

Ambuja Cement

Ref: ACL/BYT/ENV/2020-21/87

Date: 18.05.2020

To,

The Additional Principal Chief Conservator of Forests,
Ministry of Environment, Forest & Climate Change,
Regional Office (West Central Zone), Ground Floor, East Wing,
"New Secretary Building" Civil Lines, Nagpur-440001.

Sub: Submission of Six monthly EC Compliance report along with Environmental Monitoring Reports for the period **October-2019 to March-2020** 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 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 Jan'2016.

Dear Sir,

Please find the enclosed herewith six monthly Environment Clearance Compliance report along with Monthly Environmental Monitoring Report (**October-2019 to March-2020**) for Cement Plant Complex of M/s Ambuja Cements Ltd. (Unit-Bhatapara), Rawan Village, Balodabazar Tehsil and Distt. Chhattisgarh.

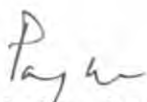
This is for your kind information and record.

Thanking you.

Yours Sincerely,

For Ambuja Cements Limited

(Unit: Bhatapara)



Pankaj Lochan

Manufacturing Cluster Head (East)

Encl.: Six Monthly Environmental Clearances Compliance 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, Naya Raipur(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)

Vill & PO. : Rawan, Dist.: Baloda Bazar- Bhatapara, - 493 331 (C.G.), Ph.: 07727-220010 to 15, Fax: 220004
(Regd. Office: PO: Ambuja Nagar, Taluka: Kodinar, District: Junagarh, Gujarat, 362715)

ENVIRONMENT CLEARANCE COMPLIANCE REPORT

FOR

(October-2019 to March-2020)

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 Jan, 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
A. Specific Conditions		
i.	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.	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 10th May, 2016. Regular lime injection at boiler to reduce SO₂ emissions and Low NO_x burner has been installed for reduce the NO_x emission as per the new Notification dated 10th May, 2016. 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. Interlocking system is provided in pollution control equipments. CEMS data of CPP can be seen on ULR- http://cpcbtrdms.nic.in/industry-login and CEMS data of CPP can be seen on ULR -http://cpcbtrdms.nic.in/industry-login Photographs of Pollution control equipment's are shown in Annexure I. Cement plant stacks monitoring report enclosed as Annexure II
ii.	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.	Complied 4 CAAQMS (Real Time Sampling & Analyses) has been installed with consultation of CECB and result can seen on ULR-http://www.envsaindia.com/cpcb/industry.php. Manual ambient air quality monitoring as per CPCB had monitored core and buffer zone. CEMS has been installed in all the stacks and its connectivity given to CPCB and CECB. Manual AAQM & Noise monitoring reports enclosed as Annexure III.

Sr. No.	EC Conditions	Compliance Status
iii.	The company shall install adequate dust collection and extraction system 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 stockpile. 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.	Complied Adequate dust collection and extraction system are installed at various transfer points to control fugitive dust. Glass bag house in raw mill and ESP in kiln cooler and cement mill and bag filter at all the transfer points are installed. Coal and clinker storage are in the form of stockpile under cover shed. The dust collected from the pollution control equipment is recycled into the process. Storage of raw material is in closed roof sheds. Regular water sprinkling is being done in the raw material stock yard and loading area. Fugitive monitoring report enclose as Annexure-IV
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 .	Complied. CREP guidelines are being followed. Cement Plant and Captive Power Plant are 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. CEMS data of Cement plant line-I&II can be seen on ULR- http://cpcbtrdms.nic.in/industry-login and CEMS data of CPP can be seen on ULR -http://cpcbtrdms.nic.in/industry-login Photographs of control equipment's are shown in Annexure I. Cement and CPP manual stacks Monitoring results for the period of Oct. 2019 to March-2020 are given in Annexure II
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.	Complied. We have adapted Zero discharge, No effluent is discharged from the process outside the plant premises. No effluent generated from cement plant, Treated effluent from CPP and Waste water treated in STP which further used for Other plant activities

Sr. No.	EC Conditions	Compliance Status
		& green belt development. Treated effluent from TPP is used for dust suppression and recycled in the TPP process.
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.	Complied. Roof tops rain water and storm water drains to recharge the ground water, rain water that gets collected in the mined out pit is used for various activities after proper settling. Rain water harvesting has been constructed in colony and in nearby villages.
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.	Complied. We have developed more than 33% dense green belt within the plant premises. Photographs of Plantation & Certificate shown in Annexure V .
viii.	Solid waste generated in the form of fly ash and slag shall be 100% recycled in the process itself.	Complied. Fly ash generated from TPP is 100% utilized in cement manufacturing. Whereas slag from other industries are also being used for making slag cement.
ix.	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied. Community welfare activities are being conducted in the nearby villages through Ambuja Cement Foundation (ACF).
B. General Conditions		
i.	The project authority must adhere to the stipulations made by Chhattisgarh Environment Conservation Board (CECB) and State Government.	Noted and Complied
ii.	No further expansion or modification of the plant should be carried out without prior approval of this ministry.	Noted. No further expansion or modification will be done without prior approval of ministry.
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	Complied Complied 4 CAAQMS (Real Time Sampling & Analyses) has been installed with consultation of CECB and result can be seen on ULR- http://www.envsaindia.com/cpcb/industry.php . Manual ambient air quality monitoring as per CPCB had monitored core and buffer zone.

Sr. No.	EC Conditions	Compliance Status
	months.	CEMS has been installed in all the stacks and its connectivity given to CPCB and CECB. Manual AAQM & Noise monitoring reports enclosed as Annexure III. CEMS data of Cement plant Line I&II can be seen on ULR- http://cpcbtrdms.nic.in/industry-login and CEMS data of CPP can be seen on ULR -http://cpcbtrdms.nic.in/industry-login Six months monitoring submitted along with EC Compliance to CECB and CPCB regional office.
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 properly collected, treated as per the standards prescribed. The treated waste water from the treatment plant is used for the purpose of dust suppression and also recycled in TPP process. Monitoring results for the period Oct.2019 to March.2020 enclosed as Annexure III.
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 applied at various noise generating sources. The ambient noise level monitoring carried out in core and buffer zone, report is enclosed as Annexure III
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 performed. Occupational health program is in place, as a part of that pre medical and periodic medical check-up of employee is being performed, which includes lung function test and sputum analysis tests once in six months. Records are maintained at Health Department.

Sr. No.	EC Conditions	Compliance Status
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.
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 MOEFCC & NABL accredited laboratories. Head of Environment is directly reporting to plant head.
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. Fund is enclosed as Annexure-VI
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. 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-VII
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.
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	Complied.

Sr. No.	EC Conditions	Compliance Status
	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.	
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: 13th 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.	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 10th May, 2016. Regular lime injection at boiler to reduce SO₂ emissions and Low NO_x burner has been installed for reduce the NO_x emission as per the new Notification dated 10th May,2016. 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. Interlocking system is provided in pollution control equipments. CEMS data of CPP can be seen on ULR- http://cpcbtrdms.nic.in/industry-login and Id- environment.tppbhatapara-ind@ambujacement.com CEMS data of CPP can be seen on ULR -http://cpcbtrdms.nic.in/industry-login Id- environment.bhatapara-ind@ambujacement.com (Photographs of pollution control equipment's are shown in Annexure I. Cement and CPP manual stacks Monitoring results for the period of Oct.2019 to March.2020 are given in Annexure II
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	Complied 4 nos. real time CAAQMS has been installed with consultation of CECB and result can seen on ULR- http://www.envsaindia.com/cpcb/industry.php#. Regular ambient air quality monitoring in core and buffer zone at ten locations is being done. Continuous stack monitoring system has been

Sr. No.	EC Conditions	Compliance Status
	air quality monitoring station shall be installed in downwind direction.	installed. Manual AAQM report enclosed as Annexure III.
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/Nm³ from all the sources except CPP where 100 mg/Nm³ 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.	Complied Adequate dust collection and extraction system are installed at various transfer points to control fugitive dust. Glass bag house in raw mill and kiln, ESP in cooler and cement mill and bag filter at all the transfer points are installed. Coal and clinker storage are in the form of stockpile under cover shed. The dust collected from the pollution control equipment is recycled into the process. Storage of raw material is in closed roof sheds. Regular water sprinkling is being done in the raw material stock yard and loading area. Fugitive monitoring report enclose as Annexure-IV 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. Interlocking system is provided in pollution control equipments. Stacks Emission as per the new Notification dated 10th May, 2016 for Cement and 7th December 2015 for CPP. CEMS data of CPP can be seen on ULR- http://cpcbtdms.nic.in/industry-login and Id- environment.tppbhatapara-ind@ambujacement.com CEMS data of CPP can be seen on ULR -http://cpcbtdms.nic.in/industry-login Id- environment.bhatapara-ind@ambujacement.com (Photographs of pollution control equipment's are shown in Annexure I. Cement and CPP manual stacks Monitoring results for the period of October 2019 to April 2020 are given in Annexure II.
iv.	Asphalting/concreting of roads and water spray all around the coal stockpiles shall be carried out to control fugitive emissions.	Complied. For controlling fugitive emission all roads are concreted inside the plant premises and regular water sprinkling is being done around the raw material storage facilities.

Sr. No.	EC Conditions	Compliance Status
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.	Complied. Monitoring report is enclosed Annexure-IV
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 Total water requirement is being met from our mines pit only. Zero effluent discharge condition is maintained. Domestic waste water after treatment in STP is used for green belt development .
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 is being met from artificial reservoir made in mine pit only.
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. Roof tops rain water and storm water drains to recharge the ground water, rain water that gets collected in the mined out pit is used for various activities after proper settling. Rain water harvesting has been started in colony and in nearby villages.
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% dense green belt within the plant premises. Photographs of Plantation & Certificate shown in Annexure V .
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	Complied. All the dust collected from pollution control equipments is reused in processes. Fly ash generated from the CPP power plant is handled pneumatically and 100% used in making PPC grade cement. Sludge from the sewage treatment plant is used as manure. Hazardous waste (Used Oil, Waste Oil etc.) and batteries are sold to authorize recycler only.

Sr. No.	EC Conditions	Compliance Status
	oil from gear boxes and automatic batteries etc. shall be properly stored in a designated area and sold to authorized recyclers / re-processors.	
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.
xii.	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied. Ambuja Cement Foundation is engaged in Socio economic welfare activities like Skill development programs, water management, health & sanitation, rural infrastructure development to name a few.
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.	Noted
ii.	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Noted and Agreed No further expansion or modification will be done without prior approval of ministry.
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 4 nos. real time CAAQMS has been installed with consultation of CECB and result can be seen on ULR- http://www.envsaindia.com/cpcb/industry.php# . Regular ambient air quality monitoring core and buffer zone at ten locations is being done. Continuous stack monitoring system has been installed. Manual AAQM report enclosed as Annexure III .
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	Complied. Industrial waste water properly collected, treated as per the standards prescribed. The treated waste water from the treatment plant is used for the purpose of dust suppression and also recycled in TPP process.

Sr. No.	EC Conditions	Compliance Status
	plantation purpose.	Monitoring results for the period Oct.2019 to March 2020 is enclosed as Annexure III.
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 are applied at various noise generating sources. The ambient noise level monitoring report is enclosed as Annexure-III.
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.	Complied. Environmental protection measures, suggested in the EIA/EMP report are duly implemented in the plant. Whereas various socio economic development program is being implemented in surrounding community through Ambuja Cement Foundation. Detail of various socio economic work done during Oct.2019 to March 2020 attached as Annexure – VIII.
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 is enclosed as Annexure-VI.
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. 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-VII.
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	Complied. Copy of inform to the public is enclosed as Annexure-IX.

Sr. No.	EC Conditions	Compliance Status
	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.	
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.	• Complied. • Environmental Clearance date:13.04.2007 • Annual financial closures is on 31st December
3.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
4.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Agreed.
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
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.	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 10th May, 2016. Regular lime injection at boiler to reduce SO₂ emissions and Low NO_x burner has been installed for reduce the NO_x emission as per the new Notification dated 10th May, 2016 in the cement plant. 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. Interlocking system is provided in pollution control equipments. CEMS data of CPP can be seen on ULR- http://cpcbtrdms.nic.in/industry-login and Id- environment.tppbhatapara-ind@ambujacement.com CEMS data of CPP can be seen on ULR- http://cpcbtrdms.nic.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 Oct.2019 to March 2020 are given in Annexure II
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.	Complied. Monitoring report is enclosed Annexure-IV
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	Complied. Material transport is being carried out in tarpaulin covered trucks. 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

Sr. No.	EC Conditions	Compliance Status
	overloaded. Vehicular emissions shall be regularly monitored.	efficacy of air pollution control measures adopted in the plant. Fly ash is transported in closed bulkers.
iv.	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.	Complied 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. ESP is installed at AFBC boiler whereas Glass bag is installed at Raw Mill & Kiln exit to control air emission below 50 mg/nm³ at CPP and 30 mg/Nm³ at Cement plant. Bag filters are 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 equipments is recycled back in to the process. Raw material storage areas are provided with closed roof shed. CEMS data of CPP can be seen on ULR- http://cpcbtdms.nic.in/industry-login and Id- environment.tppbhatapara-ind@ambujacement.com CEMS data of CPP can be seen on ULR -http://cpcbtdms.nic.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 Oct.2019 to March2020 enclosed as Annexure II
v.	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	Complied. For controlling fugitive emission the roads are black topped/concreted inside the plant premises and regular water sprinkling is being done around the raw material storage facilities.

Sr. No.	EC Conditions	Compliance Status
	ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	
vi.	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.	Complied 4 nos. real time CAAQMS has been installed with consultation of CECB and result can seen on ULR- http://www.envsaindia.com/cpcb/industry.php. Regular ambient air quality monitoring at six locations is being done. Continuous stack monitoring system has been installed. Manual AAQM and Noise level monitoring report enclosed as Annexure III.
vii.	As proposed, total water requirement for cement plant (50m ³ /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.	Complied Water requirement of the plant is being met from mines pit water. No effluent is discharged outside the plant premises. Sewage is treated in STP (25X2 KL) treated effluent is used for green belt development and dust suppression.
viii.	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.	Complied No effluent is discharged from the process outside the premises. Treated effluent from 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. Domestic waste from the colony is used for composting and the compost thus prepared is used for green belt development.

Sr. No.	EC Conditions	Compliance Status
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 in to 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.	Complied All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices is being recycled and reused in the process and used for cement manufacturing. All the solid waste generated from colony and STP are disposed after segregating the waste into biodegradable and non-degradable. Treated STP sludge is used as manure for green belt development. The waste oil and scrapped automobile batteries etc. are sold to authorized recyclers / re-processors only.
x.	An effort shall be made to use high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.	Complied. High calorific hazardous waste is being Preprocess and co process in kiln. CECB Atal Nagar has been grant the permission for utilization of HW. Authorization vide letter No. 6718/HSMD/HO/CECB/2019 Raipur, Date 06/11/2019.
xi.	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	Being complied. Low grade lime, Fly ash and other solid waste is being used as alternative raw material and fuel for manufacturing cement.
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).	Complied. 100% fly generated from our power plant utilized in production of PPC grade cement.
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.	Complied. We have developed more than 33% dense green belt within the plant premises. Photographs of Plantation & Certificate shown in Annexure V.
xiv.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement Plants shall	Complied.

Sr. No.	EC Conditions	Compliance Status
	be implemented.	
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.	Complied.
B. General Conditions		
i.	The project authority must adhere to the stipulations made by Chhattisgarh Environment Conservation Board (CECB) and State Government.	Complied
ii.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Noted and Agreed No further expansion or modification will be done without prior approval of ministry.
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 for reduce the NO _x emission as per the new Notification dated 10 th May,2016. CEMS (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 CPP can be seen on ULR- http://cpcbtrdms.nic.in/industry-login and Id- environment.tppbhatapara-ind@ambujacement.com CEMS data of CPP can be seen on ULR - http://cpcbtrdms.nic.in/industry-login Id- environment.bhatapara-ind@ambujacement.com (Photographs of control equipment's are shown in Annexure I.

Sr. No.	EC Conditions	Compliance Status
		Cement and CPP manual stacks Monitoring results for the period of October 2019 to March 2020 are given in Annexure II
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 properly collected, treated as per the standards prescribed. The treated waste water from the treatment plant is used for the purpose of dust suppression and also recycled in TPP process. Monitoring results for the period October 2019 to March 2020 is enclosed as Annexure III .
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. Roof tops rain water and storm water drains to recharge the ground water, rain water that gets collected in the mined out pit is used for various activities after proper settling. Rain water harvesting has been started in colony and in nearby villages.
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 applied at various noise generating sources. The ambient noise level monitoring report is enclosed as Annexure III
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 performed. Occupational health program is in place, as a part of that pre medical and periodic medical check-up of employee is being perform , which includes lung function test. Records are maintained at Health department.
viii.	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied. Eco-development measures and community welfare measures are being implemented through Ambuja Cement Foundation.

Sr. No.	EC Conditions	Compliance Status
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 EIA/EMP report are duly implemented in the plant.
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 Senior Executive.	Environmental Management Cell along with full-fledged laboratory facilities has been established under supervision of Environmental Head. Head of Environment is directly reporting to Head of plant
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 Forest's 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. 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 contain pollution within permissible limits, details is enclosed as Annexure-VI .
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. 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-VII .
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.	Complied. Environmental clearance granted on 23rd 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	Complied. The advertisement of grant of environmental clearance was published in local widely circulated newspapers.

Sr. No.	EC Conditions	Compliance Status
	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.	Copy of inform to the public is enclosed As Annexure-IX .
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: 15th 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.	Noted and complied. Compliance report of the same is attached herewith.
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.	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 for reduce the NO _x emission as per the new Notification dated 10 th May, 2016. CEMS (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 CPP can be seen on ULR- http://cpcbtdms.nic.in/industry-login and Id- environment.tppbhatapara-ind@ambujacement.com CEMS data of CPP can be seen on ULR - http://cpcbtdms.nic.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 April to Sept.2019 are given in Annexure II
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	Complied 4 nos. real time CAAQMS has been installed with consultation of CECB and result can seen on ULR- http://www.envsaindia.com/cpcb/industry.php# . Regular ambient air quality monitoring at ten locations is being done. Continuous stack monitoring system has

Sr. No.	EC Conditions	Compliance Status
	concentrations are anticipated.	been installed. Manual AAQM and Noise level report enclosed as Annexure III .
iv.	Data on ambient air quality stack emission and fugitive emissions shall be uploaded on the company's website and also regularly submitted on line to 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.	Complied. 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/ Data on SPM, SO ₂ and NO _x is also displayed at main gate of the plant premises.
v.	The Company shall submit water conservation and management plan to meet out 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 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.	Complied Rainwater accumulated in Rawan Mines pit is being used for plant operation. 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.
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.	Complied. We have developed more than 33% dense green belt within the plant premises. Photographs of Plantation & Certificate shown in Annexure V .
vii.	The project authorities shall transport the raw materials and cement in covered means to avoid fugitive emission during transport.	Complied. Raw material and cement are transported in fully covered/closed manner.
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.	Noted and Agreed.
ix.	All the recommendations mentioned in the CREP guidelines for the cement plants shall be followed and complied.	Complied.
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	Complied.

Sr. No.	EC Conditions	Compliance Status
	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.	
B. General Conditions		
i.	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.	Noted
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. No further expansion or modification will be done without prior approval of ministry.
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 implemented.
v.	The gaseous emissions (SO ₂ , 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.	Complied. CEMS (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. Monitoring results for the period of Oct.19 to March'2020 are given in Annexure II Regular lime injection at boiler to reduce SO ₂ emissions and Low NO _x burner has been installed for reduce the NO _x emission as per the new Notification dated 10 th May,2016. CEMS (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.

Sr. No.	EC Conditions	Compliance Status
		CEMS data of CPP can be seen on ULR- http://cpcbtrdms.nic.in/industry-login and Id- environment.tppbhatapara-ind@ambujacement.com CEMS data of CPP can be seen on ULR -http://cpcbtrdms.nic.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 Oct.19 to March'2020 are given in Annexure II
vi.	The company shall undertake following Waste Minimization measures. • 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's. • Dust collected in pollution control equipment's shall be reused.	Complied. Fly ash generated from captive power plant is fully utilized for making PPC grade cement. Fly ash generated from the power plant is handled by closed pneumatic system. All venting and transfer points are connected with bag filters for arresting the dust. Dust collected in pollution control equipments is reused in the process.
vii.	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.	Complied. Monitoring report is enclosed Annexure-IV
viii	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, 1986Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied. Noise control measures are applied at various noise generating sources. The ambient noise level monitoring report is enclosed as Annexure III
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. Rooftop rainwater harvesting system is implemented in the plant and colony.
x.	Occupational health and safety measures shall be	Complied.

Sr. No.	EC Conditions	Compliance Status
	undertaken. Periodic monitorial 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.	Occupational health surveillance program for the workers are undertaken regularly. Pre-employment medical checkup and periodic medical check-up of workers is performing. Records are maintained at Health department. Company has engaged trained doctor 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. Eco-development measures and community welfare measures are being implemented through Ambuja Cement Foundation.
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 Environmental Management Cell has been established under supervision of Environmental Head with laboratory facilities. Environmental monitoring is being carried out through MOEFCC & NABL accredited laboratories. Head of Environment is directly reporting to plant head.
xiii.	The project authorities shall earmark adequate fund 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.	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 contain pollution within permissible limits, details is enclosed as Annexure-VI .
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 MoEFCC, CPCB & CECB and are uploaded on 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	Complied.

Sr. No.	EC Conditions	Compliance Status
	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.	
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.	• Complied. • Environmental Clearance date:15.05.2009 • Annual Financial Closure is on 31st December
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: 13th May, 2011

This has reference to your 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 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.	Complied. Continuous on-line monitors for the particulate emissions are installed. Interlocking system is provided in pollution control equipments. CEMS (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 CPP can be seen on ULR- http://cpcbtrdms.nic.in/industry-login and Id- environment.tppbhatapara-ind@ambujacement.com CEMS data of CPP can be seen on ULR - http://cpcbtrdms.nic.in/industry-login Id- environment.bhatapara-ind@ambujacement.com

Sr. No.	EC Conditions	Compliance Status
		(Photographs of control equipment's are shown in Annexure I . Cement and CPP manual stacks Monitoring results for the period of Oct.2019 to March 2020 are given in Annexure II
iv.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations if any were received while processing the proposal. The clearance letter shall also put up on the website of the company by the proponent.	Complied. Copy of inform to the public is enclosed As Annexure-IV .
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 MoEFCC by e-mail	Complied Environmental statement is submitted annually to CECB. Compliance of environment clearance condition is regularly submitted to MoEFCC regional office on six monthly basis, same is also uploaded on company's website. Copy of Environment settlement is enclosed as Annexure-X .
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: 25th Jan'2016

This has reference to your 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 13th 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 exiting Line-II (ie. 2.72 MTPA) by process optimization.

Sr. No.	EC Conditions	Compliance Status
	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.	Complied. No additional land was required during expansion. Expansion was done within plant with process optimisation. 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 13 th -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 report to 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 , NOx for Cement Sector.	Complied 4 nos real time CAAQMS has been installed with consultation of CECB and result can seen on ULR- http://www.envsaindia.com/cpcb/industry.php# . Regular ambient air quality monitoring at six locations is being done. Continuous stack monitoring system has been installed. Manual AAQM and Noise level report enclosed as Annexure III.
5.	The Ministry had considered the recommendations of Expert appraisal Committee (Industry) and hereby	Noted and being complied.

Sr. No.	EC Conditions	Compliance Status
	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:	
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
(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 complied.
6.	The project proponent shall comply with all the environmental safeguards stipulated in the environmental clearance letter of even No. dated 13 th April, 2007	Noted and complied. 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

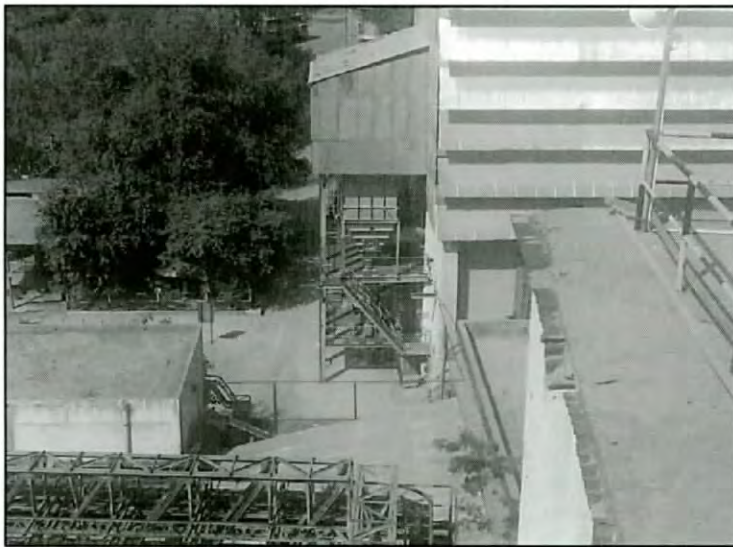
ANNEXURE- I



ESP at TTP 15 MW



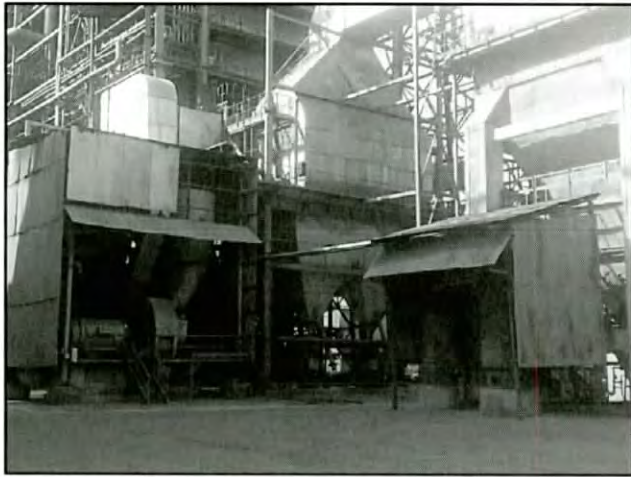
ESP at Cooler



Bag Filter at Crusher Stack



Hybrid Filter at Cement Mill



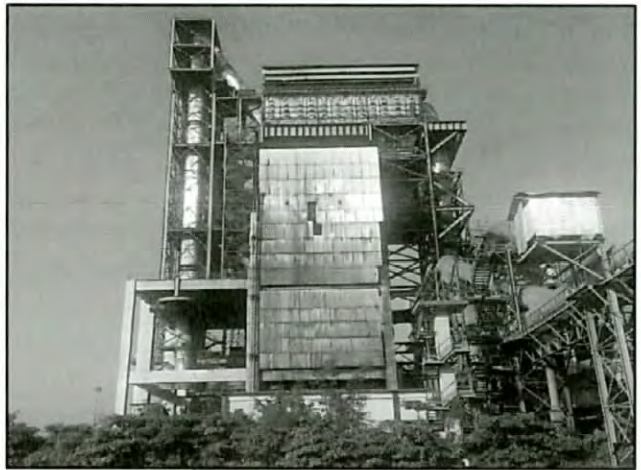
ESP at Old TTP 15 MW



Bag House at Klin Stack



Bag House at Klin Stack



ESP at Cooler

Six Monthly Stacks Monitoring Report of Month October 2019 to March-2020

Month		Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
S.No.	Monitoring Station	CEMS NOx					
1	Kiln Stack (Line- 1)	698.36	543.1	560.8	342	387.0	398.5
2	Kiln Stack (Line-2)	574.33	628.5	684.5	615.6	589.3	519.5
		CEMS SO2					
1	Kiln Stack (Line- 1)	4.71	12.6	12	4.6	5.4	8.3
2	Kiln Stack (Line-2)	5.45	10.2	12.1	5.3	4.5	4.8
		Particulate Matter (mg/Nm3)					
1	Kiln Stack (Line- 1)	20.16	18.4	14.3	14.2	18.4	17.1
2	Kiln Stack (Line-2)	11.12	13.3	11.5	7.8	9.5	10.2
		Particulate Matter (mg/Nm3)					
3	Crusher Stack (Line- 1)	16.41	25.4	22.8	18.45	14.4	15.2
4	Cooler (Line- 1)	17.78	23.3	25.3	3.8	16.4	9.3
5	Coal Mill (Line- 1)	12.23	18.3	16.2	8.3	12.7	11.7
6	Cement Mill – 1	17.34	27.1	27.9	8.7	10.3	12.1
7	Cement Mill – 2	20.18	22.4	24.5	11.3	8.2	11.2
8	Cement Mill- 3	16.22	23.8	24.3	9.4	14.1	12.9
9	Crusher Stack (Line- 2)	18.28	22.7	19.6	18.3	17.1	16.4
10	Coal Mill (Line- 2)	16.43	22.5	26.01	14.34	15.4	17.2
11	Cooler (Line- 2)	17.89	18.74	17.28	15.3	18.45	19.22
		Didn't Run in the month	Didn't Run in the month	Didn't Run in the month	Didn't Run in the month	Didn't Run in the month	Didn't Run in the month
12	Cement VRPM stack						

Standards

1. Particulate Matter- 30 mg/Nm³
2. SO₂- 100 30 mg/Nm³
3. NO_x-800 30 mg/Nm³

Six Monthly Stacks Monitoring Report OF Month October 2019 to March-2020

Month		Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
5.No.	Monitoring Station	CEMS Particulate Matter (mg/Nm3)					
13	DG - 04 MW	19.4	18.7	16.8	18.7	19.2	18.4
14	TPP- 15 MW (Old)	18.22	16.45	19.87	8.9	15.2	18.76
15	TPP- 33 MW	28.67	28.84	26.45	29.24	26.43	21.28
16	TPP- 15 MW (New)	26.78	27.68	28.64	28.82	26.85	28.53
CEMS SO2							
13	DG - 04 MW	16.4	18.7	18.3	20.2	17.8	16.2
14	TPP- 15 MW (Old)	350.45	310.22	356.45	375.2	322	359.45
15	TPP- 33 MW	322.43	310.45	298.31	434.89	374.47	270.76
16	TPP- 15 MW (New)	449.32	370.57	430.49	320.17	298.47	320.38
CEMS NOX							
13	DG - 04 MW	425.19	433.14	411.25	425.9	443	451.05
14	TPP- 15 MW (Old)	120.45	156.34	167.84	62.1	96.0	165.23
15	TPP- 33 MW	77.23	71.24	49.13	53.14	72.78	64.42
16	TPP- 15 MW (New)	122.29	134.23	167.33	177.12	168.84	165.39

Standards

1. Particulate Matter- 50 mg/Nm3
2. SO2- 600 mg/Nm3
3. NOx-300 mg/Nm3

ETP and STP treated water analysis Report October -2019 to March-2020

ETP and STP treated water analysis Report October -2019 to March-2020																
MONTH		October-19					November-19					December-19				
S. No.	Test Parameters	pH	COD (mg/l)	BOD (mg/l)	Oil & Grease (mg/l)	SS (mg/l)	pH	COD (mg/l)	BOD (mg/l)	Oil & Grease (mg/l)	SS (mg/l)	pH	COD (mg/l)	BOD (mg/l)	Oil & Grease (mg/l)	SS (mg/l)
	Location															
1	STP Ambuja Colony (treated)	8.58	108	14	0.2	8	8.24	92	10	0.2	2	8.33	91.2	11	0.2	6
2	STP near Plant (treated)	6.63	32	2	0.2	2	8.1	76	8	0.2	2	7.25	79.3	10	0.2	4
3	STP New CCR (treated)	7.30	96	11.5	0.2	12	8.4	76	10	0.2	2	7.81	87.3	15	0.2	8
4	TPP DM Plant Backwash(treated)	6.63	32	<2	<0.2	<2	6.23	134.9	<2	<0.2	2	6.73	84	<2	<0.2	<2
MONTH		January-20					February-20					March-20				
S. No.	Test Parameters	pH	COD (mg/l)	BOD (mg/l)	Oil & Grease (mg/l)	SS (mg/l)	pH	COD (mg/l)	BOD (mg/l)	Oil & Grease (mg/l)	SS (mg/l)	pH	COD (mg/l)	BOD (mg/l)	Oil & Grease (mg/l)	SS (mg/l)
	Location															
1	STP Ambuja Colony (treated)	8.23	24	3	1	4	7.22	28	3	0.4	4	7.78	32	<3	0.5	<4
2	STP near Plant (treated)	8.23	36	3	1	4	7.18	24	3	0.3	4	8.08	12	6	0.6	24
3	STP New CCR (treated)	8.6	4	3	1	4	7.19	20	3	0.5	4	7.62	16	<3	0.2	<4
4	TPP DM Plant Backwash(treated)	5.64	4	<3	<1	<4	7.12	8	<3	<1	<4	7.24	24	<3	<1	<4

Monthly Ambient Noise Level Report of Month October -2019 to March-2020							
S.No	MONTH Location	October-19		November-2019		December-19	
		Noise Level (dB)		Noise Level (dB)		Noise Level (dB)	
		Day Time Leq.	Night Time Leq.	Day Time Leq.	Night Time Leq.	Day Time Leq.	Night Time Leq.
1	ACL Colony	53.4	44.3	52	42.5	51.9	42.7
2	Near Old CCR Building	56.3	53.6	57.4	53.4	58.1	52.6
3	Near Admin office	56.5	52.3	55.7	50.5	54.8	50.4
4	Main office	53.3	50.9	57.3	52.8	57.4	51.6
5	Maldi Mopar Mines Haulege Road	54.7	46.3	51.5	48.8	52.6	47.6
6	TPP area	61.8	62.5	69.6	65.6	68.6	64.9
7	New CCR Building	63.2	55.8	62.5	60.3	61.7	59.5
8	Security check post Rail Yard	61.2	56.4	60.9	58.8	60.7	57.6
S.No	MONTH Location	January-20		February-20		March-20	
		Noise Level (dB)		Noise Level (dB)		Noise Level (dB)	
		Day Time Leq.	Night Time Leq.	Day Time Leq.	Night Time Leq.	Day Time Leq.	Night Time Leq.
4	Main office	64.5	50.2	66.2	59.9	66.4	57.6
5	Maldi Mopar Mines Haulege Road	52	46.5	52.7	43.6	56.2	41.8
6	TPP area	65.6	63.8	72.4	68.9	70.5	64.2
7	New CCR Building	54.2	45.1	73.6	68.2	72.5	62.1
8	AFR office	56.1	51.6	72.1	64.2	74.1	61
9	Village Risda	36.5	29.1	45.3	35.2	46.7	32.6
10	Village Rawan	38.6	32.4	53.9	39.5	56.7	35.6
11	Village Maldi	35.14	27.6	41.1	32.4	42.5	30.5
12	Village Dhandhani	36.1	30.7	43.2	28.3	46.7	27.8
13	Village Dhabadih	35.67	28.3	41.5	34.2	42.9	31.2

Maldi	80.9	47.5	15.8	24.6	0.29
Chuiha	68.8	36.9	10.5	19.8	0.18
Dhandhani	67.7	33.2	11.6	21.7	0.19

Ambient Air Monitoring Report of month –February-2020					
Monitoring Station	PM ₁₀ (100µg/m ³)	PM _{2.5} (60 µg/m ³)	SO ₂ (80 µg/m ³)	NOx (80 µg/m ³)	CO (mg/m ³)
Water Treatment Plant	60.1-74.4	22.4-29.7	7.9-11.1	14.7-20.5	0.19-0.31
Rawan Mines Office	54.1-60.5	18.5-22.5	10.1-14.6	17-24.6	0.18-0.27
Maldi Mines Office	61.1-69.5	20.3-27.9	7.2-12.7	18.6-24.8	0.21-0.31
Rawan	65.1	20.6	8.3	21.6	0.42
Risda	72.7	22.6	13.5	23.4	0.4
ACL Colony	64.1	19.3	8.4	16.4	0.28
Dhabadih	72.7	24.6	10.8	17.7	0.28
Maldi	67.4	28.6	14.1	26.5	0.39
Chuiha	61.3	20.7	7.03	17.9	0.35
Dhandhani	63.9	27.6	12.4	24.5	0.4

Maldi	54.1	17.6	12	22.1	0.35
Chuiha	68.2	26.5	12	23.4	0.08
Dhandhani	62.4	27.5	12.3	23.4	0.24

Ambient Air Monitoring Report of month –March-2020					
Monitoring Station	PM ₁₀ (100µg/m ³)	PM _{2.5} (60 µg/m ³)	SO ₂ (80 µg/m ³)	NOx (80 µg/m ³)	CO (mg/m ³)
Near Railway Siding	71.1-74.2	24-27.2	8.8-10	16.1-19.8	0.19-0.24
Rawan Mines Office	58.9-64.1	17.8-20.8	11.3-12	18.7-22.1	0.24-0.32
Maldi Mines Office	67.5-70.3	21.7-24.1	8.1-10.1	18.8-20.6	0.24-0.34
Rawan	66.8	22.1	10.4	19.6	0.45
Risda	70.1	24.2	12	21.8	0.44
TPP area	60.4	21.9	8.5	14.5	0.28
Dhabadih	70.1	22.9	10.5	16.3	0.3
Maldi	65.4	25.5	12.8	24.8	0.42
AFR office	60.2	16.7	9	14.5	0.22
Dhandhani	64.5	25.9	11	22.4	0.36

Monthly Ambient Air Monitoring Report (October -2019 to March-2020)

Ambient Air Monitoring Report of month October-2019							Ambient Air Monitoring Report of month -November-2019						
Monitoring Station	PM ₁₀ (100µg/m ³)	PM _{2.5} (60 µg/m ³)	SO ₂ (80 µg/m ³)	NOx (80 µg/m ³)	CO (mg/m ³)		Monitoring Station	PM ₁₀ (100µg/m ³)	PM _{2.5} (60 µg/m ³)	SO ₂ (80 µg/m ³)	NOx (80 µg/m ³)	CO (mg/m ³)	
Water Treatment Plant	63-79.8	33.5-38.7	9.97-12.7	21.7-25.1	0.22-0.32		Water Treatment Plant	77.3-92.4	38.5-52.7	11.3-12.3	23.2-25.8	0.24-0.29	
Rawan Mines Office	64.4-74.5	31.8-40	8.79-11.4	21.2-24.6	0.20-0.25		Rawan Mines Office	69.3-79.6	34.9-46	9.34-11.3	20.8-23.9	0.19-0.26	
Maldi Mines Office	64.5-75.5	31.6-38.8	8.38-11.6	20.6-24.4	0.18-0.24		Maldi Mines Office	68.3-82.9	36-48.4	8.98-12.3	20.4-24.4	0.2-0.28	
Rawan	58.4	26.3	7.97	10.5	0.12		Rawan	64.2	31.5	9.42	10.7	0.18	
Risda	62.4	24.5	8.94	13.8	0.16		Risda	66.2	35.3	8.94	13.9	0.22	
ACL Colony	55.5	20.8	6.52	9.05	0.1		ACL Colony	61.3	30	6.71	11.3	0.14	
Dhabadhi	58.5	20.8	7.8	10.9	0.11		Dhabadhi	69.1	35	11.6	14.3	0.24	
Maldi	55.7	22.1	7.53	10.3	0.12		Maldi	65.3	33.8	9.55	13.6	0.22	
Chuiha	57.3	22.6	7.31	10.6	0.12		Chuiha	60	27.4	7.92	12.5	0.14	
Dhandhani	58.5	21.5	6.77	10.2	0.1		Dhandhani	67.2	35.9	8.36	14.3	0.25	
Ambient Air Monitoring Report of month -December-2019							Ambient Air Monitoring Report of month -January-2020						
Monitoring Station	PM ₁₀ (100µg/m ³)	PM _{2.5} (60 µg/m ³)	SO ₂ (80 µg/m ³)	NOx (80 µg/m ³)	CO (mg/m ³)		Monitoring Station	PM ₁₀ (100µg/m ³)	PM _{2.5} (60 µg/m ³)	SO ₂ (80 µg/m ³)	NOx (80 µg/m ³)	CO (mg/m ³)	
Water Treatment Plant	84.6-96.6	44.6-53.1	12.5-13.6	26.8-28.9	0.26-0.31		Water Treatment Plant	84.1-89.2	38.9-44.1	10.3-14.5	24.4-31.8	0.18-0.28	
Rawan Mines Office	78.6-88.1	34.7-45.9	9.38-10.6	23.7-26.3	0.22-0.29		Rawan Mines Office	80.2-89.7	39.9-45.2	9.9-11.6	19.1-24.3	0.18-0.24	
Maldi Mines Office	74-87.4	40.2-49.5	10.2-13.7	23.5-29.8	0.2-0.28		Maldi Mines Office	70.4-81.9	40.5-45.7	11.6-13.5	22.8-25.6	0.15-0.24	
Rawan	77.2	44.4	12.4	16.9	0.26		Rawan	62.2	23.4	14.8	26.2	0.45	
Risda	65.8	32.5	10.4	20.1	0.24		Risda	54.23	21.4	9.1	23.8	0.32	
ACL Colony	63.4	32.8	7.33	18.5	0.16		ACL Colony	57	24.5	8.04	21.4	0.15	
Dhabadhi	79.3	48.5	14.1	23.4	0.3		Dhabadhi	54.3	29.1	12.03	23.9	0.14	

Six Monthly Fugitive Dust Emission Analysis Report of Month October 2019 - March 2020

	MONTH	Oct-19
Sr. No.	LOCATION	SPM ($\mu\text{g}/\text{m}^3$)
1	Packing Plant Fly Ash Area	1787.2
2	Wagon Loading Area	1513.2
3	Clinker Cooler Line-2	2067.9
4	Cement Silo	781.8
5	Coal Stacker	835.1
6	Crusher Lime Stone Unloading Area	781.7
7	Gypsum Yard	631.3
8	Coal Dome	534.7
9	In between Cement Mill 3 & 1	1418.7
10	In between Cement Mill-2 & VRPM	1258
Norms		2000

	MONTH	Nov-19
Sr. No.	LOCATION	SPM ($\mu\text{g}/\text{m}^3$)
1	Near AFR Office	544.3
2	South Block Haulage Road	1459.9
3	North Block Haulage Road	1080.6
4	Drilling Area	1931.2
5	North Block Field Office	712.6
6	Mine Loading Area	852.0
7	Coal Yard Area	1547.0
8	Coal Yard Area (CPP)	1740.8
9	Fly Ash Unloading Area	1669.3
10	Coal Dome	1159.8
Norms		2000

	MONTH	Dec-19
Sr. No.	LOCATION	SPM ($\mu\text{g}/\text{m}^3$)
1	Packer-5	626.1
2	Silo Area 3	1584.1
3	Silo Area of Plant	1419.1
4	Coal Yard Area	1259.4
5	Cement Mill Area	1732.7
6	WLM-3A	1509.4
7	Packing Plant Road Site	1627.6
8	Clinker Stock Pile Area	1857.5
9	Mine Crusher Area	1209.0
10	Reclaimer of Stacker area	978.4
Norms		2000

	MONTH	Jan-20
Sr. No.	LOCATION	SPM ($\mu\text{g}/\text{m}^3$)
1	Packing Plant near Truck loading area	1660
2	Cement Mill -1	1725
3	TPP 15 MW (Boiler -1)	912
4	Truck Yard	1022
5	Coal Mill Line -1	1459
6	Raw milland Kiln (Line -1)	1788
7	New CCR Packing Area	1021
8	Raw milland Kiln (Line -2)	1644
9	AFR	1303
Norms		2000

	MONTH	Feb-20
Sr. No.	LOCATION	SPM ($\mu\text{g}/\text{m}^3$)
1	Near Line-2 CCR	1214.3
2	Raw Mill Line-2 Near Gear Box	1562.2
3	Raw Mill Line-1 Near Gear Box	1484.1
4	In between Cement Mill 1 & 3 Near Store Room	1768.5
5	Compressor House	1367.2
6	TPP New Bed Ash Silo	1768.7
7	Packer Building 2nd floor	1824.6
8	Packing plant	1587.3
9	TPP -1 near boiler area	1267.1
10	Rawan mines Crusher house 1&2	1741.7
11	near rest shelter mines (south block)	1125.1
12	near rest shelter mines (North block)	1237.9
13	Near maldi mines Crusher house	700.3
14	near workshop Area	748.6
Norms		2000

	MONTH	Mar-20
Sr. No.	LOCATION	SPM ($\mu\text{g}/\text{m}^3$)
1	Packing -5	1302.7
2	Near Packing Building	1234.1
3	TLM (1,2 and 3)	1317.8
4	TLM-5	1625.0
5	TLM (4and 3,4,)	1367.2
6	Near Stacker Line No.1	1456.1
7	Near Reclamation Line -1	1675.4
8	Line -2 Clinker Stack Pile	1426.7
9	Cement Mill -3	1278.9
10	Rawan mines Crusher house 1&2	1801.4
11	near rest shelter mines (south block)	1254.0
12	near rest shelter mines (North block)	1298.3
13	Near maldi mines Crusher house	712.5
14	near workshop Area	798.1
Norms		2000

Certificate

This is to certify that M/s Ambuja Cements Limited was inspected on 14 June 2016. It was found that plantation of trees in its Plant and Mines area as well as along State Roads is as per guidelines issued by Chhattisgarh Environment Conservation Board, Raipur, and Ministry of Environment and Forests. The required area is covered with variety of trees with safety and protection measures well in place. The salient features observed during the course of inspection are as follows.

1. 79.65 Hectares is covered with Green Belt out of 238.97 Hectare area in the plant premises which is more than 33% of Plant Area.
2. 36.2 Hectares is covered with Green Belt in Mines.
3. Over 30,000 saplings of Neem, Shisham, Jamun, Kadam, Karanj etc have been planted along Baloda Bazar – Bhatapara road as also around several villages, notably Bharseli and Kukurdi in the years 2014 and 2015. The survival percentage for the mentioned plantation is over 90%.

Place: *Raipur*

Date: *28-06-2016*

(C. M. Shakeel)

C.M. SHAKEEL
Consultant
Forests & Environment
Raipur (C.G.)

Environment Expenditure

S.No.	Particulars	Cost (in Lacs)
1	Environment Monitoring	18.93
2	CAAQM Annual maintenance Charge	13.16
3	EQM Annual maintenance Charge	1.05
4	DETECTOR ASSY;PN:638-65384-4;EQMS SYSTEM (Material)	1.73
5	AMC FOR GAS ANALYZER	1.53
6	RO Plant Monthly O&M charges	8.85
7	CEMS Annual maintenance Charge	8.87
8	Bag house maintenance charge	69.03
9	ESP maintenance charge	2.5
10	Dust sprinkler Charge	13.13
11	Sweeping Machine Charge (Recurring Cost)	36.49
12	Plantation and its maintenance Cost	21.04
13	HW Authorization for Maldi Mopar	0.9
Total		197.19

Sanjay Kumar YADAVA <sanjay.yadava@ambujacement.com>

Reg. Submission of Six monthly EC Compliance Report along with Environmental Monitoring Reports for the period April to Sept.-2019 for Cement Plant Complex of Ambuja Cements Ltd. (Unit-Bhatapara), Chhattisgarh.

1 message

Sanjay Kumar YADAVA <sanjay.yadava@ambujacement.com>

To: apccfcentral-ngp-mef@gov.in, CPCB RD Bhopal <cpcb.bhopal@gmail.com>, Head Office CECB <hocecb@gmail.com>, Regional Officer <rocecbraipur2014@gmail.com>, ecompliance-cg@gov.in

Cc: Pandurang GIRAME <pandurang.girame@ambujacement.com>, Subbaraidu AYYAGARI <subbaraidu.ayyagari@ambujacement.com>, G V Rama Krishna <gv.ramakrishna@ambujacement.com>

Sat, Nov 16, 2019 at 4:43 PM

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 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 Jan'2016.

Dear Sir/Madam,

Please find the attached herewith the Six Monthly EC Compliance Report and Environmental Monitoring Report (April to Sept-2019) for integrated Cement Plant of Ambuja Cements Ltd. (Unit Bhatapara), Chhattisgarh
This is for your kind information and record please.

Thanks & Regards

Sanjay Yadav

Environment Dept.

Ambuja Cements Ltd.

Unit - Bhatapara,

Dist: Baloda BazaBhatapara, Chhattisgarh

Mobile - 8982073666

sanjay.yadava@ambujacement.com

www.ambujacement.com

Annexure-VII

CSR ACTIVITIES DURING THE YEAR
October 2019 to March 2020
Highlights of Works of Ambuja Cement Foundation

Programme/Activities	Achievement	Details of Activity
Water Resource Management & Drinking Water		
Water Resource Management & Drinking Water		
Drinking water quality testing	22	All Core villages
Handpump (repairing)	4	Rawan, Khairtal
Bore well digging	2	Baloda Bazar, Karmandi
Rain Water Recharge Structure	11	Rawan, Devrani
Dam Renovation Work	1	Karmada
Rural Infrastructure Development		
Construction of Road	350 meter	Devrani, Rawan, Bhadrapali
Boundary wall construction/repairing	500 meter	Maldi, Rawan
Construction of School building	1	Bharseli
Construction of community building	2	Sarkipar, Baloda Bazar
School painting	4	Rawan, Khairtal, Bhadrapali, Bharseli
Fencing work	2500 meter	Pousari, Arjuni, Bharseli
Solar light installation	11	Karmandi
Health sub center renovation	1	Rawan
School toilet renovation	3	Rawan, Khairtal, BHadrapali
Hume pipe laying	1	Rawan
Agro Based Livelihood & Allied Activities		
Follow up of Farmers under SRI (Paddy)	152	Core Villages
Follow up of Farmers under Improved Paddy Cultivation	432	Core Villages
Follow up of Farmers under Vegetable & Fruit cultivation (Kharif)	275	Core Villages (636 fruit plants planted in kitchen garden)
Wheat Cultivation with improved package of practices	286	Core villages
Mustard cultivation with improved package of practices	111	Core villages
Promotion of kitchen gardening in Rabi season	137	Core villages
Training of farmers on improved package of practices for wheat/mustard cultivation	701	Core Villages
Exposure of farmers at Wheat/Mustard demo	628	Core Villages

plots (farmer's Field day)		
Promotion of sprinklers set	25	25 farmers got sprinkler set in Core Villages
Promotion of foot operated sprayer pumps	14	14 farmers under core villages
Introducing manual cum battery operated knapsack sprayer pump	110	Core villages
Introducing manual knapsack sprayer pump	90	Core villages
Introducing pressure sprayer pump (2 lit)	100	100 farmers under kitchen gardening from our core villages
Introducing watering can (Hazara) of 5 lit	100	100 farmers under kitchen gardening from our core villages
Support farmers to get installed solar pump	10	Core villages
Training to community cadres (Pashu Sakhis and Community Livestock Facilitators)	6	5 Pashu Sakhi and 1 CLF from core villages
Training to Krishi mitra for improved package of practices	5	5 Krishi Mitra from core villages
Exposure of farmers at "Rashtriya Krishi Mela" at Raipur	31	31 farmers from core villages
No. of animal treated/vaccinated	3677	139 Households
Support farmer producer company to set up their business like- custom hiring centre (farm machineries)	191	191 members from core villages
Health & Sanitation		
ANC Camp Organized	42	Core Villages
Total Patient treated	1113	
General Health Camp Organized	29	Core Villages
Total Patient treated	1137	
NCD Camp	19	Core Villages
Total Patient treated in NCD Camp	1038	
Organized NCD Awareness Sessions	339	Core Villages
People Sensitized through NCD Awareness Sessions	4933	Sensitized on NCD reasons, symptoms, effects & treatment
Awareness Generation Camp on various Health Issues	8	Core Villages
No. of Participant in Health Awareness	1790	
Organize Sanitation & Hygiene Awareness	13	Sanitation Awareness, Nukkad Natak
Women Empowerment		

New SHG Formed	56	Core Villages
New Members added in SHGs	623	Core Villages
No. of Members doing Income Generating Activity	923	Core Villages
Skill Development		
Training Batch Completed	14 Batches	
Trainee Trained	285	
Trainee Placed	219	76%
Ongoing Training Batch	3 Batches (63 Trainees)	
Total No. of Trainee Enrolled	348	Trained & Ongoing
Road safety training and event organized with student	Total 110 Trainees Participated	
Rally organized on road safety in Bhatpara town	Total 140 Trainees Participated	
Mock drill to evacuate from building and training institute and fire. Evacuation training from height organized	Total 145 Trainees Participated	
Parent Teacher meeting being organized at institute	112 parents participated in meeting.	
Training on Financial inclusion organized at Institute and bankers invited for briefing.	114 trainee participated.	
Participated in event organised by district administration on startup business by District Administration.	180 youth participated.	
Participated in Republic Rally organized by District Administration and bagged the first prize by skill development trainee.	60 youth participated.	

Financial Statement

AMBUJA CEMENT FOUNDATION – Bhatapara		
EXPENSES DETAIL FROM 01-10-2019 to 31-03-2020		
S.NO	ACTIVITIES	LH SPEND
1	EDUCATION DEVELOPMENT	1307052
2	WATER RESOURCE MANAGEMENT	997726
3	HEALTH DEVELOPMENT	2067447
4	WOMEN ENPOWERMENT	672336
5	INFRASTRUCTURE	5879408

6	AGRO BASED ACTIVITIES	2049705
7	SKILL TRAINING	3199988
8	Community Welfare (Sports & cultural activities)	446818
9	ESTABLISHMENT	1411313
	TOTAL=	18031793

Activity Photographs.



Sprinkler



Farmers Training



Foot Operated sprayer pump



Farmers training



Solar Light



Water Recharge

o/c

Ambuja Cement

REF: ACL/ENV/2019-20/80

Date : 22.08.2019

To,
The Member Secretary
Chhattisgarh Environment Conservation Board,
Paryavas Bhavan, North Block Sector-19,
Naya Raipur(C.G.) 490099

Sub : Submission of Environmental Statement (Form-V) of Cement Plant (including Line-1 & Line-2), Lime Stone Mine (Rawan and Maldi Mopar), CPP and DGs. M/s Ambuja Cements Limited, Unit-Bhatapara for the year 2018-19.

Sir,

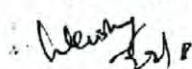
Please find enclosed herewith dully filled Form – V (see rule 14), Environment Statement Report (2018-19) for your kind perusal.

Please note that this report is based on Cement Plant (including Line-1 & Line-2), Lime Stone Mine (Rawan and Maldi Mopar), Captive Power Plant and DGs.

Hope you will find the same in order.

Thanking you,

For Ambuja Cements Limited.
(Unit- Bhatapara)


G.V. Rama Krishna
Manufacturing Cluster Head (East)

CC. :

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 Baloda Bazar, Dist. Baloda Bazar – 493 331 (C.G.)
Ph.: 07727-220010 to 15, Fax: 220004

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 छ0ग0

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 एम0टी0पी0ए0 में वृद्धि करते हुए 3.5 एम0टी0पी0ए0 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

राजकुमार २५६
सरपंच
ग्राम पंचायत, भरसेली
18/5/2011

डि.जे.ए.एम. मिश्रा
सरपंच
ग्राम पंचायत पौसरी
वि.खं. बलौदाबाजार (छ.ग.)

AMBUJA CEMENTS LIMITED

(UNIT - BHATAPARA)

WORKS : P.O. : Rawan, Tehsil : Beloda 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. : Junagadh, Gujarat-362 715