

**Ref: ACL/BYT/ENV/2024-2025/219****Date: 04.11.2024**

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

**Sub:** Submission of Half Yearly Environment Clearance Compliance Report along with Environmental Monitoring Report for the period **April 2024 to September 2024** for Rawan Limestone Mines.

**Ref:** EC letter no. J-11015/330/2006-IA II (M) dated 8<sup>th</sup> June 2007.

Dear Sir,

Please find the enclosed herewith the six-monthly Environment Clearance compliance report along with Environmental Monitoring report from **April 2024 to September 2024**, for our Rawan Limestone Mine at Village & Post office-Rawan, Distt. Balodabazar, Chhattisgarh.

This is for your kind information and record.

Thanking you.

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



**(Kaushal Kumar Mishra)**  
**Chief Operation Manager**



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

**Cc : 1. CPCB, Zonal Office, Vithal Market, Paryavaran Parisar , E-5 Arera Colony Bhopal (MP) -462016**

**2.The M.S., CECB, Paryavas Bhavan, North Block Sector-19, Atal Nagar (C.G.) 490099.**

**3 The RO, CECB, New Office Building Ring Road No 2, Tatibandh Distt Raipur (C.G.) 492099**

Ambuja Cements Limited  
Unit – Bhatapara  
PO Rawan Village Tehsil Balodabazar  
District Balodabazar – Bhatapara – 493331  
Chhattisgarh India

Registered Office  
Adani Corporate House,  
Shantigram, S.G. Highway,  
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[www.ambujacement.com](http://www.ambujacement.com)

**Environment Clearance Half Yearly Compliance Report  
(April 2024 – September 2024)**

**of**

**Rawan Limestone Mine  
(Capacity: 6.31 MTPA, ML Area: 420.95 Ha.)**

**Located at**

**P.O. Rawan, Tehsil- Baloda Bazar,  
District-Baloda Bazar- Bhatapara, Chhattisgarh**



**M/s AMBUJA CEMENTS LTD.**

**(Unit: Bhatapara)**

**P.O.: Rawan, Tehsil. & Dist.: Baloda Bazar - Bhatapara  
Chhattisgarh - 493331, India**

**Compliance Status of Environmental Clearance Conditions accorded by MoEF&CC for the Expansion Project of Rawan Limestone Mine from 2.06 MTPA to 6.31 MTPA of M/s Ambuja Cements Ltd. Located at P.O. Rawan, Tehsil: Baloda Bazar, District Raipur, Chhattisgarh. Ref. no. J-11015/330/2006-IA II (M), dated : 8th June 2007**

Sr. No.	EC Conditions	Compliance Status as on 04 November 2024
<b>A. Specific Conditions</b>		
i.	Topsoil shall be stacked properly with proper slope with adequate safeguards and shall be backfilled for reclamation and rehabilitation of mined out area.	<b>Being complied.</b> Topsoil is stacked separately and utilization for reclamation and rehabilitation of mined out area and green belt development.
ii.	Over burden shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 20 m each stage shall preferably be of 10 m and over all slope of the dump shall not exceed 26°. The reverse slope shall be maintained to prevent wash off and water logging during rainy season. The mine pit area shall be reclaimed by back filling the OB in a phased manner. The OB dump shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall submit to the Ministry Of Environment & Forests on six month basis.	<b>Complied.</b> The overburden dumps are having maximum height of 20 m and overall slope of 26° is being maintained. The reverse slope is being maintained to prevent wash off and water logging during rainy season. The mine pit area reclamation is being done by back filling the OB in phased manner. The OB is stacked at non mineralized area. Inactive OB dumps are being stabilized by coir matting followed by plantation of native plant species. Six monthly compliance is being submitted regularly to MoEF&CC Regional Office, Raipur. Last Six -monthly compliance report was submitted via mail dated 27.05.2024 copy is enclosed as <b>Annexure-I.</b>
iii.	Garland drains shall be constructed to arrest silt and sediment flows from soil, and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	<b>Complied.</b> Garland drains are constructed around the dumps to arrest silt and sediment flows. The drains are connected to a settling tank or mine pits and accumulated water is being used for dust suppression, plantation etc. De-silting of garland drains is carried out at regular intervals. Photograph is enclosed as <b>Annexure-II.</b>

Sr. No.	EC Conditions	Compliance Status as on 04 November 2024
iv.	Controlled drilling and blasting shall be done by using dust extractors/wet drilling.	<b>Complied</b> Controlled blasting using non-electric delay initiation system is being practiced. Drilling is carried out with drill machines equipped with dust collector as well as water injection. Photograph is enclosed as <b>Annexure-III</b> .
v.	Plantation shall be raised in an area of 98.04 ha including green belt of adequate width by planting the native species around the ML area, roads, OB dump sites etc. in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.	<b>Being Complied.</b> Phase wise plantation is being carried out as approved mine plan in safety zone, along roads and on inactive OB dumps as shown in <b>Annexure IV</b> . The density of plantation is maintained at around 2500 plants per ha.
vi.	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	<b>Complied.</b> Conservation measures to augment ground water resources in the mine area in consultation with the Regional Director, Central Ground Water Board. Rainwater accumulates in the mines pit percolate to the ground thereby recharging the ground water table, Photographs enclosed <b>Annexure V</b> .
vii.	Regular monitoring of ground water level and quality shall be carried out by establishing well and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year–pre-monsoon (April-May), monsoon (August), Post Monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board.	<b>Complied</b> Three Piezometers are established in the ML area. Ground water level and quality is being monitored Post Monsoon (November) and winter (January). Water level monitoring and water quality analysis results enclosed as <b>Annexure-VI</b> . The installation work of Piezometers with telemetry system has been installed and photographs of same is attached as <b>Annexure VI - a</b>
viii.	Prior permission from the competent authority shall be obtained for drawl of ground water, if any.	<b>Complied.</b> We have obtained the NOC from CGWA copy enclosed as <b>Annexure-VII</b>
ix.	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	<b>Complied</b> Transportation of mineral from crusher to plant by the fully covered belt conveyer and vehicles used for mineral transportation are maintained periodically to control exhaust emissions and all the vehicles are PUC certified.  Overloading vehicles transporting minerals within the mine lease is strictly prohibited.

Sr. No.	EC Conditions	Compliance Status as on 04 November 2024
x.	A final mine closure plan, along with details of corpus fund, shall be submitted to the Ministry of Environment & Forests and Climate Change 5 years in advance of final mine closure for approval.	<b>Noted for compliance.</b> Final mine closure plan, along with details of corpus fund, will be submitted to MoEF&CC, 5 years in advance of final mine closure.
<b>B. General Conditions.</b>		
i.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests and Climate Change.	<b>Noted and Complied</b> No change in mining technology and scope of working will be made without prior approval of MoEF&CC.
ii.	No change in the calendar plan including excavation, quantum of mineral limestone ore shall be made.	<b>Noted and Complied</b> Limestone is being produced as per the calendar plan and EC permission.
iii.	Conservation measures for protection of flora and fauna in the core and buffer zone shall be drawn up in consultation with the local forest and wildlife department.	<b>Noted and complied.</b> Thick plantation using local flora species is being carried out on safety zone, along transport roads and on inactive dumps with consultation of Forest Department. Fencing of the mining area is being carried out to avoid inadvertent entry of persons/animals.  Plantation Survey has been conducted by consultant. The records available with industry.
iv.	Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State pollution Control Board.	<b>Complied</b> Ambient Air quality monitoring locations have been established in the core zone and in buffer area. Regular air quality monitoring is being carried out by NABL Accredited lab Monitoring report is enclosed as <b>Annexure-VI</b> .
v.	Data on ambient air quality (RPM, SPM, SO <sub>2</sub> and NO <sub>x</sub> ) should be regularly submitted to the Ministry including its regional office located at Bhopal and the State Pollution Control Board/ Central Pollution Control Board once in six months.	<b>Complied</b> Four CAAQMS installed and its connectivity given to CPCB and CECB. Ambient air quality is regularly monitored by NABL accredited Lab and reports are submitted to regional office of MoEF&CC, CECB & CPCB regularly.

Sr. No.	EC Conditions	Compliance Status as on 04 November 2024
vi.	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	<b>Complied</b> Mobile water sprinklers are provided for periodic water sprinkling on haul roads and fix sprinklers installed at loading and unloading points, etc. Regular water sprinkling is being carried out at fugitive dust emission sources to control dust emissions. Photograph enclosed as <b>Annexure- VIII.</b>
vii.	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc shall be provided with ear plugs/muffs.	<b>Complied</b> Periodic maintenance of machinery used in mines is carried out to control noise below 85 dBA. Workers engaged in drilling & HEMM operations are provided with ear plugs/Muffs. Periodic noise level monitoring is conducted. The Ambient Noise monitoring report enclosed as <b>Annexure-VI.</b>
viii.	Industrial wastewater (workshop and wastewater from the mine) 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. Oil and grease trap shall be installed before discharge of workshop effluents.	<b>Complied</b> There is no process effluent generation in the mines. Effluent from workshop in the mine is treated in Oil and Grease trap system provided in the workshop. Surface run-off from the broken-up area is collected in settling tank/mine pits and is used for dust suppression and plantation. Analysis report is enclosed as <b>Annexure- VI.</b>
ix.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	<b>Complied</b> Protective Respiratory Devices (dust masks) are provided & safety appliances are being used by the workers. Shoes, dust mask, helmet & ear plug, have been provided & pre-employment and refresher safety training is being given to all the workers.
x.	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	<b>Complied</b> Occupational health surveillance program for all workers are undertaken periodically as per Mine Acts.
xi.	A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a senior executive, who will report directly to the Head of the organization.	<b>Complied</b> Environmental Management Cell has been established under supervision of Environmental Manager. The Environmental Manager directly reports to the Unit Head.

Sr. No.	EC Conditions	Compliance Status as on 04 November 2024
xii.	The project authorities shall inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	<b>Complied</b> Annual financial closures is on 31 <sup>st</sup> December • Environmental Clearance granted by MOEF vide letter no. J-11015/330/2006-IA II (M) date:08.06.2007 • Mine is in operation since 1984.
xiii.	The fund earmarked for environmental protection measures shall be kept in separate account and should not be diverted to other purpose. Year wise expenditure shall be reported to the Ministry and its regional office Bhopal.	The environmental expenditure for the period October 2022 to March 2023 is enclosed as <b>Annexure IX</b>
xiv	The project authority shall inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	<b>Complied</b> Annual financial closures is on 31 <sup>st</sup> December • Environmental Clearance granted by MOEF vide letter no. J-11015/330/2006-IA II (M) date:08.06.2007. Mine is in operation since 1984.
xv.	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	<b>Noted.</b>
xvi	A copy of clearance letter will be marked to concerned Panchayat/ local NGO, if any, from whom suggestion/representation has been received while processing the proposal.	<b>Complied.</b>
xvii.	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.	<b>Complied.</b>

Sr. No.	EC Conditions	Compliance Status as on 04 November 2024
xviii	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at the website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same shall be forwarded to the Regional Office of this Ministry located in Bhopal.	<b>Complied.</b> Published in Central chronical, Raipur dated 15.06.2018 and Harit Bhumi Raipur dated 15.06.2018, Copy is enclosed as <b>Annexure-X</b>
5.	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.	<b>Noted.</b>
6.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Noted.</b>
7.	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.	<b>Noted</b>



ACL BHATAPARA \_Half Yearly EC Compliance Report Rawan Limestone Mine & Maldi Mopar Limestone Mine (October 2023 - March 2024)

Subash Awasthy <subhash.awasthi@adani.com>

Mon 27/05/2024 17:43

To:IRO Raipur <iro.raipur-mefcc@gov.in>  
Cc:eccompliance-cg@gov.in <eccompliance-cg@gov.in>;Head Office CECB (hocecb@gmail.com) <hocecb@gmail.com>; cpcb.bhopal@gmail.com <cpcb.bhopal@gmail.com>;Regional Officer (rocecbraipur2014@gmail.com) <rocecbraipur2014@gmail.com>;Kaushal Kumar Mishra <KAUSHAL.MISHRA@adani.com>;Sanjay Prasad <Sanjay.Prasad@adani.com>;Sanjeev Kumar Singh <sanjeevkumar.singh@adani.com>

2 attachments (14 MB)

ACL Bhatapara \_Maldi Mopar Limestone Mine \_EC Compliance(Oct 2023 - March 2024).pdf; ACL Bhatapara \_Rawan Limestone Mine \_EC Compliance(Oct 2023 - March 2024).pdf;

Dear Sir,

Please find enclosed herewith Half yearly EC Compliance Report of stipulated conditions along with Monthly Environmental Monitoring Report for the period (October 2023 - March 2024 ) Ambuja Cements Ltd. Bhatapara of Rawan Limestone Mine & Maldi Mopar Limestone Mine. Copy of same will be uploaded on the company & MOEF&CC website shortly .

This is for your kind information and record please.

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Head - Environment

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## Annexure II

Garland Drain





## Annexure III



Typical View of Drill with Dust Extractor system equipped with water injection system



**Green Belt Development**













## Recharge Pit

## Annexure V



**Environmental Data Generation (Unit: Bhatpara)**

**Average Report Mines Area**



**Prepared By :-**



**M/s Gurukripa Envirocare Pvt Ltd**  
**J 491 / J492 Sitapura Industrial Area,**  
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**Approved by:-NABL/M0EF & CC/MSME/OHSAS 45001:2018/ISO 9001:2015/ISO 14001:2015**





**AMBUJA CEMENTS LIMITED AMBIENT AIR MONITORING CORE ZONE HALF YEARLY AVERAGE REPORT Rawan Mines Workshop/Rawan Mines North Block /Maldi mines Office/Maldi Mines South Block**

MONTH	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
Apr-24	67.00	19.33	15.19	19.24	0.25
May-24	55.52	21.13	18.10	20.10	0.34
Jun-24	41.20	18.14	19.08	19.20	0.40
Jul-24	37.44	17.24	13.15	18.60	0.20
Aug-24	44.10	19.45	11.72	19.14	0.30
Sep-24	52.00	20.51	15.19	14.90	0.26

**AMBUJA CEMENTS LIMITED AMBIENT AIR MONITORING BUFFER ZONE HALF YEARLY AVERAGE REPORT**

LOCATION	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>
DEVrani	42.00	18.50	13.19	16.90	0.19
KARMANDI	39.71	20.17	14.10	18.42	0.30
MOPAR	40.19	20.14	14.08	17.13	0.25
MALDI	44.50	22.27	12.12	17.64	0.30
PARSADI	40.10	20.15	11.70	18.74	0.41
MUDHIPAR	43.15	20.29	13.90	19.03	0.50
KHAIRTAL	42.31	20.30	13.02	16.20	0.52
BHADARPALLI	41.72	21.43	11.17	19.40	0.49
ARJUNI	43.10	21.34	13.16	18.61	0.47
RAWAN	45.24	20.15	14.10	16.20	0.49
PAUSARI	43.19	18.48	15.12	15.70	0.51
BHARSALI	41.13	22.60	12.70	14.50	0.67





## AMBUJA CEMENTS LIMITED STACK MONITORING HALF YEARLY AVERAGE REPORT

Sr.No.	Location	Results (PM)
1	Rawan Mines Crusher Line 01	14.56
2	Rawan Mines Crusher Line 02	16.10
3	Maldi Mines Crusher	15.10

## AMBUJA CEMENTS LIMITED FUGITIVE EMISSION HALF YEARLY AVERAGE REPORT

Sr.No.	Location	Results (SPM)
1	Rawan Mines South Block Field Office	980
2	Rawan Mines North Block Field Office	870
3	Rawan Mines South Block Haulage Road	1101
4	Rawan Mines North Block Haulage Road	1020
5	Maldi Mines Workshop Area	892
6	Maldi Mines Haulage Road	1180
7	Rawan Mines South Block Field Office	965

## AMBUJA CEMENTS LIMITED HALF YEARLY AMBIENT NOISE MONITORING AVERAGE REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
MALDI MINES OFFICE	dB(A)	67.3	59.8	75	70
RAWAN MINES NORTH BLOCK FEILD OFFICE	dB(A)	69.5	64.5		
RAWAN MINES SOUTH BLOCK FEILD OFFICE	dB(A)	65.0	64.1		
MALDI MINES CRUSHER AREA	dB(A)	67.9	61.0		
MALDI MINES OFFICE	dB(A)	67.3	59.8		







AMBUJA CEMENTS LIMITED HALF YEARLY AMBIENT NOISE BUFFER ZONE MONITORING AVERAGE REPORT					
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Devrani village	dB(A)	52.6	42.3	55	45
Karmandi village	dB(A)	53.4	43.1		
Mopar village	dB(A)	52.8	42.4		
Maldi village	dB(A)	51.5	41.5		
Parsadi village	dB(A)	52.3	40.7		
Mudhipar village	dB(A)	53.5	41.2		
Khairatal village	dB(A)	52.4	43.4		
Bhadrapali village	dB(A)	51.2	42.8		
Arjuni village	dB(A)	50.6	40.6		
Rawan village	dB(A)	52.7	42.5		
Pausari village	dB(A)	53.9	43.9		
Bharseli village	dB(A)	51.2	41.4		

AMBUJA CEMENTS LIMITED HLF YEARLY WATER LEVEL REPORT			
Sr.No.	LOCATION	UNIT	RESULT (DEPTH/BELOW GROUND WATER LEVEL)
1	Rawan Mine Near Office	Meter	4.8
2	Maldi Mine Near Office		2.0





# GURUKRIPA ENVIRO CARE PVT. LTD.

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Sr.No	Name of Test	Method of Test	Test Result	Unit s	Limits as per IS:10500:2012	
					Acceptable	Permissible
Chemical Testing						
Water						
1	pH	IS:3025 (Part-11)-2022	7.54	-	6.5–8.5	No relaxation
2	Odour	IS:3025(Part-5)-2018	Agreeable	-	Agreeable	Agreeable
3	Colour	IS:3025(Part-4)-2021	<1	Hazen	5.0(Max.)	15.0
4	Taste	IS:3025(Part-8)-1984	Agreeable	-	Agreeable	Agreeable
5	Turbidity	IS:3025(Part-10)-1984	0.68	NTU	1.0(Max.)	5.0
6	Electrical Conductivity (EC)	IS:3025(Part-14)-1984	402	-	-	-
7	Total Dissolved Solids	IS:3025(Part-16)-1984	210	mg/L	250.0(Max.)	300.0
8	Aluminum(as Al)	IS 3025(Part 65):2014	BLQ(LOQ:0.01)	mg/L	0.03(Max.)	0.20
9	Anionic Detergents (as MBAS)	Annex K of IS 13428:2005	BLQ (LOQ 0.05)	mg/L	0.20(Max.)	1.0
10	Boron(as B)	IS 3025(Part 65): 2014	BLQ (LOQ 0.05)	mg/L	0.50 (Max.)	2.4
11	Calcium(as Ca)	IS:3025 (Part-40)-1991	48.18	mg/L	75.0(Max.)	200.0
12	Chlorides(as Cl-)	IS:3025 (Part-32)-1988	68.23	mg/L	250.0(Max.)	1000.0
13	Copper (as Cu)	IS 3025(Part 65): 2014	BLQ(LOQ:0.005)	mg/L	0.05(Max.)	1.50
14	Fluorides(as F)	IS:3025 (Part-60)-2008	BLQ (LOQ 0.2)	mg/L	1.0(Max.)	1.5
15	Free Residual Chlorine	IS 3025(Part-26)-2021	BLQ (LOQ 0.005)	mg/L	0.20(Min.)	1.0
16	Iron (as Fe)	IS 3025(Part 53)-2003	BLQ(LOQ:0.1)	mg/L	1.0(Max.)	No relaxation
17	Magnesium(as Mg)	IS:3025 (Part-46)-1994	16.18	mg/L	30.0(Max.)	100.0
18	Manganese(as Mn)	IS 3025(Part 65)-2014	BLQ(LOQ:0.001)	mg/L	0.10(Max.)	0.30
19	Nitrate(as NO3)	APHA 23rd Edition 4500-NO3-B:2017	5.0	mg/L	45.0(Max.)	No relaxation
20	Phenolic Compound(as C6H5OH)	IS:3025 (Part-43/Sec-1)2022	BLQ (LOQ 0.001)	mg/L	0.001(Max.)	0.002
21	Selenium(as Se)	IS 3025(Part 65)-2014	BLQ(LOQ:0.005)	mg/L	0.01(Max.)	No relaxation
22	Sulphate (as SO4)	IS:3025 (Part-24/Sec-1)2022	178.13	mg/L	200.0(Max.)	400.0
23	Total Alkalinity as calcium Carbonate	IS:3025 (Part-23)-1986	79	mg/L	200.0(Max.)	600.0
24	Total Hardness(as CaCO3)	IS:3025 (Part-21)-2009	179	mg/L	200.0(Max.)	600.0
25	Calcium Hardness as CaCO3	IS:3025 (Part-21)-2009	40.10	mg/L	Not Specified	Not Specified
26	Zinc(as Zn)	IS 3025(Part 65): 2014	0.003	mg/L	5.0(Max.)	15.0

Remarks :- Average Report Rawan Mine Bore Well/Maldi Mines Bore Well



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J-491/492, Near Chatrala Circle,  
Sitapura Industrial Area, Jaipur-302022 (Raj.)

Approved by : NABL / MoEF & CC / CPCB and SPCB / MSME / OHSAS 45001:2018 / ISO 9001:2015 / ISO 14001:2015





# GURUKRIPA ENVIRO CARE PVT. LTD.

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Sr.No	Name of Test	Method of Test	Test Result	Unit s	Limits as per IS:10500:2012	
					Acceptable	Permissible
Chemical Testing						
Water						
1	Ph	IS:3025 (Part-11)-2022	7.41	-	6.5–8.5	No relaxation
2	Odour	IS:3025(Part-5)-2018	Agreeable	-	Agreeable	Agreeable
3	Colour	IS:3025(Part-4)-2021	<1	Hazen	5.0(Max.)	15.0
4	Taste	IS:3025(Part-8)-1984	Agreeable	-	Agreeable	Agreeable
5	Turbidity	IS:3025(Part-10)-1984	0.52	NTU	1.0(Max.)	5.0
6	Electrical Conductivity (EC)	IS:3025(Part-14)-1984	277	-	-	-
7	Total Dissolved Solids	IS:3025(Part-16)-1984	172	mg/L	250.0(Max.)	300.0
8	Aluminum(as Al)	IS 3025(Part 65):2014	BLQ(LOQ:0.01)	mg/L	0.03(Max.)	0.20
9	Anionic Detergents (as MBAS)	Annex K of IS 13428:2005	BLQ (LOQ 0.05)	mg/L	0.20(Max.)	1.0
10	Boron(as B)	IS 3025(Part 65): 2014	BLQ (LOQ 0.05)	mg/L	0.50 (Max.)	2.4
11	Calcium(as Ca)	IS:3025 (Part-40)-1991	45.98	mg/L	75.0(Max.)	200.0
12	Chlorides(as Cl-)	IS:3025 (Part-32)-1988	34.18	mg/L	250.0(Max.)	1000.0
13	Copper (as Cu)	IS 3025(Part 65): 2014	BLQ(LOQ:0.005)	mg/L	0.05(Max.)	1.50
14	Fluorides(as F)	IS:3025 (Part-60)-2008	BLQ (LOQ 0.2)	mg/L	1.0(Max.)	1.5
15	Free Residual Chlorine	IS 3025(Part-26)-2021	BLQ (LOQ 0.005)	mg/L	0.20(Min.)	1.0
16	Iron (as Fe)	IS 3025(Part 53)-2003	BLQ(LOQ:0.1)	mg/L	1.0(Max.)	No relaxation
17	Magnesium(as Mg)	IS:3025 (Part-46)-1994	16.99	mg/L	30.0(Max.)	100.0
18	Manganese(as Mn)	IS 3025(Part 65)-2014	BLQ(LOQ:0.001)	mg/L	0.10(Max.)	0.30
19	Nitrate(as NO3)	APHA 23rd Edition 4500-NO3-B:2017	4.9	mg/L	45.0(Max.)	No relaxation
20	Phenolic Compound(as C6H5OH)	IS:3025 (Part-43/Sec-1)2022	BLQ (LOQ 0.001)	mg/L	0.001(Max.)	0.002
21	Selenium(as Se)	IS 3025(Part 65)-2014	BLQ(LOQ:0.005)	mg/L	0.01(Max.)	No relaxation
22	Sulphate (as SO4)	IS:3025 (Part-24/Sec-1)2022	150.19	mg/L	200.0(Max.)	400.0
23	Total Alkalinity as calcium Carbonate	IS:3025 (Part-23)-1986	58	mg/L	200.0(Max.)	600.0
24	Total Hardness(as CaCO3)	IS:3025 (Part-21)-2009	117	mg/L	200.0(Max.)	600.0
25	Calcium Hardness as CaCO3	IS:3025 (Part-21)-2009	26.19	mg/L	Not Specified	Not Specified
26	Zinc(as Zn)	IS 3025(Part 65): 2014	0.002	mg/L	5.0(Max.)	15.0

Remarks: - Average Report Rawan Mines RO/Maldi Mines RO



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www.gurukripaenviro.com

J-491/492, Near Chatrala Circle,  
Sitapura Industrial Area, Jaipur-302022 (Raj.)

Approved by : NABL / MoEF & CC / CPCB and SPCB / MSME / OHSAS 45001:2018 / ISO 9001:2015 / ISO 14001:2015





## AMBUJA CEMENTS LIMITED HALF YEARLY SOIL ANALYSIS AVERAGE REPORT

Sr.No	Parameter	Unit	Method	RAWAN	MALDI
<b>A. PHYSICAL PARAMETERS</b>					
1	Gravel	%	Agriculture soil Manual	7.25	11.12
2	Moisture	%	Agriculture soil Manual	15.27	13.14
3	Texture	-	Agriculture soil Manual	Clay Loam	Clay Loam
4	Bulk density	g/cm <sup>3</sup>	Agriculture soil Manual	1.3	1.34
<b>PARTICAL SIZE DISTRUBUTION</b>					
5	Sand	%	Agriculture soil Manual	41	38
	Silt	%	Agriculture soil Manual	24.3	30.3
	Clay	%	Agriculture soil Manual	25	29
6	Permeability	cm/sec	Agriculture soil Manual	7-Oct	4-Oct
7	Water Holding Capacity	%	Agriculture soil Manual	16.2	18.61
<b>B. CHEMICAL PROPERTIES</b>					
8	pH (1:2.5 Aq. Extract) At 25°C	-	IS: 2720:(Part-26):1987 RA 2011	7.52	7.4
9	Electrical Conductivity (1:2.5 Aq. Extract)	µs/cm	IS: 14767:2000 RA 2016	340	351
10	Total Organic matter	%	Agriculture soil Manual	4.03	5.2
11	Total Organic Carbon	%	Agriculture soil Manual	1.4	1.33
12	Available Nitrogen (as N)	Kg/hect	Agriculture soil Manual	284	290
13	Available Phosphorous (as P)	Kg/hect	Agriculture soil Manual	22.1	25
14	Available Potassium (as K)	Kg/hect	Agriculture soil Manual	131	136
15	Water soluble Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	mg/Kg	Agriculture soil Manual	111	114
16	Available Boron (B)	mg/Kg	Agriculture soil Manual	bdl	bdl
17	Available Iron (Fe)	mg/Kg	Agriculture soil Manual	0.33	0.36
18	Available Copper (Cu)	mg/Kg	Agriculture soil Manual	0.4	0.33
19	Available Zinc (Zn)	mg/Kg	Agriculture soil Manual	0.52	0.46
20	Available Manganese (Mn)	mg/Kg	Agriculture soil Manual	0.24	0.2
21	Total Chromium (Cr)	mg/Kg	Agriculture soil Manual	bdl	bdl
22	Molybdenum (Mo)	mg/Kg	Agriculture soil Manual	bdl	bdl
23	Total Lead (Pb)	mg/Kg	Agriculture soil Manual	1.4	1.45
24	Total Cadmium (Cd)	mg/Kg	Agriculture soil Manual	bdl	bdl
25	Total Selenium (Se)	mg/Kg	Agriculture soil Manual	bdl	bdl
26	Total Nickel (Ni)	mg/Kg	Agriculture soil Manual	bdl	bdl





## 2.3 GROUND WATER LEVELS:

Ground water levels are not static. It is always under the influence of time- dependent recharge and discharge factors. As a result, the water level in the aquifer system fluctuates and the range depends on the period of influence. The recharge is due to many factors such as rainfall, seepage from reservoirs, lakes, ponds, river and irrigation, etc. The discharge includes ground water withdrawal through manual and pumping systems, natural seepage to rivers and sea, evaporation from shallow water table and transpiration through vegetation. The monitoring database on water levels and chemical parameters helps to simulate models of forecasting, planning and management of ground water resources.

<b>M/s Ambuja Cement Ltd. Bhatapara Hydrological Data Sept – 2024</b>				
<b>S.N</b>	<b>Name of Village</b>	<b>Sample Code</b>	<b>Date of Measurement</b>	<b>Depth (Mtr.)</b>
1	Latwa Village	GW-1	17-09-2024	3.50
2	Chhuiha Village	GW-2	17-09-2024	4.00
3	Kukurdiha Village	GW-3	17-09-2024	3.40
4	Rawan Village	GW-4	17-09-2024	4.00
5	Pausari Village	GW-5	17-09-2024	5.00
6	Khamriya Village	GW-6	17-09-2024	2.10
7	Karmada Village	GW-7	17-09-2024	4.20
8	Arjuni Village	GW-8	17-09-2024	5.00
9	Maldi Village	GW-9	17-09-2024	3.40
10	Moper Village	GW-10	17-09-2024	4.20
11	Devrani Village	GW-11	17-09-2024	3.10
12	Semradih Village	GW-12	17-09-2024	5.20
13	Chandih Village	GW-13	17-09-2024	3.40
14	Champa Village	GW-14	17-09-2024	5.30
15	Dhabadih Village	GW-15	17-09-2024	2.10
16	Risda Village	GW-16	17-09-2024	4.20
17	Topa Village	GW-17	17-09-2024	1.50
18	Amera Village	GW-18	17-09-2024	2.20
19	Magar Chaba Village	GW-19	17-09-2024	1.50
20	Bhadarpalli Village	GW-20	17-09-2024	5.00
21	Baloda Bazar Village	GW-21	17-09-2024	3.20
<b>Average Month of Sept</b>				<b>3.50</b>

*Sareen*

**Tested By  
(Sr. Chemist/Chemist)**



**Verified By & Authorized Signatory  
Mr. Neeraj Kumar Yadav  
(Quality Manager)**

This Report is issued under the following terms & Condition:

1. Samples are not drawn by Gurukripa Enviro Care Private Limited, unless otherwise mentioned. The results are applicable only to the submitted sample. Endorsement of the product is neither inferred nor implemented.
2. The test report in full or part shall not be used for promotional or publicity purposes without the written consent of Gurukripa Enviro Care Private Limited.
3. Samples shall be stored for the period of 15 days after the date of issue of Report.

## Annexure VI

### Typical View of Digital Piezo Level Monitoring





Government of India  
Ministry of Jal Shakti  
Department of Water Resources, River Development and Ganga Rejuvenation  
Central Ground Water Authority (CGWA)  
Application for Issue of NOC to Abstract Ground Water (NOCAP)

**Application for Renewal of NOC to Dewater Ground Water for Mining Industry  
(Application for Renewal of NOC)**

Application Number : 21-4/17/CT/MIN/2011  
Old Application Number : 21-4(17)/NCCR/CGWA/2011  
Applied For Renewal : 2nd

1.	<b>General Information:</b>	
	Water Quality:	Fresh Water
	Purpose of Renewal Application:	Existing with Additional Ground Water Requirement
	Application Type Category/ Type of Application	Limestone
2.	Name of Mine/Project: AMBUJA CEMENTS LTD	
3.	Location Details of the Mining Unit- (Attach Site, Approved Mining Plan, Toposketch of Surrounding 10km Radius Outside) (\$) :	
	Address Line 1 :	VILLAGE RAWAN KUKURDHI BERSELI AND PAUSARI
	Address Line 2 :	BLOCK TEHSIL BALODABAZAR DISTRICT BALODABAZAR
	Address Line 3 :	
	State:	CHHATTISGARH
	District:	BALODA BAZAR
	Sub-District:	SIMGA
	Village/Town:	Rawan
	Latitude:	
	Logitude:	
	Area Type :	Non-Notified
	Area Type Category :	Safe
	Whether industry is MSME:	No
4.	<b>Communication Address</b>	
	Address Line 1:	VILLAGE RAWAN
	Address Line 2:	TEHSIL BALODABAZAR DISTRICT BALODABAZAR
	Address Line 3:	
	State:	CHHATTISGARH
	District:	BALODA BAZAR
	Sub-District:	BALODA BAZAR
	Pincode:	493331
	Phone Number with Area Code:	
	Mobile Number:	91 8982073666
	Fax Number:	
5.	<b>Details of Existing NOC issued by CGWA (enclose copy)</b>	
	E-Mail:	subhash.awasthi@adani.com
	NOC Letter No:	CGWA/NOC/MIN/REN/1/2019/375
	Date of Issuance:	05/09/2019
	Vailidity (Start):	26/07/2019
	Validity (End):	25/07/2024

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	Reason for not applying for renewal before expiry of NOC Validity (Attach Affidavit):	NA
6.	<b>Change in Land Use Pattern after execution of Project and Surroundings (10 km Radius - Outside)</b>	
	Mining activities is being done as per mining plan.	
7.	<b>Land Use Detail of Project Area</b>	
	<b>Land Use Details</b>	<b>Existing (sq meter)</b>
	<b>Green Belt Area</b>	240200.00
	<b>Open Land</b>	3935430.00
	<b>Road/ Paved Area</b>	27800.00
	<b>Rooftop area of building/ sheds</b>	6100.00
	<b>Total</b>	4209530.00
8.	<b>Whether there is a change in Topography of the Area after the execution of the Project:</b>	Yes
	a) <b>Regional</b>	The maximum elevation is 307 m a msl is in the central region like flank and lowest elevations is 229 m a msl towards river and nalas.
	b) <b>Project Area</b>	The elevation ranges between 238 to 291 m amsl.
9.	<b>Whether there is change in Drainage pattern of the area after the execution of the Project:</b>	Yes
	a) <b>Regional</b>	Sheonath River contributes to Mahanadi river Basin.
	b) <b>Project Area</b>	The Jamunia river watershed falls in North-West part of Study area. The river Jamunia is flowing from WSW to ENE, tributary to Sheonath River. The Banjari Nala flowing from south to north Contributes to Jamunia River at village Khamhariya. Kharsi. Nala flowing from SW to NE which ultimately contributes to Sheonath river to Mahanadi River.
10.	<b>Present Townships / Villages within 10 km radius of the Project:-</b>	Rawan, Mald, Mopar, Devrani, Arjuni, Baloda Bazar, Bhatagaon, Bhasari, Kukradih etc

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11.	Whether the Groundwater Table will be Intersected by Activity :-										Yes	
	(a) At What Depth (m bgl)					Pre-monsoon			Post-monsoon			
	Minimum (m bgl)					10.00			7.00			
	Maximum (m bgl)					15.00			12.00			
	(b) Maximum Depth Proposed to Dewater (m bgl)					50.00						
	(c) Groundwater Flow Direction (Attach Map)(\$)					East to west (Map is attached)						
	(d) Any Other Information					-						
12.	Total Water Requirement for various Purpose to be Mentioned					Existing (m3/day)	Additional (m3/day)	Existing (m3/year)	Additional (m3/year)			
	Ground Water Required through Abstract Structure					305.00	0.00	111325.00	0.00			
	Ground Water Abstracted on account of Dewatering / Mining Seepage					5061.00	2455.00	1847225.00	896075.00			
	Total Ground Water Withdrawal					5366.00	2455.00	1958550.00	896075.00			
13.	Details of De-Watering Structure											
	(a) De-Watering Existing Structure											
	Number of Existing Structures:					1						
	SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours(Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA /If so Details Thereof		
	1	Mine Pumps / 2020	50.00 / -	15.00	376.00	20 / 365	Submersible Pump	150.00	Yes	Yes / NOC no. CGWA/IND /Proj/2019-375-R		
	(b) De-Watering Requirement and Additional Structure Detail											
	Number of Proposed Structures:					0						
	SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours(Day) / Days(Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof		
14.	Details of Utilization of Pumped Water (Please Attach Details)(m3/year) (\$)											
	(a) Water Supply			No								
	(b) Agriculture			No								
	(c) Green Belt Development			Yes	14600.00							
	(d) Suppression of Dust			Yes	66430.00							

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(e)	Recharge	No								
(f)	Any Other Item	Captive Industry-2625810 m3/year Mining/HEMM-36500 m3/year Domestic- 111325 m3/year								
<b>15. Monitoring of Ground Water Regime (Attach Map(\$))</b>										
(a)	Location Details of the Wells / Piezometers (Latitude, Longitude, Reduced Level)	Location details of the wells is attached in attachment section.								
(b)	Number of Wells / Piezometers	30 wells and 2 piezometer								
(c)	Attach Details of GW Level of Observation Wells / Piezometers( At Least for One Year )(\$)	Details of Ground water Level of Observation Wells is attached.								
(d)	General Quality of GW in the Area & Surroundings (\$)	The GW of surrounding area is within permissible limit. GW Quality Report is attached.								
(e)	Any Other Item	-								
<b>16. Give the details of change in groundwater regime and quality after execution of the project (Attach detailed report with Map showing GW flow direction(\$))</b>										
There will no change in GW and quality after execution of project. GW contour table map attached.										
<b>17. Proposed Pump / Pumping Groundwater Outside the Mine Pit for Domestic or Other Use (If so, give Details):</b>										
<b>Number of Existing Structures:</b>						4				
	SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof
	1	Borewell / 2017	80.00 / 152	10.00	6.36	12 / 365	Submersible Pump	5.00	Yes	Yes / NOC no. CGWA/IND/ Proj/2019-375-R
	2	Borewell / 2017	80.00 / 152	10.00	6.36	12 / 365	Submersible Pump	5.00	Yes	Yes / NOC no. CGWA/IND/ Proj/2019-375-R
	3	Borewell / 2017	80.00 / 152	10.00	6.36	12 / 365	Submersible Pump	5.00	Yes	Yes / NOC no. CGWA/IND/ Proj/2019-375-R
	4	Borewell / 2017	80.00 / 152	10.00	6.36	12 / 365	Submersible Pump	5.00	Yes	Yes / NOC no. CGWA/IND/ Proj/2019-375-R

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	Number of Additional Structures:					0					
		SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof

18. (a). Compliance to the Condition prescribed in the NOC				
	SNo.	Conditions given in NOC	Compliance Conditions Applicable	Status of Compliance
	1	Area Specific Plantation	Not Applicable	However, plantation has been done within mining lease area
	2	Domestic Water School Sanitation	Not Applicable	-
	3	Groundwater quality monitoring - Pre monsoon and Post monsoon	Yes	Groundwater Quality analysis regularly carried out. Analysis report is attached in attachment sections.
	4	Maintenance of recharge structures	Yes	Maintenance of water recharge structures is carrying out Regularly.
	5	Number of Pizometers as per NOC and Water Level Record	Yes	2 piezometers
	6	Number of Tubewells Borewales as per NOC	Yes	12 bore wells. (Out of 12, 4 are in operation and 8 are not in operation)
	7	Pizometer fitted with AWLRs with telemetry as per NOC	Yes	One Piezometer fitted with DWRL with Telemetry. Photographs and GWL are attached in attachment sections.
	8	Quantum of Groundwater as per NOC	Yes	305m3/day from borewell 5061 m3/day from mine seepage
	9	Recharge through ponds	Yes	Yes, Bhadrapali pond which recharges to the tune of 29729 m3/year
	10	Recycle and reuse of water	Yes	Yes, Through STP
	11	RWH and AR structures implemented	Yes	Yes
	12	Submission of Compliance report to the Region	Yes	Compliance report has been submitted online to CGWB.
	13	Water conservation measures	Not Applicable	-
	14	Water Security Plan of villages	Not Applicable	-
	15	Well monitored around the plant premises	Yes	Well monitored around the mine has been done and details Groundwater level is attached in attachment section

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	16	Wells fitted with water meter and its Record	Yes	Water flow meter has been installed on 4 borewells and mine discharge outlet. Photographs and Water consumption data is enclosed.
--	----	--	-----	---

**(b). Compliance to the Condition prescribed in the NOC - Other**

SNo.	Conditions given in NOC	Status of Compliance
1	None	NA

**19. Gainful utilization of pump water:-**

The water available in borewell and mine pump is being/will be pumped out for various utilizable activity such as Captive industry, Mining/HEMM, Dust Suppression, Greenbelt Development and drinking/domestic

**20. Details of Rainwater Harvesting and Artificial Recharge Measures for Groundwater Recharge in the Area:-**

The pond in Bhadrपाली village is used as RWH recharge pond. The total rain water harvesting quantity is 3.62 MCM/year

**MINING USE- Self Declaration**

☐ I hereby certify that the data and information furnished above are true to the best of my knowledge and belief and I am aware that if any part of the data / information submitted is found to be false or misleading at any stage, the application will be rejected outright.

I hereby declare that all the mandatory documents prescribed in the application form have been uploaded and no blank /irrelevant documents have been uploaded. I am also aware that any false/ wrong submission /uploading of document will lead to rejection of my application without any notice.

It is to certify that no case related to ground water withdrawal/ contamination is pending against the industry/ project/ unit as on date. Any such case filed against the company/ project/ unit in respect of ground water withdrawal/ contamination during the pendency of this application shall be immediately brought to the notice of CGWA.

I hereby undertake that in case any environmental compensation/ penalty is imposed on the firm by any statutory authority, I shall comply with the decision of such authority.

1. Application Proforma is subject to modification from time to time.

2. Application is submitted online on website <http://cgwa-noc.gov.in> to following office.

**Regional Director, Central Ground Water Board North Central Chhattisgarh, 2nd Floor, LK Corporate and Logistic Park, Dhamtari Road, NH-30, Dumartarai, RAIPUR, CHHATTISGARH, 492015**

3. Incomplete application will be summarily rejected.

**Scanned copy of last page of application with signature and seal should be attached at prescribed place before submission of application.**

4. Receipt of Processing Fee of Rs. 5000.00/- (Rupees Five Thousand Only) submitted through NON TAX RECEIPT PORTAL (<https://bharatkosh.gov.in>) should be attached along with hard copy of application.

**Processing Fee:-**

Bharat Kosh Transaction Ref. No:-	
Bharat Kosh Transaction Date:-	

**Note:- The Processing Fee is Non-Refundable. Applicant should ensure and Check Eligibility of Submission of Application and Required Documents before Submitting Online Application.**

5. Hard copy of application required:	No
---------------------------------------	----

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6.	Ground Water Quality Approved	Not Define	Ground Water Charge Required:	Not Define
	Ground Water Charge Recieve:	No	Ground Water Charge Amount:	
			Ground Water Aear Amount:	

**Attached Files:**

**1). GroundWater flow Direction Map: (Refer:11-C)**

S.No	Attachment Name	File Name
1	Groundwater Flow Direction Map	Groundwater Level Flow Direction Map.pdf

**2). GW Level of Observation Wells / Piezometer : (Refer:15-C)**

S.No	Attachment Name	File Name
1	Groundwater Level of Observations well	Groundwater Level of Observations well.pdf

**3). General Quality of Ground Water in the Area : (Refer:17-D)**

S.No	Attachment Name	File Name
1	Ground Water Quality Surrounding area	Ground Water Quality Surrounding area.pdf

**4). Changes in Topography : (Refer: 8)**

S.No	Attachment Name	File Name
1	Topography	Topography.pdf

**5). Changes in Drainage Pattern : (Refer: 9)**

S.No	Attachment Name	File Name
1	Drainage Map	Drainage.pdf

**6). Reason for Not Applying for Renewal before Expiring NOC : (Refer: 5)**

No Attachment Found!

**7). Existing NOC : (Refer: 5)**

S.No	Attachment Name	File Name
1	Existing NOC	NOC-Ambuja.pdf

**8). Compliance to the Condition prescribed in the NOC : (Refer: 17-a)**

SNo.	Conditions given in NOC	Attachments		
		S.No.	Attachment Name	File Name
1	Area Specific Plantation	No Attachment Found!		

**Government of India**  
**Ministry of Jal Shakti**  
**Department of Water Resources, River Development and Ganga Rejuvenation**  
**Central Ground Water Authority (CGWA)**  
**Application for Issue of NOC to Abstract Ground Water (NOCAP)**

**Application for Renewal of NOC to Dewater Ground Water for Mining Industry**  
**(Application for Renewal of NOC)**

**Application Number : 21-4/17/CT/MIN/2011**

**Old Application Number : 21-4(17)/NCCR/CGWA/2011**

**Applied For Renewal : 2nd**

2	Domestic Water School Sanitation	No Attachment Found!
3	Groundwater quality monitoring - Pre monsoon and Post monsoon	No Attachment Found!
4	Maintenance of recharge structures	No Attachment Found!
5	Number of Pizometers as per NOC and Water Level Record	No Attachment Found!
6	Number of Tubewells Borewales as per NOC	No Attachment Found!
7	Pizometer fitted with AWLRs with telemetry as per NOC	No Attachment Found!
8	Quantum of Groundwater as per NOC	No Attachment Found!
9	Recharge through ponds	No Attachment Found!
10	Recycle and reuse of water	No Attachment Found!
11	RWH and AR structures implemented	No Attachment Found!
12	Submission of Compliance report to the Region	No Attachment Found!
13	Water conservation measures	No Attachment Found!
14	Water Security Plan of villages	No Attachment Found!
15	Well monitored around the plant premises	No Attachment Found!
16	Wells fitted with water meter and its Record	No Attachment Found!

**9). Compliance to the Condition prescribed in the NOC - Other : (Refer: 17-b)**

S.No.	Conditions given in NOC	Attachments		
		S.No.	Attachment Name	File Name
1	None	No Attachment Found!		

**10). Extra Attachment :**

S.No	Attachment Name	File Name
1	Consent to Operate	Consent to Operate.pdf
2	Rain water harvesting	Rain water harvesting photographs.pdf
3	Water Abstraction Data Bore Well	Water Abstraction Data Bore Well.pdf
4	Water Abstraction Data Mine Pit	Water Abstraction Data Mine Pit.pdf

**11). Bharat Kosh Reciept (Porcessing Fee):**

No Attachment Found!

**12). Application with Signature and Seal:**

S.No	Attachment Name	File Name
1	Aplication	MiningRenewSADApplicationforExternal.pdf



**Government of India**  
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**Applied For Renewal : 2nd**

**13). MSME certificate in case of MSME:**

No Attachment Found!

Date :

Place :

Name & Signature of the applicant

(With official seal)

**Associated User :** CGWAPLANT

**Submitted By User :** CGWAPLANT

**Submission Date :** 24/07/2024

\* In case signed by any authorized signatory, the details of the signatory with the authorization shall be enclosed.

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## Annexure VIII

### Road Water Sprinklers



## Annexure-X

Central Chronicle Raipur  
dated 15.06.07

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**Notice**

Ambuja Cements Limited hereby informed all that they have been accorded Environment Clearance from the Ministry of their Project. Expansion of Rawan Lime Stone Mine and copy of clearance letter are available with the Chhattisgarh Environment Control Board/Committee and may also be seen on the web site of Ministry of Environment and Forests at <http://envfor.nic.in>.

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कार्यालयी

हरिभूमि रायपुर, दिनांक 15.06.2007

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**सूचना**

अम्बुजा सीमेंट्स लिमिटेड, एतद द्वारा सभी को सूचित करता है कि उनके परियोजना (रवान खदान विस्तार) हेतु मंत्रालय से पर्यावरण क्लियरेंस मिल गया है, जिसकी कॉपी छत्तीसगढ़ पर्यावरण नियंत्रण मण्डल/कमेटी के पास उपलब्ध है, जिसे पर्यावरण एवं वन मंत्रालय के वेब साइट <http://envfor.nic.in> पर भी देखा जा सकता है।

छात्रावास-गर्ल्स होस्टल न्यू शांतिनगर