
Date of Start of Analysis	08/04/2022	Date of Completion of Analysis	08/04/2022

Stack Details				
Stack Height		94.0		Meter
Stack diameter		3.2		Meter
Type of Fuel		NA		--
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	54	-	IS:11255 (Part 3)
Flue gas velocity	m/s	13.83	-	IS:11255 (Part 3)
Total gas quantity	m³/h	400348.23	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm³/h	364843.34	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm³	16.51	30	IS:11255 (Part 1)

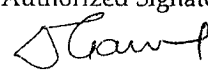
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(Technical Manager)

Authorized Signatory


Dr. (Mrs.) S.D. Garway
(Quality Manager)

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TEST REPORT

Stack Emission Monitoring Report

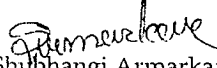
Report No.: ALPL/20042022/1-18			Date: 20/04/2022
Issued to	Ambuja Cements Limited (Unit:Bhatapara) P.O. Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493 331.		P. O. No.
			2800844711/1/NF08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	Coal Mill Line-02	Sample Quantity/Packing	Thimble: 1 X 1 No
	Latitude:-21.672037, Longitude: 82.083571		
Sample Ref. No.:	ALPL/05042022/ENV-5-S8	Date of Sampling	15/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	18/04/2022
Date of Start of Analysis	18/04/2022	Date of Completion of Analysis	18/04/2022

Stack Details				
Stack Height		94.0		Meter
Stack diameter		3.2		Meter
Type of fuel		NA		--
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	51	-	IS:11255 (Part 3)
Flue gas velocity	m/s	14.08	-	IS:11255 (Part 3)
Total gas quantity	m³/h	407350.30	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm³/h	374661.70	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm³	17.38	30	IS:11255 (Part 1)

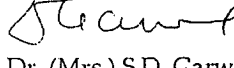
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TEST REPORT

Stack Emission Monitoring Report

Report No.: ALPL/28042022/1-19			Date: 28/04/2022
Issued to	Ambuja Cements Limited (Unit:Bhatapara) P O Rawan, Tehsil Baloda Bazar, Dist - Baloda Bazar-Bhatapara -493331.		P. O. No.
			2800844711/1/NE08/ 24/05/2021
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Anacon Laboratory
Sampling Location	Cement Mill-01	Sample Quantity/Packing	Thimble: 1 X 1 No.
	Latitude:-21.673785, Longitude: 82.084202		
Sample Ref. No.:	ALPL/05042022/ENV-5-S9	Date of Sampling	23/04/2022
Sampling Procedure	ANtd/7.2/Mon-01	Date of Receipt of Sample	25/04/2022
Date of Start of Analysis	26/04/2022	Date of Completion of Analysis	26/04/2022

Stack Details				
Stack Height		40.0		Meter
Stack diameter		1.0		Meter
Type of Fuel		NA		--
Parameter	Unit	Result	*Norms	Method Reference
Flue gas temperature	°C	58	-	IS:11255 (Part 3)
Flue gas velocity	m/s	11.47		IS:11255 (Part 3)
Total gas quantity	m³/h	32424.16	-	IS:11255 (Part 3)
Total gas quantity at NTP	Nm³/h	29191.54	-	IS:11255 (Part 3)
Total Particulate Matter (PM)	mg/Nm³	17.32	30	IS:11255 (Part 1)

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Ambuja Cement

Letter No. ACL/BYT/ENV/2021-22/ 160

Date: 30.12.2021

To,
The Divisional Forest Officer,
District Balodabazar
Chhattisgarh

Subject-Submission of physical verification report of plantation and greenbelt development at Ambuja Cements Limited (Bhatapara Unit), Rawan Limestone mines & Maldi Mopar Limestone mines.

Ref- 1. EC letter no.J-11011/289/2005-IA II (I) dated 6th Jan., 2006. (Cement Plant)
2. EC letter no.J-11015/330/2006-IA II (I) dated 08th June, 2007. (Rawan Limestone Mine)
3. EC letter no.J-11015/252/2008-IA.II (M) Date: 13th August, 2010 (Maldimopar Mine)

Dear Sir,

Ambuja Cements Limited (ACL) is a leading manufacturer of various types of cements in India. ACL has always been in the forefront to undertake environmental safeguards & improvement initiatives in all production units and facilities. All units of ACL are certified to Environment Management System (ISO - 14001).

The Bhatapara Unit of Ambuja Cements Ltd. was originally established in 1987 under Management of Modi Cement Ltd. with a capacity of 1.8 MTPA cement. ACL took over the plant in 1998. This unit currently has clinker manufacturing capacity of 4.8 MTPA & cement manufacturing capacity of 3.5 MTPA.

As per above ref. 1 to 3, following Greenbelt/ Plantation conditions are given in respective ECs.

1. Green belt shall be developed 33% of the plant area (Please refer Sp. Condition pt. no. VII of EC dated 6th Jan., 2006 Cement Plant EC)
2. Plantation shall be raised in an area of 98.04 ha including green belt of adequate width by planting the native species around the ML area (Please refer as per Sp. Condition pt. no. V of Rawan Limestone Mine EC dated 08th June, 2007)
3. Plantation shall be raised in an area of at least 54.15 Ha. including a 7.5 m wide green belt in the safety zone around the mine lease. (Please refer as per Sp. Condition pt. no. VI of EC dated 13th August, 2010 for Maldi - Mopar Limestone Mine)



AMBUJA CEMENTS LIMITED

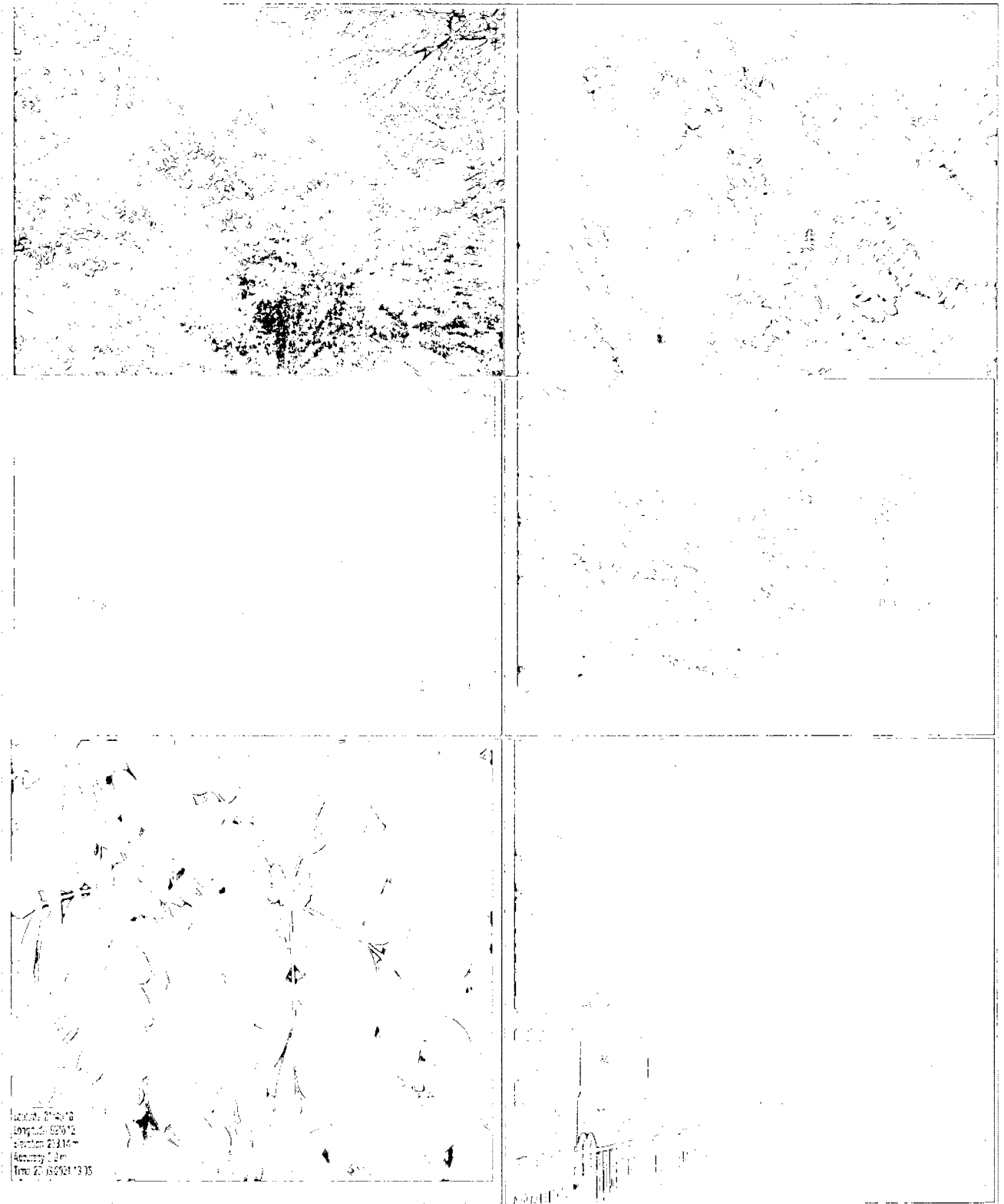
(Unit - Bhatapara)

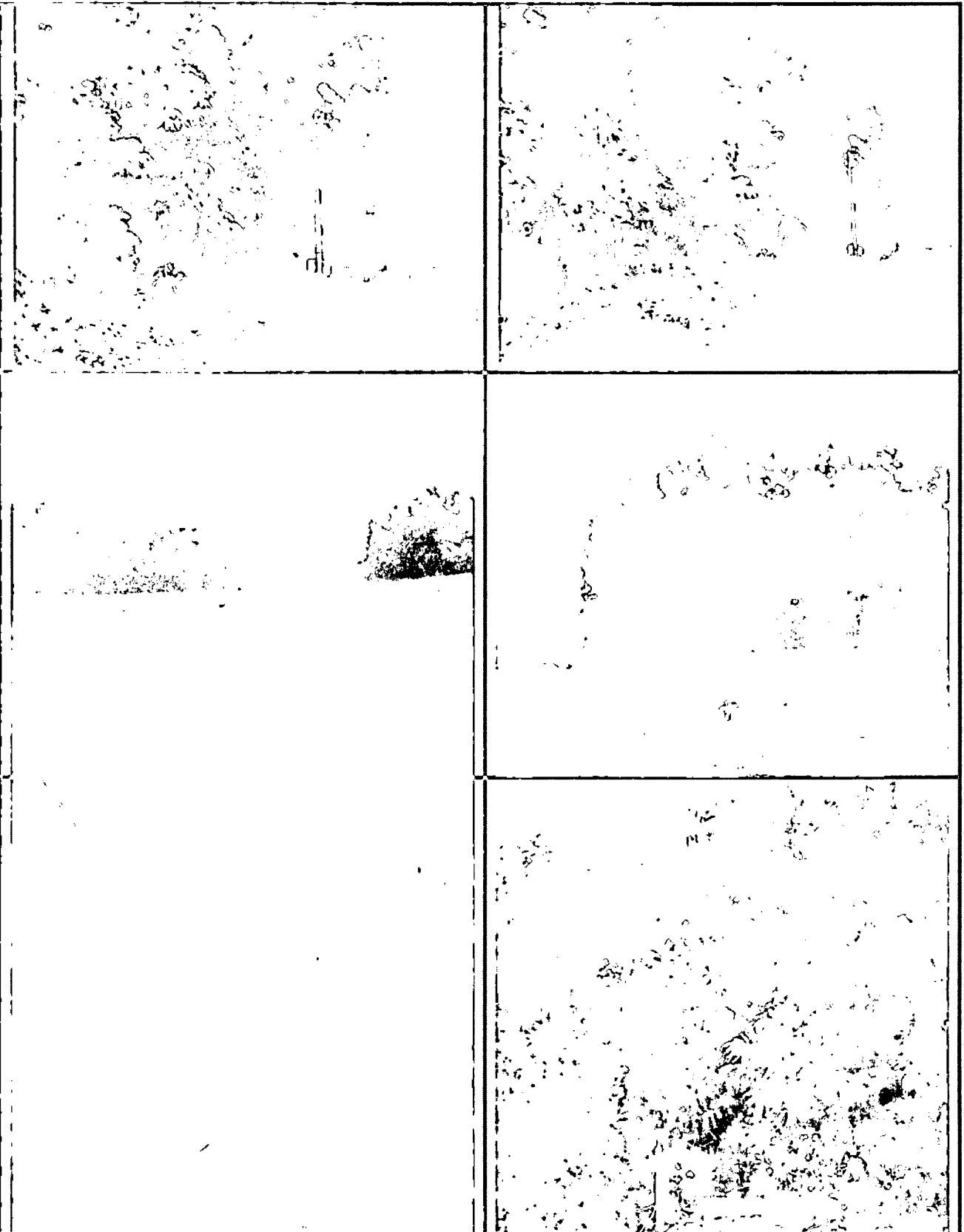
P.O. - Rawan, Tehsil : Balodabazar, District : Balodabazar-Bhatapara, Chhattisgarh-493 331
Ph : 07727-220010 to 15, Fax : 07727-220004

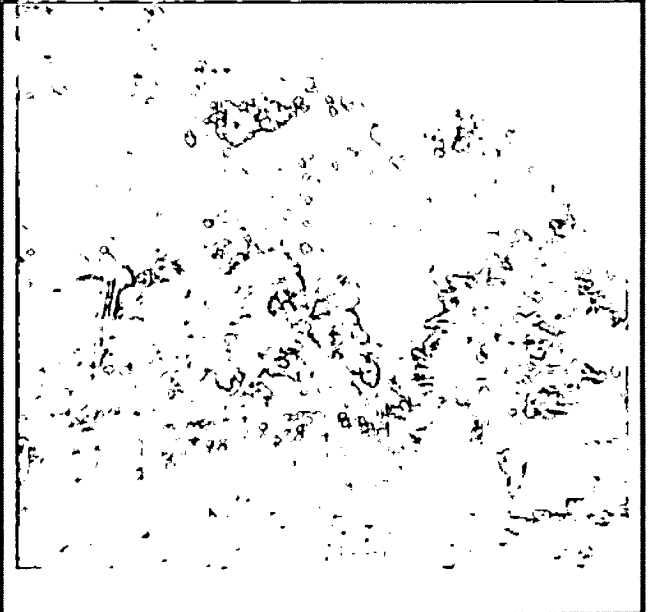
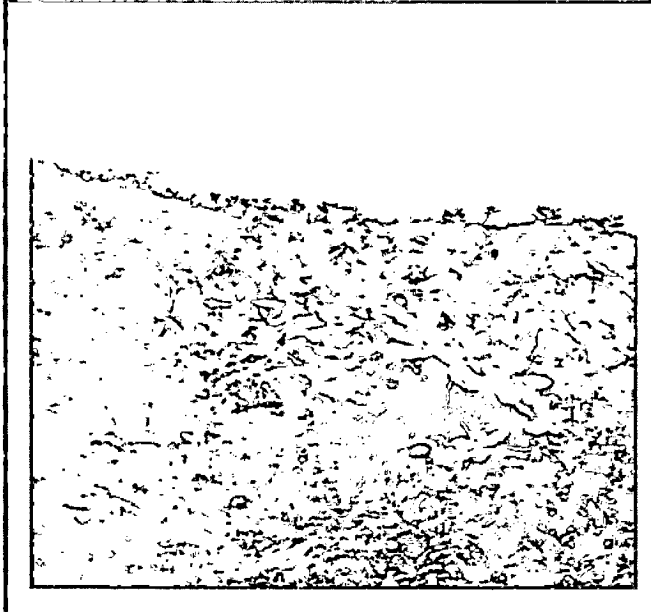
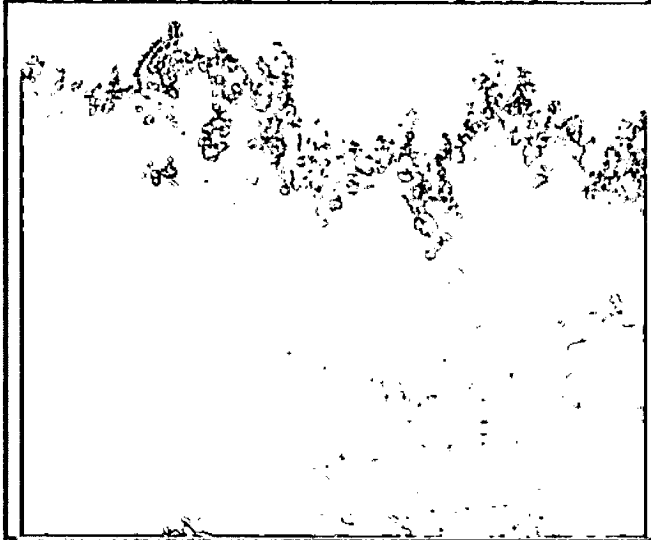
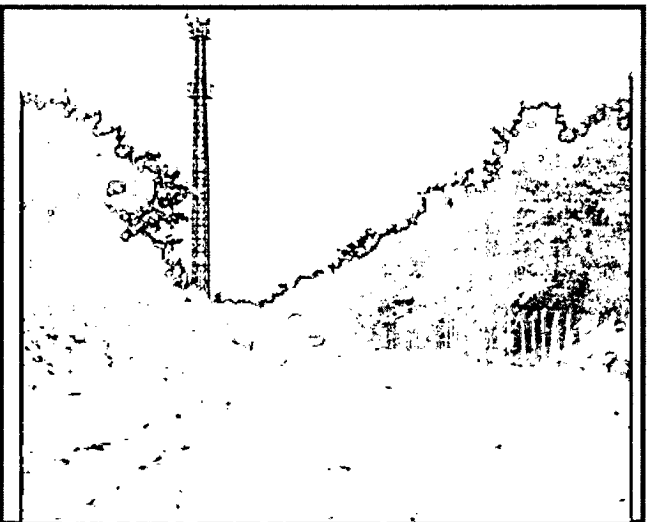
CIN : L2694GJ1981PLC004717, Website : www.ambujacement.com

Registered Office : P.O. - Ambuja Nagar, Taluka - Kodinar, District - Gir Somnath, Gujarat, 362 715

1: GREEN BELT PHOTOGRAPHS











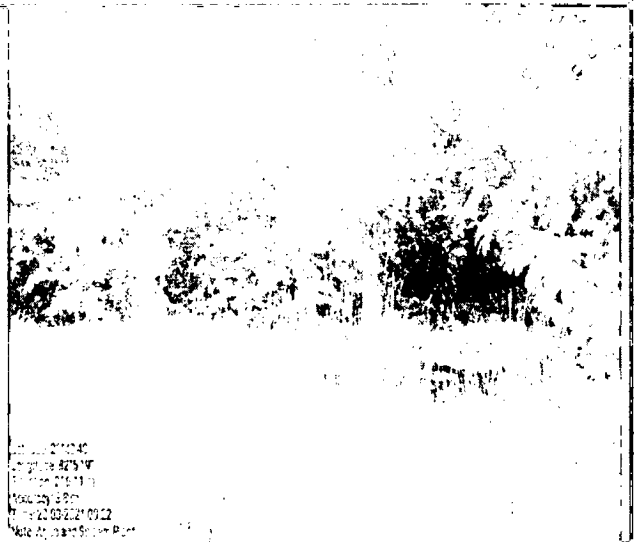
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Longitude 82° 54' 54"
Elevation 261.08 m
Accuracy 3.8 m
Time 20/09/2021 01:25
Note: Main Guard Post



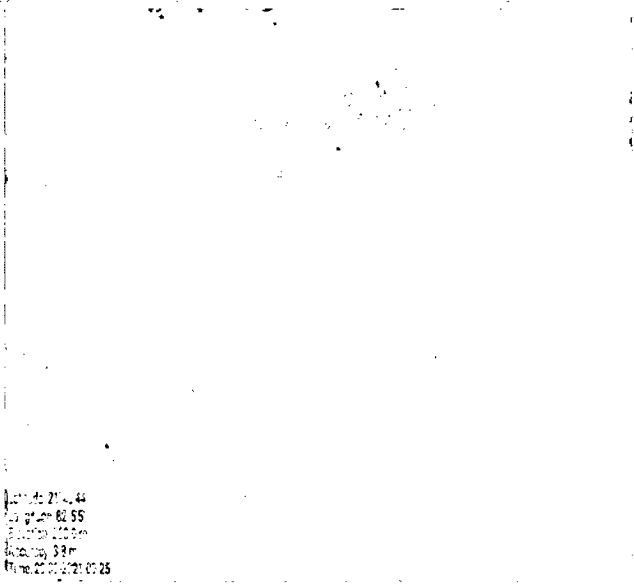
Latitude 21° 42' 42"
Longitude 82° 54' 54"
Elevation 261.08 m
Accuracy 3.8 m
Time 20/09/2021 01:25
Note: Main Guard Post



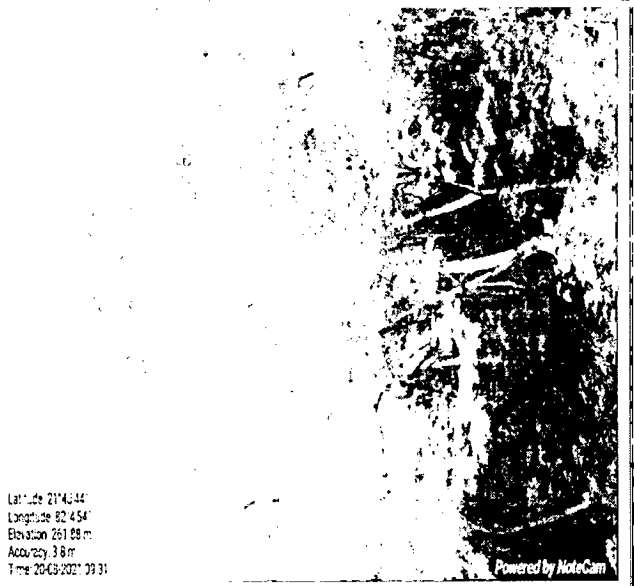
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Elevation 261.08 m
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Time 20/09/2021 01:25
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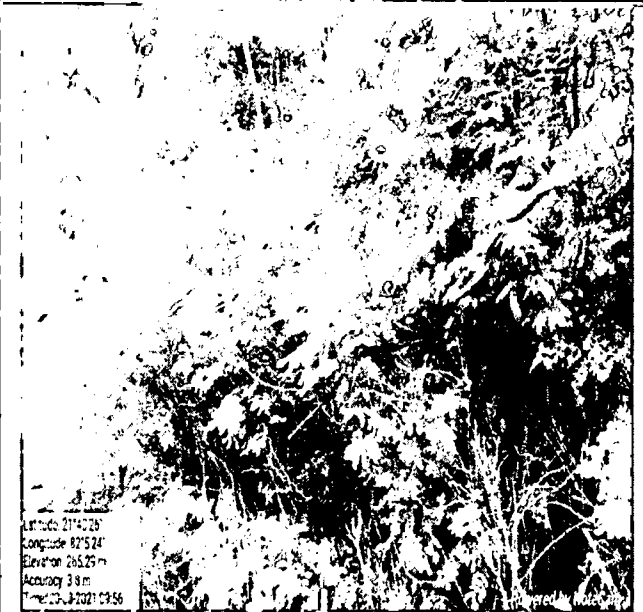
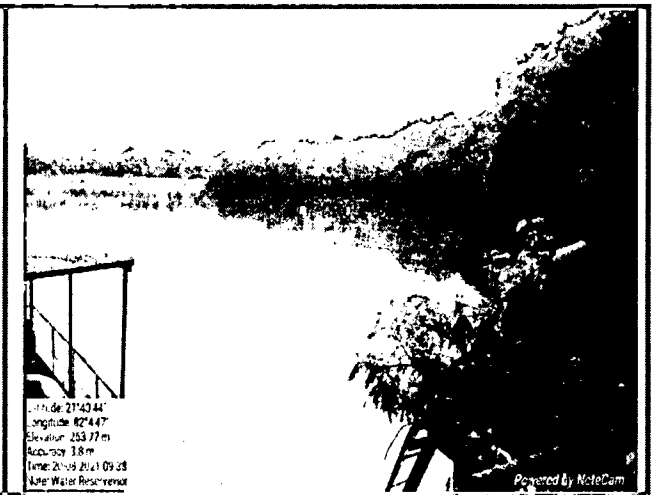
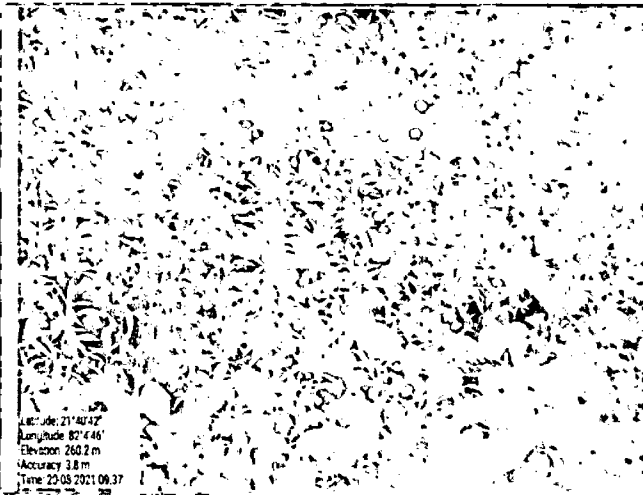


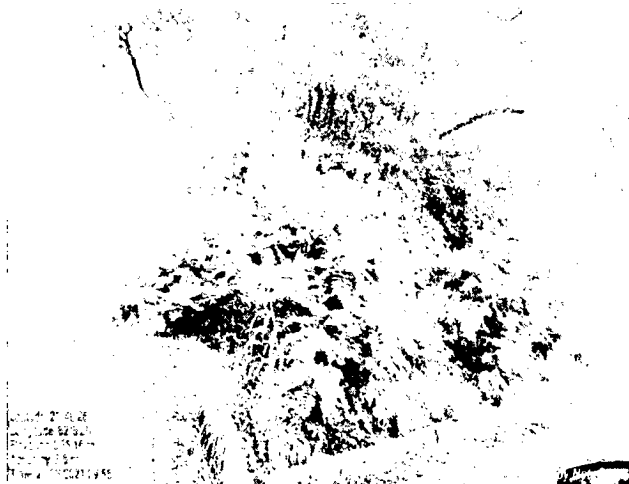
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Longitude 82° 54' 54"
Elevation 261.08 m
Accuracy 3.8 m
Time 20/09/2021 01:25



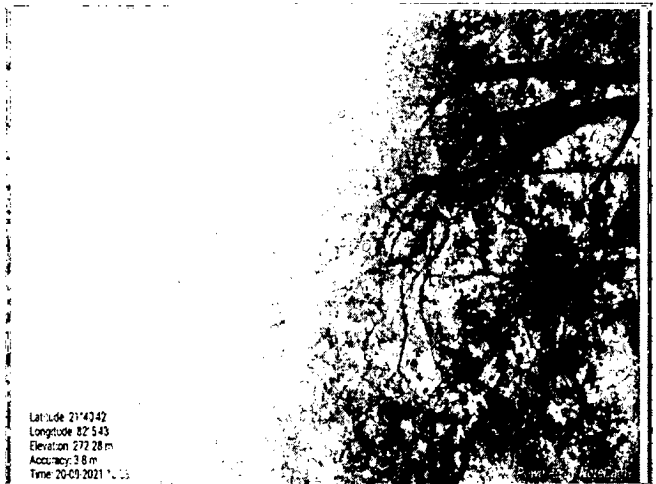
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Elevation 261.08 m
Accuracy 3.8 m
Time 20/09/2021 01:25

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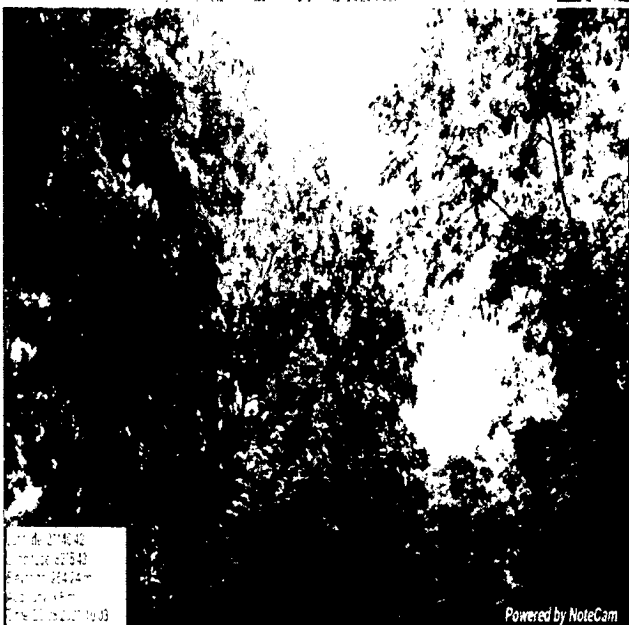




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Longitude 82°54'31"
Elevation 272.28 m
Accuracy 3.8 m
Time 20-03-2021 10:55



Latitude 21°42'42"
Longitude 82°54'31"
Elevation 272.28 m
Accuracy 3.8 m
Time 20-03-2021 10:55



Latitude 21°42'42"
Longitude 82°54'31"
Elevation 269.85 m
Accuracy 3.9 m
Time 20-03-2021 10:55

Powered by NoteCam



Latitude 21°42'42"
Longitude 82°54'31"
Elevation 269.85 m
Accuracy 3.9 m
Time 20-03-2021 10:55

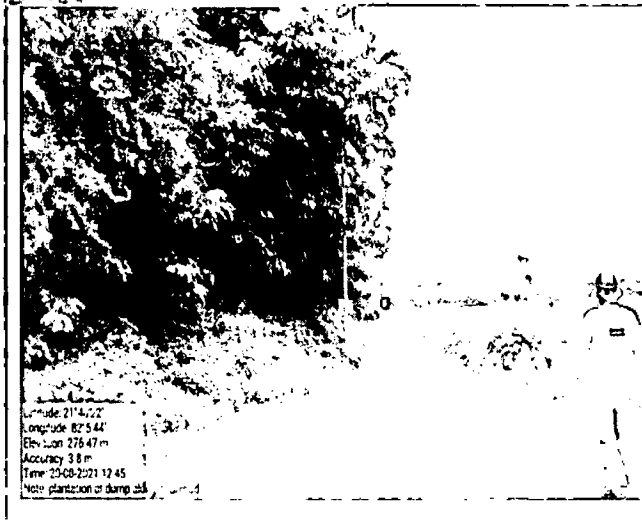
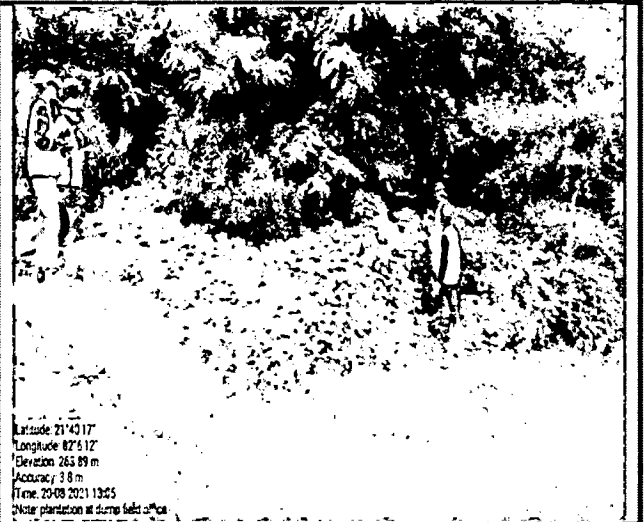
Note: position may vary

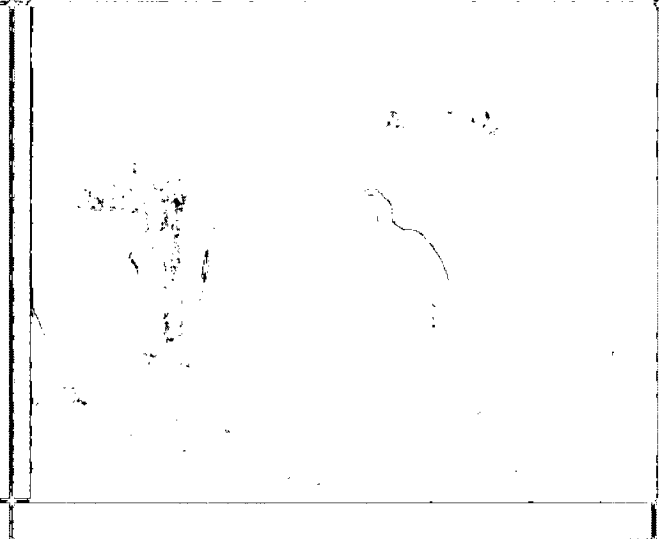
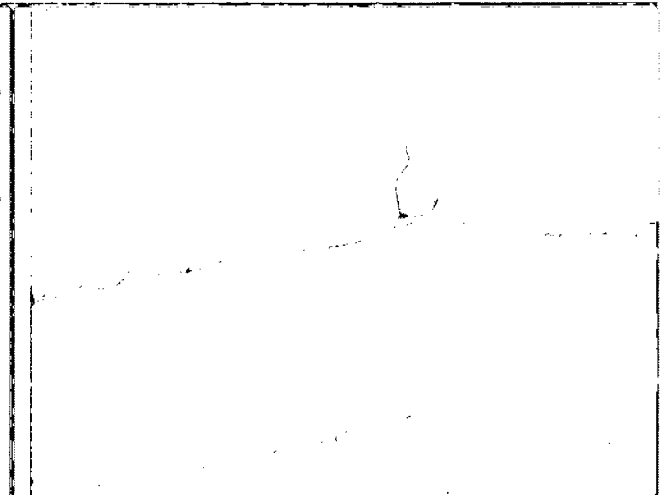
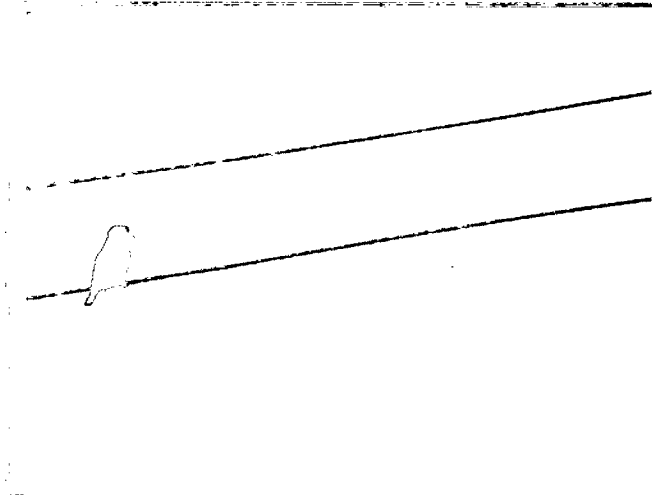
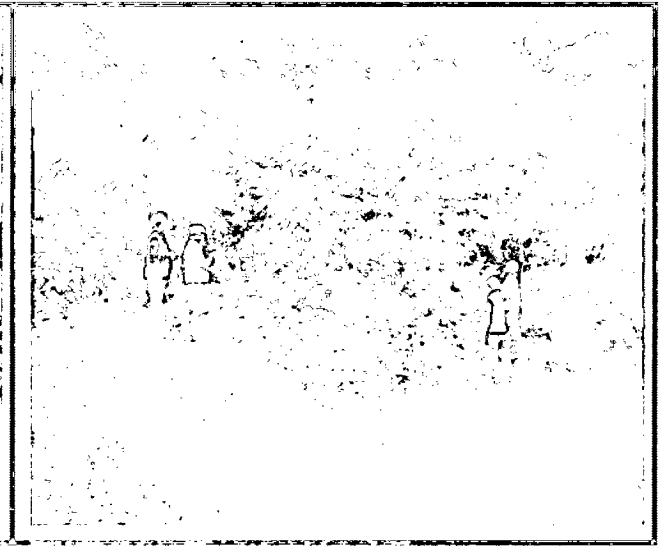
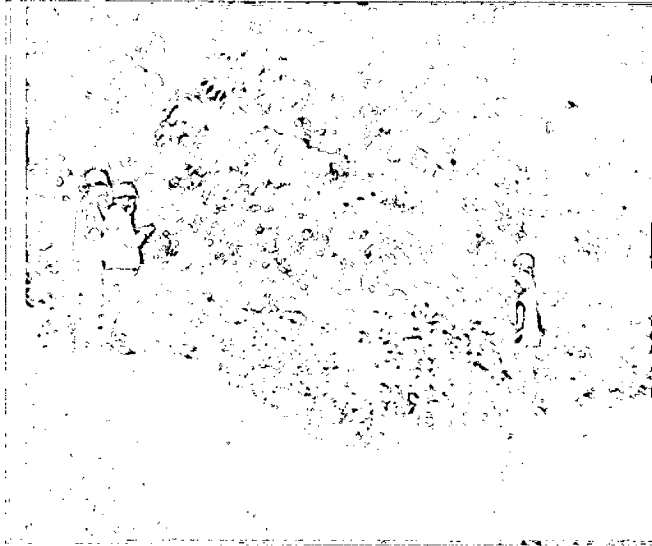


Latitude 21°42'42"
Longitude 82°54'31"
Elevation 269.85 m
Accuracy 3.9 m
Time 20-03-2021 10:55

Note: position may vary

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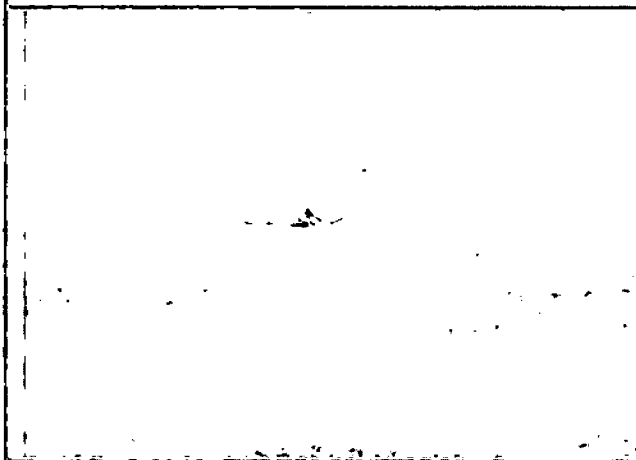
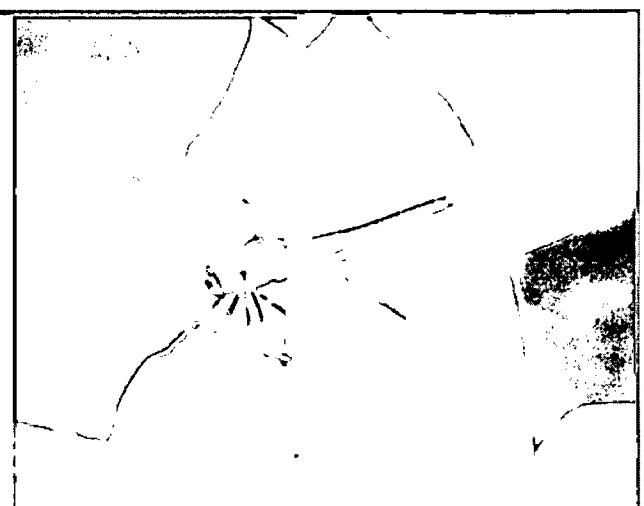


PLATE 4: BUTTERFLY AND GROSSHOPPER PHOTOGRAPHS



Sl.No.	THEMATIC WISE ACF BUDGET EXPENDITURE FOR FOUR FINANCIAL YEARS					
	Program/Activity	Amount In Rs.	Amount In Rs.	Amount In Rs.	Amount In Rs.	Total
		F.Y.18-19	F.Y. 19-20	F.Y. 20-21	F.Y.21-22	
1	water Resource Development /Portable water facilities and drinking water	70,51,021	34,02,340	19,35,604	41,18,822	1,65,07,787
2	Education Development	10,77,402	18,92,266	8,29,219	19,47,288	57,46,175
3	Integrated Rural development Expenses	1,12,81,428	1,33,42,865	90,32,943	1,00,20,503	4,36,77,739
4	Health & Sanitation Development	17,54,908	38,75,718	52,13,775	87,45,743	1,95,90,144
5	Vocational Training Expenses	36,52,621	48,45,082	41,19,771	57,26,950	1,83,44,424
6	Agriculture development	33,51,396	36,79,360	40,09,319	53,37,507	1,63,77,582
7	Non conventional energy	7,70,000		6,26,500		13,96,500
8	Women Development	13,43,967	11,64,310	14,19,954	15,99,904	55,28,135
	Total	3,02,82,743	3,22,01,941	2,71,87,085	3,74,96,717	12,71,68,486

Annexure –V**Environmental Expenditure for the Period (October 2021- March 2022)**

S.No.	Particulars	Cost (in Lacs)
1	Environment Monitoring	19.5
2	CAAQMS Spares Charge	6.53
3	New Effluent Monitoring System QM Annual maintenance Charge	11.5
4	Garland Darin Constrcution	15
5	Water Flow Meter & Piezometer Installation	33.5
7	CEMS Annual Maintenance Charge	3
8	Mobile Fog Dust Supression system	11
9	Bag House Line 1 & 2 and Packing Section	300.53
10	New Sweeping Machines (Nos 2)	46
11	Sweeping Machine Charge (Recurring Cost)	66
12	Plantation and its Maintenance Cost	8.83
13	Stack monitoring system Replacement (Nos. 7)	33
14	Environmental & Horticulture Expenses	86.88
Total		641.27

Environment Bhatapara <environment.bhatapara-ind@ambujacement.com>

Bhatapara_Cement Plant_Half Yearly EC Compliance Report_Apr2021_Sep2021

Environment Bhatapara <environment.bhatapara-ind@ambujacement.com>

Tue, Nov 30, 2021 at 7:00 PM

To: IRO Raipur <iro.raipur-mefcc@gov.in>, CPCB RD Bhopal <cpcb.bhopal@gmail.com>, Head Office CECB <hocecb@gmail.com>, Regional Officer <rocecbraipur2014@gmail.com>, eccompliance-cg@gov.in

Dear Sir,

Please find the enclosed here with the six monthly EC Compliance Report of stipulated conditions along with Monthly Environmental Monitoring Report for the period (Apr 2021 to September 2021) of Cement plant Complex of Ambuja cements Ltd. Same copy has been uploaded on the company MOEFCC website.

This is for your kind information and record please.

Regards

Subhash Awasthi,
Head Environment,
Ambuja Cement Ltd (Bhatapara Unit),
Rawan Village, Baloda Bazar Dist.,
Chhattisgarh-493331,
Office: 8982073666.



Bhatapara_Cement Plant_Half Yearly EC Compliance Report_Apr2021_Sep2021.pdf

10506K

Ambuja Cement

प्रति,

- 1- अध्यक्ष,
जिला पंचायत रायपुर
- 2- अध्यक्ष,
नगरपालिका परिषद बलौदाबाजार
- 3- सरपंच,
ग्राम पंचायत रवान, भद्रापाली, पौसरी, कुकुरदीह भरसेली
तहसील बलौदाबाजार जिला रायपुर छ०ग०

माननीय महोदय,

अम्बुजा सीमेंट लिमिटेड रवान के अभ्यावेदन पर भारत शासन पर्यावरण एवं वन मंत्रालय नई दिल्ली ने अपने पत्र दिनांक 13 मई 2011 द्वारा सिमेंट संयंत्र के विस्तारीकरण के फलस्वरूप उत्पादन क्षमता 1.8 एम०टी०पी०ए० में वृद्धि करते हुए 3.5 एम०टी०पी०ए० बढ़ाने की अनुमति प्रदान की है कि नियमानुसार कम्पनी द्वारा पर्यावरण से संबंधित निर्देशों का पालन किया जावेगा।

इस संदर्भ में निर्देशानुसार भारत शासन पर्यावरण एवं वन मंत्रालय के आदेश की प्रतिलिपि इस पत्र के साथ आपकी जानकारी के लिए संलग्न है।

दिनांक - 18/5/2011

संलग्न - पर्यावरण एवं वन मंत्रालय भारत

शासन का पत्र दिनांक 13/5/2011

की छायाप्रति

वास्ते

अम्बुजा सिमेंट लिमिटेड

रमेश मिश्रा

प्रबंधक (जन सम्पर्क)

राधा कृष्ण मिश्रा
राधा कृष्ण
सरपंच
ग्राम पंचायत रवान
वि.खं.बलौदाबाजार (छ.ग.)
18/5/2011

राधा कृष्ण मिश्रा
सरपंच
ग्राम पंचायत, भरसेली
18/5/2011

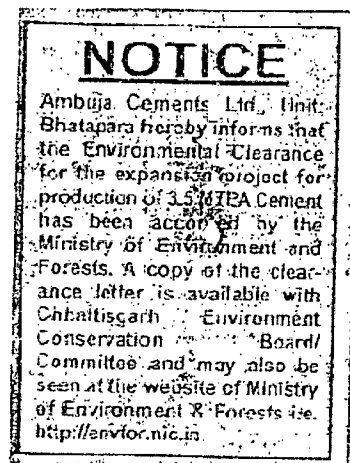
राधा कृष्ण मिश्रा
सरपंच
ग्राम पंचायत पौसरी
वि.खं.बलौदाबाजार (छ.ग.)

AMBUJA CEMENTS LIMITED

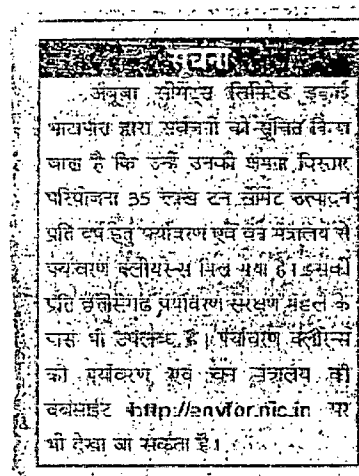
(UNIT - BHATAPARA)

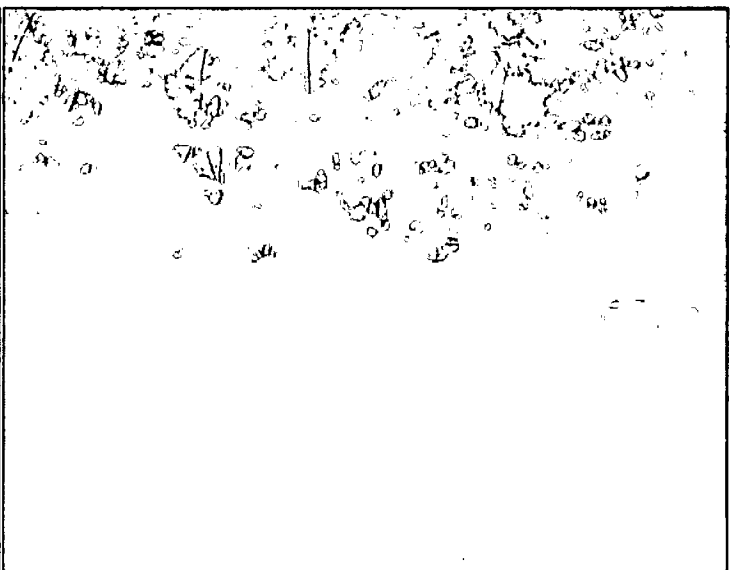
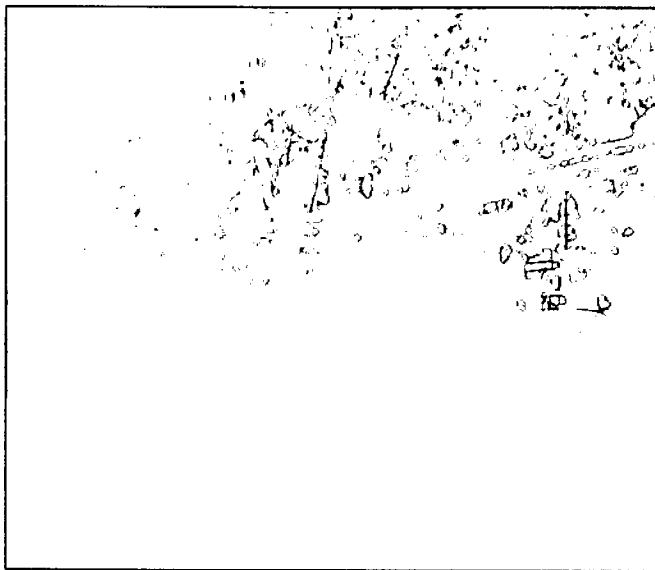
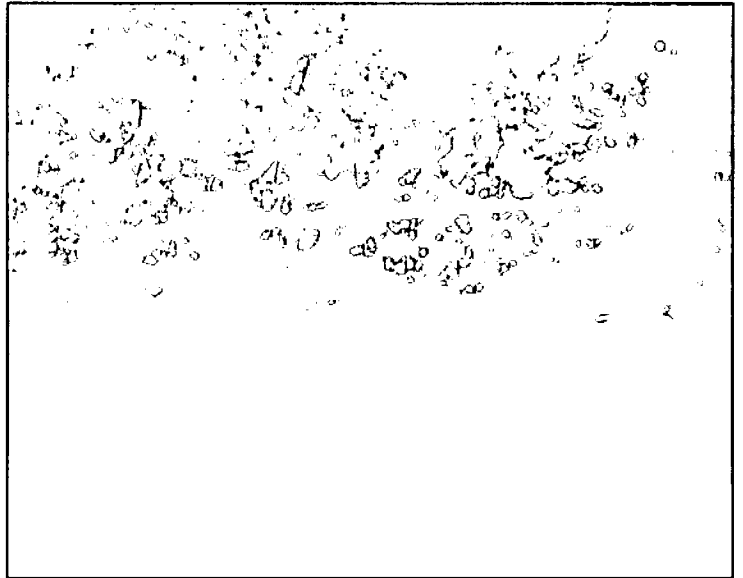
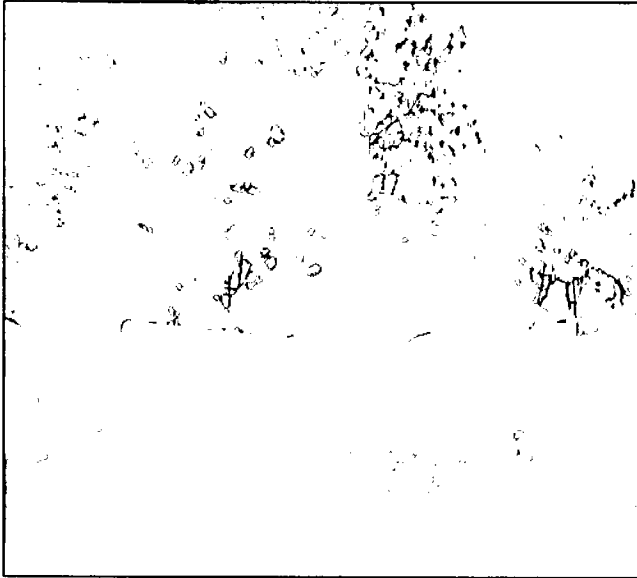
WORKS : P.O. : Rawan, Tehsil : Baloda Bazar, Dist. : Raipur (Chhattisgarh) 493 331, Phone : 07727-220010-15, Fax : 07727-220004
RAIPUR OFFICE : "Matri Chhaya", Ravi Nagar, Raipur-492 001 (C.G.) Ph. : 0771-2422039, 2424382, 2425311, Fax : 0771-4010030
REGD. OFFICE : P.O. : Ambuja Nagar, Taluka : Kodinar, Dist. : Junagarh, Gujarat-362 715

Central Chronicle Date - 05-06-2009



Haribhumi Date - 05-06-2009





Raw materials are transported in covered

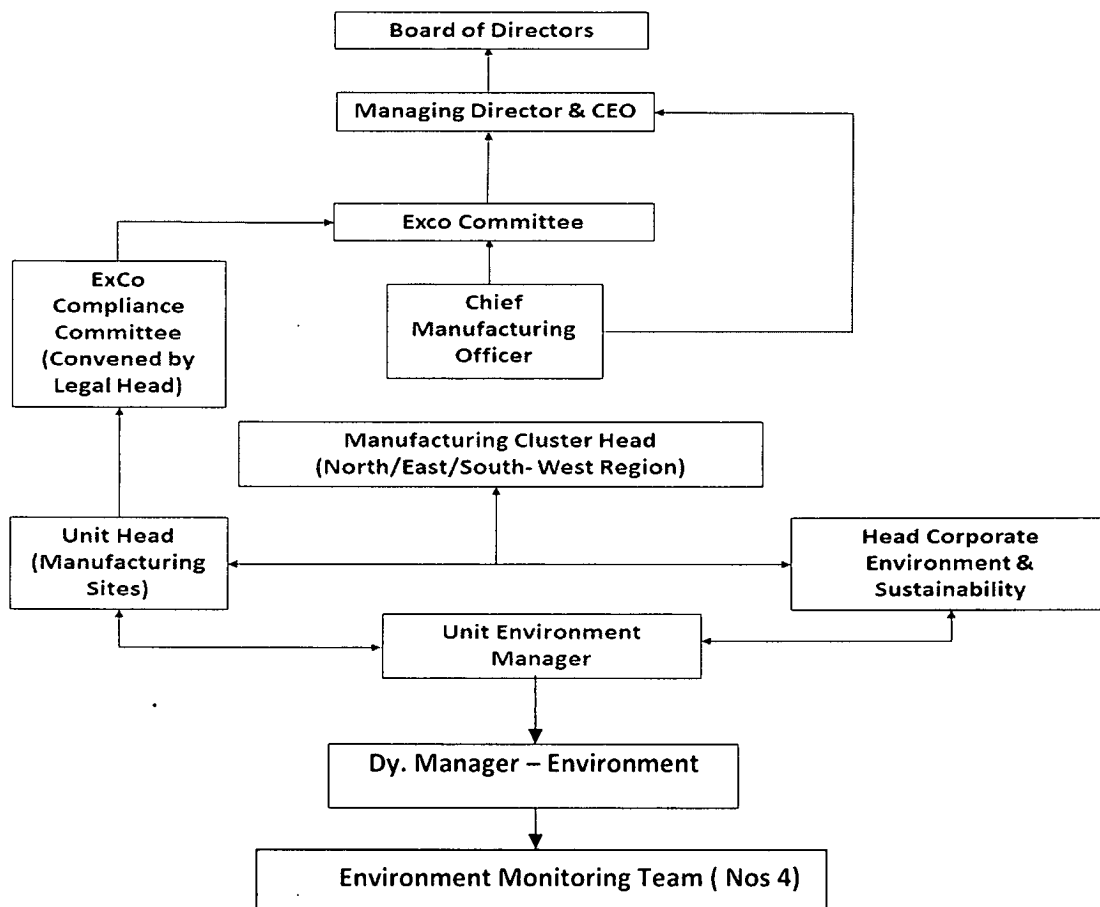
ENVIRONMENTAL MANAGEMENT CELL (EMC)

In order to maintain the environmental quality within the standards, regular monitoring of various environmental components is necessary. M/s.Ambuja Cements Ltd. Is maintaining/ will maintain a full-fledged Environmental Management Cell (EMC) for environmental monitoring and management. The EMC team is responsible for pollution monitoring aspects and implementation of control measures in the plant .

A group of qualified and efficient engineers with technicians has been deputed for maintenance, up keeping and monitoring of the pollution control equipment, to keep them in working at the best of their efficiencies.

Structure of EMC

Structure of Environment Management Cell at M/s. Ambuja Cements Ltd.



Structure of EMC at M/s. Ambuja Cements Ltd.

Responsibilities of EMC

The EMC looks after and implement the various functions to ensure that environmental status of the area remains within the statutory standard of MOEFCC and SPCB. The responsibilities of the EMC include the following:

- ⌘ Procurement and commissioning of Pollution Control/Monitoring Equipment.
- ⌘ Environmental monitoring of the core and buffer zone and evaluation of results. Keeping of records to track the surrounding environment quality status.
- ⌘ Timely Calibration of Pollution Control Equipment and facilities.
- ⌘ Specification and regulation of maintenance schedules for Pollution Control Equipment.
- ⌘ Ensuring that prescribed standards are maintained.
- ⌘ Implementation of the mitigation measures as suggested in EIA/EMP Report.
- ⌘ Ensuring greenbelt development/plantation & its maintenance.
- ⌘ Compliance with guidelines and statutory requirements.
- ⌘ Coordination with statutory bodies, functional groups of the unit, Corporate Project / Environment & Engineering department etc.
- ⌘ Organizing meetings of the Environmental Management Committee.
- ⌘ Interaction with engineering & operation team for implementation of any modification programmes intended to improve the availability / efficiency of pollution control devices / systems.
- ⌘ Carry out proactive environmental studies and observe all precautions necessary to avert disasters and emergencies in the mining observations as well as nearby areas.
- ⌘ Regular environmental review and performance appraisal (Internal) and organizing Environmental / Energy and Water Audits by independent agencies/ 3rd party agencies.
- ⌘ Coordination with the vendors dealing in waste supplies and disposal.
- ⌘ Ensuring that the waste handling and disposal is carried out as per prescribed conditions.
- ⌘ Conducting regular training programmes on various environmental requirements especially sustainable development, climate change, environmental monitoring etc.
- ⌘ Reporting of compliances and non-compliances (if any) to management and other stakeholders.



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

PARYAVAS BHAWAN, NORTH BLOCK, SECTOR -19,

NAVA RAIPUR ATAL NAGAR, RAIPUR (C.G.) 492002

E-mail : hocecb@gmail.com, Ph. No. 0771-2512220

No. 6718/HSMD/HO/CECB/2019

Raipur, Date 06/11/2019

To,

**M/s Ambuja Cements Ltd.,
Village - Rawan, Tehsil- Balodabazar,
Distt. - Balodabazar Bhatapara (C.G.)**

Sub:- Renewal of authorization under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

Ref :- Your Online application no. 2834984 dated 27/04/2019 & Subsequent Correspondence ending dated 15/05/2019.

---00---

The authorization under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 is hereby renewed for the period of **Five Years** i.e. from **14/08/2019 to 13/08/2024**. The details of authorization along with terms & conditions are given as per below:-

FORM 2

[See rule 6 (2)]

GRANT OF AMENDMENT AND SUBSEQUENT RENEWAL OF AUTHORIZATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization **275/HO/HSMD/CECB/ATAL NAGAR, RAIPUR.**
2. Reference of Online application no. **2834984** dated **27/04/2019** & Subsequent Correspondence ending dated **15/05/2019**.
3. The operator of facility i.e. occupier **M/s Ambuja Cements Ltd., (Lime Stone Mines), Village - Rawan, Tehsil- Balodabazar, Distt. - Balodabazar Bhatapara (C.G.)** is hereby granted an authorization based on the signed inspection report from RO for collection, storage, transport, reception & coprocessing of hazardous wastes in the premises situated at **Village - Rawan, Tehsil- Balodabazar, Distt. - Balodabazar Bhatapara (C.G.)**.

Detail of Authorisation

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity (Tonnes/Annum)
1.	Scrap PTA, PTA contaminated liners, Oily rags, process sludge and ETP sludge	co-processing	8000 MT/Year
2.	Waste Mix (ETP sludge pesticide residue, off specification pesticides)	-----do-----	19000 MT/Year
3.	As Characterized by CPCB, Waste mix (process organic residue & distillation bottom residue, spent carbon, ETP sludge, FE salt/mixed salt, insulation waste, thermocoal waste & used PPE) from Dr. Reddy's Laboratories Ltd., Srikakulam	-----do-----	10301 MT/Year
4.	ETP Sludge (BASF India Ltd, Mangalore)/Similar industries/ Sectors	-----do-----	10 T/Day
5.	Toluene Di Isocyanate Tar and TDI Tar (M/s Narmada Chematur Petrochemicals Ltd., Bharuch) Aniline Plant/TDI Plant/Similar industries/ Sectors,	-----do-----	20 T/Day
6.	Paint Sludge (Automobile Sector),	-----do-----	30 T/Day
7.	Refinery Sludge (M/s Chennai Petrochemicals Company Ltd, Chennai)/Similar industries/Sectors	-----do-----	30 T/Day
8.	Phosphate Sludge (Ford India Ltd, Chennai) (Automobile Sector)/Similar industries/Sectors	-----do-----	11 T/Day
9.	N Butanol Salt (M/s Jubilant Organosys Ltd, Mysore) (Pharmaceutical industry)/ Similar industries/Sectors	-----do-----	12 T/Day
10.	Spent Carbon (Hindustan Coca Cola Beverages Pvt Ltd, Bangalore)/Similar industries/ Sectors	-----do-----	23 T/Day
11.	ETP Bio Solid (Hindustan Coca Cola Beverages Pvt Ltd, Bangalore)/Similar industries/Sectors	-----do-----	25 T/Day
12.	WTP Sludge (Hindustan Coca Cola Beverages Pvt Ltd, Bangalore)/Similar industries/Sectors	-----do-----	22 T/Day
13.	Solar Evaporation Pond Sludge Salt (M/s Jubilant Organosys Ltd, Mysore)/Similar industries/Sectors	-----do-----	12 T/Day
14.	Oily Rags (Ford India Ltd, Chennai)(Automobile Sector)/Similar industries/Sectors.	-----do-----	3 T/Day

15.	Grinding dust (SKF India Ltd., Bangalore) Automobile Bearings/Similar industries/ Sectors	-----do-----	9 T/Day
16.	Liquid Organic Solvent (Pharma industry)/Similar industries/ Sectors	-----do-----	15 T/Day
17.	Solid Organic Solvent (Pharmaceutical industry)/Similar industries/Sectors	-----do-----	15 T/Day
18.	ETP Sludge (Automobile Industry)/Similar industries/ Sectors	-----do-----	20 T/Day
19.	Spent Catalyst (IOCL, Barauni) Oil Refinery/Similar industries/ Sectors	-----do-----	33 T/Day
20.	Organic Residue (Reprocessing of used oil)/Similar industries/ Sectors	-----do-----	13 T/Day
21.	Spent clay (Reprocessing of used oil)/Similar industries/ Sectors	-----do-----	13 T/Day
22.	Acid Tar Sludge (M/s Bhilai Steel Plant, Durg)/Similar industries/Sectors	-----do-----	25 T/Day
23.	ETP Sludge (KEC International Ltd) infrastructure Engineering, Procurement and Construction (EPC)/Similar industries/Sectors	-----do-----	25 T/Day
24.	Contaminated plastic waste (Board and Paper industries, Vapi, Gujarat)/Similar industries/Sectors	-----do-----	10 T/Day
25.	Liquid Organic Spent Solvent (Pharma Industries)	-----do-----	10 T/Day
26.	Incineration Ash (Tata Motors, Jamshedpur) Automobile sector/Similar industries/ Sectors	-----do-----	5 T/Day
27.	Waste/residue containing oil (National Engineering Industry) Bearings manufacturing/Similar industries/ Sectors	-----do-----	1.68 T/Day
28.	Process waste/residue (M/s Cheminova India Ltd.) Pesticide industry/Similar industries/ Sectors	-----do-----	15 T/Day
29.	Dismantled Lube/Fuel oil filter (M/s Diesel Loco Shed, Itarsi)/Similar industries/ Sectors	-----do-----	19 T/Day
30.	Mixed waste (distillation residue, residue and waste, spent catalyst and spent carbon and date expired medicine and off specification drugs) pharma Industry/Similar industries/ Sectors	-----do-----	25 T/Day
31.	Process/distillation residue and wastes pharma industries/ Similar industries/Sectors	-----do-----	20 T/Day
32.	ETP Sludge and other Process sludge (M/s Lanxes India Pvt Ltd.) Ion exchange resin chemicals manufacturing/Similar industries/ Sectors	-----do-----	20 T/Day

33.	Grinding muck (M/s Bosch Ltd) Mechanical and electronic diesel control pumps manufacturing/ Similar industries/Sectors	-----do-----	20 T/Day
34.	Plastic waste (hazardous waste) N R Agarwal Industries Ltd paper manufacturing from waste paper/ Similar industries/Sectors	-----do-----	15 T/Day
35.	Distillation residue (both liquid and solid) and spent carbon (pharma industry)/ Similar industries/Sectors	-----do-----	20 T/Day
36.	ETP sludge of M/s Tata Steel Ltd, Tube Div, Jamshedpur and M/s Indian Steel and Wire Products Ltd, Jharkhand Steel and Wire Products/ Similar industries/Sectors	-----do-----	20 T/Day
37.	Spent pot lining from M/s BALCO, Korba Aluminium Smelter Plant/Similar industries/Sectors	-----do-----	12 T/Day
38.	Chemical ETP Sludge from M/s Merck Ltd., Goa pharma company/Similar industries/ Sectors	-----do-----	25 T/Day
39.	Boiler carbon from M/s Syngenta India Ltd. Goa Pesticide/Agro chemical industrie/Similar industries/Sectors	-----do-----	15 T/Day
40.	Off specification products and ETP sludge from M/s Lupin Ltd, Goa Pharma Company/Similar industries/Sectors	-----do-----	15 T/Day
41.	Date expired medicines and off specification drugs Torrent Pharma Ltd, kadi, Gujarat/Similar industries/Sectors	-----do-----	15 T/Day

- (1) The authorization shall be valid for the period of **Five Years** i.e. from **14/08/2019 to 13/08/2024**.
(2) The authorization is subject to the following conditions:

TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The person authorized shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".

7. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
8. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
9. Industry shall prepare emergency response plan (ERP) and ensure implementation the same at the event of any accident occurs due to handling and transporting of hazardous waste as per CPCB guideline.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per standard operating procedures/guidelines issued by CPCB from time to time.
11. An application for the renewal of an authorisation shall be made three months before the expiry of authorization as laid down in the Rules.
12. Annual return in form IV shall be filed by June 30th for the period ending 31st March of the last financial year.
13. The wastes shall be collected and stored properly with adequate safety measures as per rule.
14. Authorized person shall comply with the provisions of rule 17, 18 and 19 for packing, labeling and transport of Hazardous Waste.
15. The authorized person should maintain the record of Hazardous Waste as per Form-3 of Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
16. The occupier shall follow the guidelines (if any) issued by Central Pollution Control Board or MoEF & CC for management of Hazardous waste from time to time.
17. The industry shall display data outside factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
18. Industry shall ensure disposal of hazardous waste generated during the production process through authorized recycler/Co-processing in cement plant/captive disposal facility/arrangement for sharing of authorized disposal facility/common TSDF as per rule. Failing which this authorization shall be treated as cancelled and appropriate action would be initiated against the industry.
19. Industry shall comply all the provision incorporated in the guideline for pre-processing and co-processing of Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 published on 07 July 2017.
20. At a time only one type/category of hazardous waste shall be Co-processed in the cement kiln. A log book of the waste Co-processed shall be maintained including emission monitoring result during Co-processing.
21. Industry shall comply the stack emission norms prescribed in the notification G.S.R. 497 (E) dated 10 May 2016 issued by MoEF & CC for cement industry.
22. Industry shall give priority for co-processing of hazardous waste generated within the Chhattisgarh State as mentioned in the authorization.
23. Industry shall create new website for Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and upload all the information above the waste in the website.
24. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
25. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.

26. An on-site storage of the hazardous wastes for a maximum period of 90 days should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
27. At least four nos. of peizometric points should be provided around the storage site of H.W. to monitor the leaching of the waste and monitoring report shall be submitted to the board in every six months. Each type of waste shall be stored in a separate storage cell.
28. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
29. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concerned Regional Office and H.O., Atal Nagar, Raipur of the Board by fax/telephone or by E-mail about the incident and details report be sent in form no. 11 [see rule 22].
30. The authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
31. Used batteries shall be disposed of as per the Batteries (Management & Handling) Rules, 2001.
32. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.

Member Secretary

C.G. Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Endt. No. 6719/H.O./HSMD/CECB/2019

Atal Nagar, Raipur, Date 06/11/2019

Copy to :- Regional Officer, Regional office, Chhattisgarh Environment Conservation Board, Raipur (C.G.) please ensure compliance and report, if any condition/conditions are violated by the industry.

Sd/-

Member Secretary

C.G. Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Digitally Signed by: R. P. Tiwari
MS

Date: 2019.11.15 19:31:18 IST

Environment Bhatapara <environment.bhatapara-ind@ambujacement.com>

Environmental Statement Report 2021-2020

Environment Bhatapara <environment.bhatapara-ind@ambujacement.com>

Thu, Sep 30, 2021 at 11:34 AM

To: Regional Officer <rocecbraipur2014@gmail.com>

Cc: Head Office CECB <hocecb@gmail.com>

Dear Sir,

Please find here with Environmental Statement report for the year 2020-2021 for the Cement plant and Rawan and Maldimopar Lime stone Mine for your kind information further record please.

Hope you will find the same in order please.

Regards

*Subhash Awasthi,
Head Environment,
Ambuja Cement Ltd (Bhatapara Unit),
Rawan Village, Baloda Bazar Dist.,
Chhattisgarh-493331,
Office: 8982073666.*

3 attachments

 ACL BHATAPARA _ENVIRONMENTAL STATATMENT RAWAN LIMESTONE MINE_12.pdf
2766K

 ACL BHATAPARA _ENVIRONMENTAL STATATMENT MALDIMOPAR LIMESTONE MI.pdf
5432K

 ACL BHATAPARA _ENVIRONMENTAL STATEMENT CEMENT PLANT_127_2021.pdf
7779K

Ambuja Cement Ambuja Cements Limited (Unit: BHATAPARA-I) Address : P. O. Dewan, Tehsil Waloda Garar Dist Raipur BHATAPARA, PIN 493330 PAN No : AARTC0569E GSTN No. : 22AARCT0569E1ZM TFC Code : 12488803537 Cont. Person: Tel. No. : Fax No. : E-Mail :		Vendor Code : 9120C1410 XUZHOU ZHONGYI HYDRO INTERNATIONAL ENGINEERING CO. LTD. NO 9 JINGGUAN RD XUZEBO ZHONGYI AND TECHNOLOGICAL DEVELOPMENT ZONE, XUZHOU, CHINA 241000, CHINA GSTN No: PAN No : HA-1010478 Tel No : 8613775974434 FAX No : E-Mail : xuechunhui@126.com Contact: ZHANG QIANG		Purchase Order PO No/Trans: 2800896895/M320 PO Date : 11.05.2023 PO Type : CMT/ADJUT Issuing Authority : HQ Imports & Export Vendor's Ref/Ord No : Created by: Vishwanath Jorhull Please Quote the GSTN Number, PO No., Line Item No., Name of the Works / Unit and the Contact Person in all correspondences (including the Delivery Challan/Invoice)				
With reference to your quotation and subsequent negotiations, we are pleased to place this Purchase Order on you for the supply of following items/services SUBJECT TO Terms and conditions stated below and printed overleaf/attached with this purchase order:								
PO Item No / PR No /Dept	Item Code	Description & Specification	Delivery Date	QTY	UOM	Price in USD	Total Discount	Amount in USD
60301/ 1300562795/ MECHANICAL		Supply of CPP Coal Shed CPP Imported Structural material for Coal shed (Weight: 1700.19 MT with shears & accessories) Size of shed : Clear inside width 95 Mtr and total length 315 Mtr (C/C) Gross Price in USD 2,411,630.00 Total in USD 2,411,600.00	31.01.2023	1.000	LOT	2,411,600.00 PER 1 LOT	USD 0.00	2,411,600.00
Total in USD							Twenty Four Lakh Eleven Thousand Six Hundred Only	2,411,600.00
Header Information : This PO is made with reference to the best and final price submitted by M/s KSN Ventures against rfq_60574 & rfq_60574.1 for the job of "Design, enagg, mfg supply of CPP Coal Shed (1 no.), Line stone Shed lined (2 no.) & Line 2 (1 no.)" at APL Bhatarpara. The scope of work remains as shared during the RFQ stage. Important Note: Dispatch Information/Transportation: EXW Please share import related communication strictly to following email ids (MAHDA700BY) Mr. Anil Helia (Mobile No: +91- 7758301249) or Mr. Shailesh Gharat (Mobile No : +91-7739305198) E-mail ids: bsc-poscheduling@iafargeholcim.com/anil.helia@holcim.com/ shailesh.gharat@holcim.com								

Purchase ordered Copy of Coal Shed for TPP

Amnaja Cement Amnaja Cements Limited Address : P. O. Baram, P.O. Baram, Baram Dist. Baram Pin Code : 781001 PAN No. : AAACD5604 GSTIN No. : 22AAACD5604P1H ITC Code : 123456789 Cont. Person: Tel. No. : Fax No. : E-mail :		Vendor Code : 51200410 PURCHASE ORDER NO. : INTERNATIONAL ENGINEERING CO. LTD., NO. 3, JINGJIAN AN ROAD, ECONOMIC AND TECHNICAL DEVELOPMENT ZONE, XINXUO, DIST. CHANGSHU, JIANGSU CHINA GSTIN No. : PAN No. : 31-7100000 Tel No : 061778576423 Fax No : E-mail : amajac@amajac.com Contact: RASHI SHARMA		Purchase Order App PO No./Name : 2000000000/PO01 PO Date : 11.06.2022 PO Type : OFFICIAL Issuing Authority : PO Import & Logistic Vendor's Ref/Con No : Created by: Vashanbir Taneja Please Quote the PO# Number, PO No., Line Item ID Name of the Works / Unit and the Contact Person in all Correspondence (including the Delivery Challan/Invoice)				
With reference to your quotation and subsequent negotiations, we are pleased to place this Purchase Order on you for the supply of following items/services subject to terms and conditions stated below and printed overleaf/attached with this purchase order								
PO Item No / SR No / Desc	Line Code	Description & Quantification	Delivery Date	Qty	Unit	Price in USD	Total (Amount)	Amount in USD
02001 1200567104/ NECEASICAL		Supply of Lime Stone shed line 2 Imported Structural material for lime stone shed (Weight: 1290.3 MT with sheds & accessories) Size of shed : Clear inside width 59.5 Mtr and total length 95 Mtr (G.C) a. Gross Price in USD : 1,830,200.00 Total in USD : 1,830,200.00	31.01.2023	1.000	LOT	1,830,200.00 PER 1 LOT 0.00	USD 0.00	1,830,200.00
Total in USD Eighteen Lakh Thirty Thousand Two Hundred Only							1,830,200.00	
Header Information : This PO is made with reference to the best and final price submitted by the Bidders against Bidding No. 1 for the job of "Baram, P.O. Baram supply of CIP Shed 1 (G.C), Lime Stone Shed Line 1 (G.C) & Line 2 (G.C)" a. ACT BARAMBOLA. The scope of work remains as shared during the Bidding phase. Important Notice Supplier's Indemnification/Transportation: Bidders Please share Import related communication strictly to following email ids (MANDATORILY): Mr. Anil Bhatia (Mobile No. : 91- 9736902242) or Mr. Shalish Bhatia (Mobile No. : 91-7718715198) E-mail : btc-poseduling@intergethelia.com / anil.bhatia@intergethelia.com or teja.chavara@nicim.com ACTUA ENGINEERING, PO BARAMBOLA, TAL : BARAMBOLA, DIST. GUNAWATI, AMBUDHAR-727115, GUJARAT, WWW.AMUNAJACMENT.COM, CIN 12345678910123456789 Pg: 1 of 1								

Purchase order Copy of Limestone Covered Shed1

