

To,

Date: 20.11.2024

The Addl. Principal Chief Conservator of Forests (C),
Ministry of Env., Forest and Climate Change
Regional Office (WZ), E-5
Kendriya Paryavaran Bhawan,
E-5 Arera Colony, Link Road-3, Ravishankar Nagar,
Bhopal-462016

Subject: Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including mining area 185.57 Ha, non-mining area 208.395 Ha and area for installation of 500 TPH Capacity of Crusher 2 Ha) located near Villages: Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh of M/s Dalmia Cement (Bharat) Ltd. - *Submission of Half-Yearly Compliance-reg.*

Ref: Environmental Clearance (EC) granted by MOEFCC, Govt. of India vide Letter No. J- 11015/58/2017-IA.II (M) dated 26.07.2021.

Dear Sir,

With reference to above subject matter and referred letter, we are herewith submitting point wise Half-Yearly Compliance report of conditions laid down in Environment Clearance for the period **April-2024 to Sept- 2024** for your kind perusal and record.

Thanking You,

Yours Faithfully,

For, M/s. Dalmia Cement Bharat Limited.



Dinesh Dixit

HOD, Mines

Encl: a/a

Cc: 1. Regional Director, CPCB Zonal Office, Vithal Market, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016, Madhya Pradesh.
2. Regional Officer, M.P.Pollution Control Board, Satna Madhya Pradesh.

Dalmia Cement (Bharat) Limited

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CIN:U65191TN1996PLC035963

Registered Office: Dalmiapuram, District Tiruchirappalli - 621 651, Tamil Nadu, India

A Dalmia Bharat group company, www.dalmiabharat.com

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	IA/MP/MIN/64735/2017
Compliance ID	111765370
Compliance Number(For Tracking)	EC/M/COMPLIANCE/111765370/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	29-11-2024
RO/SRO Name	Shri Ashok Kumar Sinha
RO/SRO Email	tg035@ifs.nic.in
State	MADHYA PRADESH
RO/SRO Office Address	Integrated Regional Offices, Bhopal

Note:- SMS and E-Mail has been sent to Shri Ashok Kumar Sinha, MADHYA PRADESH with Notification to Project Proponent.

Half Yearly Compliance Report**2024****01 Dec(01 Apr - 30 Sep)****Acknowledgement**

Proposal Name	Proposed Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including mining area 185.57 Ha, non-mining area 208.395 Ha and area for installation of 500 TPH Capacity of Crusher 2 Ha) located near Villages: Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh of M/s Dalmia Cement (Bharat) Ltd.		
Name of Entity / Corporate Office	Dalmia Cement (Bharat) Ltd.		
Village(s)	JHIRIYA		
District	SATNA		
Proposal No.	IA/MP/MIN/64735/2017	Category	Non-Coal Mining
Plot / Survey / Khasra No.		Sub-District	Amarpatan
State	MADHYA PRADESH	Entity's PAN	*****9414C
MoEF File No.	J-11015/58/2017-IA.II(M)	Entity name as per PAN	DALMIA CEMENT (BHARAT) LIMITED

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office Dalmia Cement (Bharat) Ltd.

	Project Area as per EC Granted	Actual Project Area in Possession
Private	392.081	30.896
Revenue Land	0	0
Forest	0	0
Others	3.884	0
Total	395.96500000000003	30.896

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Limestone	Million Tons per Annum (MTPA)	31/07/2025	1.5	285 Tons	1.5

Conditions		
Specific Conditions		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Project proponent shall examine the possibility of undertaking commercial plantation in consultation with local community within two years.
PPs Submission: Agreed to Comply Noted.		Date: 18/11/2024
2	Human Health Environment	Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.
PPs Submission: Agreed to Comply Noted.		Date: 18/11/2024
3	Statutory compliance	The Project Proponent should obtain permission for withdrawal of ground water before commencing mining operations.
PPs Submission: Complied Complied. CGWA NOC has been obtained for ground water abstraction vide NOC no CGWA/NOC/MIN/ORIG/2021/13090 dated 25/09/2021 which is valid up to 24/09/2023. The extension of NOC validity is valid up to 24.09.2025. (A copy of the same is attached in Annexure-II)		Date: 27/11/2024
4	WATER QUALITY MONITORING AND PRESERVATION	The Project Proponent shall submit detailed Hydro Geological study for blocks where the water table is intersecting and obtain permission from CGWA before undertaking mining operations.
PPs Submission: Complied Complied. Detailed Hydrogeological study have been undertaken by JM EnviroNet Pvt. Ltd. for Hydro-geological evaluation during grant of EC. Ground water intersection is not anticipated in first 15 years of mining as per the study carried out. Prior NOC will be taken from CGWA for intersection of ground water. CGWA NOC has been obtained for ground water abstraction vide NOC no CGWA/NOC/MIN/ORIG/2021/13090 dated 25/09/2021 and it is valid up to 24/09/2023. The extension of NOC validity is valid up to 24.09.2025. (A copy of the same is attached in Annexure-II) Hydrogeological Study report was submitted earlier with the previous Compliance Report. Copy of Hydrogeological Study report has been submitted to RO, MOEFCC dated 01.12.2021 and the acknowledgement receipt of the same was also submitted earlier with previous Compliance report.		Date: 27/11/2024
5	MINING PLAN	The Project Proponent shall carry out the mining only in 187.57 Ha [185.57 Ha permissible mineral extraction area and 2 Ha for setting up of crusher of 500 TPH] only. The area of 208.395 Ha shall be treated as no mining area. In the no mining area only green belt development, afforestation and other protective activities shall be carried out.
PPs Submission: Agreed to Comply Mining activities will be carried out only in 187.57 Ha. Remaining 208.395 Ha will be treated as no mining area and only green belt development, afforestation and other protective activities will be carried out in accordance to the IBM approved Mining Plan.		Date: 18/11/2024
6	AIR QUALITY MONITORING AND PRESERVATION	The Project Proponent shall install the AQ station at the mine site, villages, from 500m edge of mining lease boundary towards Mini Zoo & White Tiger Safari for monitoring of any impact due to mining for the parameters mentioned.

<p>PPs Submission: Agreed to Comply Noted. This is a Greenfield project and currently the mining activities is limited to initial land development and land purchase. Installation of AQ stations as prescribed will be undertaken with advancement of mining activities.</p>		<p>Date: 18/11/2024</p>
7	Human Health Environment	<p>The Project Proponent shall monitor the ground vibration at the site, near the boundary and sensitive receptor during blasting. Villages located in non-mining zone shall be protected from noise and vibration, air pollution by adopting measures as given in the EMP and as per the DGMS.</p>
<p>PPs Submission: Agreed to Comply Noted. Currently, initial land development activities have been undertaken only. Blasting has not been undertaken yet. Vibration shall be monitored regularly and all necessary protection measures shall be undertaken as per EMP and rules/guidelines of DGMS. However, no blasting is proposed in 300 m safety barrier from habitation.</p>		<p>Date: 18/11/2024</p>
8	PUBLIC HEARING	<p>The budget of Rs. 2.0 Crores to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations.</p>
<p>PPs Submission: Being Complied Being Complied. The mine is in initial stage of land development and land purchase. It will be undertaken as per the Action Plan submitted during appraisal of EC. Following activities as committed has already been undertaken: 1. Water Tanker of 5000-liter capacity has been provided to Gram Panchayat Jhiriya Koparihan 2. Drilling of water borewell at village Jhiriya Kothar and Jhiriya Bajpaien 3. Support extended during Covid-19 pandemic by distributing masks, sanitizers in all villages. Ration support for 300 under privileged families. 4. Imparting training for skill development through Dalmia Institute of Knowledge and Skill Harnessing (DiKSHA) for youths of Pagara, Jhiriya Bajpein, Jhiriya Kothar and Jhiriya Koparihan villages. Total Cost Rs 9.90 Lakh. 5. Sustainable Livelihood Development Program implementation through Dalmia Bharat Foundation (DBF) for upliftment of Women, Animal Husbandry and Agriculture in Pagara, Jhiriya Bajpein, Jhiriya Kothar and Jhiriya Koparihan villages. Total Cost Rs 10.93 Lakh. (The details have been submitted earlier with previous compliance report)</p>		<p>Date: 27/11/2024</p>
9	LAND RECLAMATION	<p>The Project Proponent shall return each block within 2 years after completion of each activity at each block with the proper reclamation for the purpose of agriculture.</p>
<p>PPs Submission: Agreed to Comply Noted. After reaching at ultimate depth, part of the excavated pits will be backfilled and returned for agricultural purposes within 2 years. Part of excavated pits will be developed as water reservoir for community use.</p>		<p>Date: 18/11/2024</p>
10	GREENBELT	<p>The Project Proponent shall undertake the plantation in peripheral zone and ensure that the plantation in peripheral zone and plantation along haul roads should be completed within 3 years from the date of commencement of mining operations with at least 90% survival rate. Casualties of the previous year should be replaced other than the saplings proposed to be planted every year. PP shall provide tree guard to maintain the early stages of plant growth. PP shall undertake commercial plantation within 2 years at each block after it is backfilled.</p>
<p>PPs Submission: Agreed to Comply Noted. The mining activities is currently limited to initial mine development within the permissible area and activity related to land purchase However, plantation has been started in the purchased land. Soon after, land development activities and land purchase, plantation will be taken up in the desired manner. 350 plants have been planted within the ML area in this compliance period in addition to 100 Nos saplings planted up to previous compliance period. Photographs showing plantation is</p>		<p>Date: 19/11/2024</p>

attached as Annexure-I.		
11	MISCELLANEOUS	The Project Proponent shall convert the proposed 1.7 km road into cement road which connects the NH-75 for mineral transportation.
PPs Submission: Agreed to Comply Noted. Currently, DCBL is in the process of acquiring land to develop a dedicated road for mineral transportation.		Date: 18/11/2024
12	MISCELLANEOUS	The Project Proponent shall implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs as per the policy and guidelines of the Central/State Government, as provided under the law.
PPs Submission: Agreed to Comply Noted. Lands are being purchased in mutual agreement with the land owners and compensation is paid as per the Policy and guidelines of the State Government/Central Government as provided under the law.		Date: 18/11/2024
13	Corporate Environmental Responsibility	The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people.
PPs Submission: Agreed to Comply Noted.		Date: 18/11/2024
14	LAND RECLAMATION	The Project Proponent shall ensure that the water bodies used for community development.
PPs Submission: Agreed to Comply Noted. After reaching ultimate depth, part of excavated pits will be developed as water reservoir for community use.		Date: 18/11/2024
15	Statutory compliance	The Project Proponent should strictly follow the protective measures as suggested by PCCF, MP in the NOC granted vide Lr ...//81/3928 dated 10.06.2021 regarding the Maharaja Martand Singh Judeo Dev White Tiger Safari and Zoo.
PPs Submission: Agreed to Comply Noted.		Date: 18/11/2024
General Conditions		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
PPs Submission: Agreed to Comply Noted		Date: 18/11/2024
2	WATER QUALITY MONITORING AND PRESERVATION	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall

		be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
<p>PPs Submission: Agreed to Comply Noted. Currently, no waste water is generated as mining activities is limited to initial development and land purchase. However, in future it will be ensured that the effluent generated from the workshop when established, will be treated properly to conform to the prescribed standards. Valid CTO copy is attached in Annexure-III.</p>		<p>Date: 28/11/2024</p>
3	AIR QUALITY MONITORING AND PRESERVATION	<p>No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].</p>
<p>PPs Submission: Agreed to Comply Noted.</p>		<p>Date: 27/11/2024</p>
4	AIR QUALITY MONITORING AND PRESERVATION	<p>The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.</p>
<p>PPs Submission: Agreed to Comply Noted. Currently, the mining activities are intermittent and not carried out on regular basis. Therefore, water tankers are hired as and when required during development. With the advancement of mining operation, all the measures shall be implemented as per the provisions of EMP given in EIA/EMP report to control fugitive dust emissions such as permanent water sprinkling arrangement at the main haulage road, water sprinkling at loading and unloading points, Bag filters/dry Fog System and automatic water spray system at crusher etc.</p>		<p>Date: 19/11/2024</p>
5	GREENBELT	<p>The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.</p>

<p>PPs Submission: Agreed to Comply</p> <p>Noted. The mining activities is currently limited to initial mine development within the permissible area as Mining operation could not be commenced due to onset of monsoon. A Safety barrier (No mining zone) of 7.5m is demarcated all along the ML boundary. Soon after, land development activities and land purchase, greenbelt will be developed as per guidelines of CPCB. About 350 plants have been planted within purchased land in ML during this compliance period. (Photographs submitted in Annexure-I)</p>		<p>Date: 19/11/2024</p>
6	GREENBELT	<p>The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.</p>
<p>PPs Submission: Agreed to Comply</p> <p>Noted. No major mining activities except land development work have been undertaken due to onset of monsoon. Plantation has been started within ML boundary. However, Consultation with DFO, Satna is also in progress for development of greenbelt/plantation. Acknowledgement Letter towards submission to the concerned DFO was submitted earlier with previous Compliance report.</p>		<p>Date: 19/11/2024</p>
7	GREENBELT	<p>The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.</p>
<p>PPs Submission: Agreed to Comply</p> <p>No grazing land falls within ML area.</p>		<p>Date: 19/11/2024</p>
8	Human Health Environment	<p>Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic: infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.</p>
<p>PPs Submission: Agreed to Comply</p> <p>Noted Currently, the mining operation is limited to initial land development and land purchase. Being mining project, no major construction will be done except mines office, crusher, rest shelter etc. As local people will be engaged during construction phase, provision for housing for workers will not be required. However, all necessary facilities will be provided. During operation phase, local people will be employed. Proper infrastructure with shelter, drinking water, toilet and first-aid facilities will be provided to the laborers. Currently, mining activities is being carried out intermittently with limited manpower and restricted to initial land development and land purchase. At present, it is regulated by a remote office outside the ML area having all infrastructure facilities. Therefore, it is proposed to install portable Bio-toilets at the site to cater to the requirement. However, during later years when the mine will be operating at full capacity, domestic waste water</p>		<p>Date: 19/11/2024</p>

		will be treated in STP and treated water will be used for plantation purpose.	
9	Corporate Environmental Responsibility	The Project Proponent shall submit the time-bound action plan to the 'concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA. III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.	
		PPs Submission: Agreed to Comply Time bound action plan prepared and submitted during grant of EC and mentioned in para no. 17 of EC as per MoEFCC Office Memorandum No.22-65/2017-IA III dated 30th September, 2020. (Copy already Submitted with previous Compliance report). The mine is in initial stage of land development and land purchase. It will be undertaken as per the Action Plan submitted. However few activities have been undertaken which are detailed in Specific EC conditions No. 4.	Date: 19/11/2024
10	MISCELLANEOUS	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&Cc.	
		PPs Submission: Agreed to Comply Noted.	Date: 19/11/2024
11	MISCELLANEOUS	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	
		PPs Submission: Agreed to Comply Noted.	Date: 19/11/2024
12	MISCELLANEOUS	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&Cc & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	
		PPs Submission: Agreed to Comply Noted.	Date: 19/11/2024
13	MISCELLANEOUS	A separate 'Environmental Management Cell' with suitable qualified manpower should be set up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&Cc.	
		PPs Submission: Agreed to Comply Noted.	Date: 19/11/2024
14	MISCELLANEOUS	The concerned Regional Office of the MoEF&Cc shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&Cc officer(s) by furnishing the requisite data / information/ monitoring reports.	

PPs Submission: Agreed to Comply Noted.		Date: 19/11/2024
15	MISCELLANEOUS	In pursuant to Ministry's O.M No 22-34/2018-IA.111 dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
PPs Submission: Agreed to Comply Noted.		Date: 19/11/2024
16	MISCELLANEOUS	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
PPs Submission: Agreed to Comply Noted.		Date: 19/11/2024
17	MISCELLANEOUS	Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
PPs Submission: Agreed to Comply Noted.		Date: 19/11/2024
18	WATER QUALITY MONITORING AND PRESERVATION	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
PPs Submission: Agreed to Comply Noted. (A copy of the same was already submitted with the previous compliance report)		Date: 19/11/2024
19	WATER QUALITY MONITORING AND	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid

	PRESERVATION	mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
<p>PPs Submission: Agreed to Comply Noted. During this compliance period, no effluent has been generated because of limited activities. However, the effluent generated from workshop, will be monitored regularly and monitored data will be uploaded/displayed as prescribed.</p>		Date: 19/11/2024
20	WATER QUALITY MONITORING AND PRESERVATION	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&Cc annually.
<p>PPs Submission: Agreed to Comply Noted. Hydrogeological Study including Rain Water Harvesting Plan has been prepared and submitted to CGWA along with the Application for NOC. CGWA NOC has been obtained vide NOC dated 25/09/2021. Since there was no water abstraction during the validity period of NOC, DCBL has applied for validity extension of NOC on 21.06.2023. Extension of NOC validity is granted on 29.02.2024 and valid up to 24.09.2025 (A copy of the same is attached as Annexure-II) Rain water harvesting plan which was submitted to CGWA and will be implemented. Acknowledgement Copies Submitted with previous Compliance report.</p>		Date: 27/11/2024
21	WATER QUALITY MONITORING AND PRESERVATION	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&Cc and State Pollution Control Board/Committee.
<p>PPs Submission: Agreed to Comply Noted.</p>		Date: 19/11/2024
22	Noise Monitoring & Prevention	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
<p>PPs Submission: Agreed to Comply Noted.</p>		Date: 19/11/2024
23	Noise Monitoring & Prevention	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
<p>PPs Submission: Agreed to Comply Noted.</p>		Date: 19/11/2024
24	Noise Monitoring & Prevention	The Project Proponent shall take measures for control of noise

		levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.
PPs Submission: Being Complied Noted and Being complied.		Date: 19/11/2024
25	MINING PLAN	The Project Proponent shall adhere to approved mining plan, inter alia, including total excavation (quantum of mineral, waste, overburden, interburden and top soil etc.); mining technology; lease area; scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as end-of-life; etc.
PPs Submission: Agreed to Comply Noted. Mining operation including total excavation, mining technology; scope of working etc. will be carried out in accordance with the approved mining plan.		Date: 19/11/2024
26	MINING PLAN	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&Cc and its concerned Regional Office.
PPs Submission: Agreed to Comply Noted. Mining operation and reclamation-rehabilitation of mined out area will be carried out in accordance with the approved mining plan.		Date: 19/11/2024
27	LAND RECLAMATION	(1) The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
PPs Submission: Agreed to Comply Noted. There is no dump formation during compliance period. As per the Approved Mining Plan, overburden will be stacked in temporary dump and will be used for backfilling/construction of mine road/crusher ramp. It will be stabilized by proper sloping, benching, grassing etc. The physical parameters of the dumps will be maintained as per the approved Mining Plan and guidelines/circulars issued by D.G.M.S. Top soil will be used in plantation and as topping on the backfilled area for plantation.		Date: 19/11/2024
28	LAND RECLAMATION	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the

		microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
PPs Submission: Agreed to Comply Noted.		Date: 19/11/2024
29	Statutory compliance	The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
PPs Submission: Agreed to Comply Noted		Date: 18/11/2024
30	Statutory compliance	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
PPs Submission: Agreed to Comply Noted		Date: 23/11/2024
31	Statutory compliance	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IAJI (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
PPs Submission: Agreed to Comply Noted.		Date: 18/11/2024
32	Statutory compliance	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
PPs Submission: Complied Complied. (Acknowledgement Copies Submitted with previous Compliance report)		Date: 18/11/2024
33	Statutory compliance	State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
PPs Submission: Complied Complied		Date: 23/11/2024
34	Statutory compliance	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area.

		The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.environmentalclearance.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&Cc Regional Office for compliance and record.
<p>PPs Submission: Complied Complied. A public notice informing about grant of EC has been published in two newspapers named Dainik Jagaran and Navbharat on 4th August 2021 in English as well as in vernacular language i.e. Hindi. Acknowledgement Copies Submitted with previous Compliance report. Newspapers with advertisement have been submitted to the Regional Office of MoEFCC. Acknowledgement Copies Submitted with previous Compliance report</p>		Date: 18/11/2024
35	Statutory compliance	The Project Proponent shall inform the MoEF&Cc for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.
<p>PPs Submission: Agreed to Comply Noted.</p>		Date: 19/11/2024
36	AIR QUALITY MONITORING AND PRESERVATION	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCUI, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
<p>PPs Submission: Agreed to Comply Noted. Currently, the mining operation is limited to initial land development and land purchase. With the start of mining operation at planned capacity, online Ambient Air Quality Monitoring Stations will be established as prescribed to monitor critical parameters relevant for mining operations of air pollution as per the methodology mentioned in NAAQS Notification dated 18.11.2009. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. Monitored data will be displayed in front of the main Gate of the mine site. A copy of AAQ monitoring report is Attached as Annexure-IV.</p>		Date: 19/11/2024
37	AIR QUALITY MONITORING AND PRESERVATION	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment's/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&Cc/ Central Pollution Control Board.

<p>PPs Submission: Agreed to Comply Noted. During operation of the mine, various measures such as regular water sprinkling will be done on haul road, at loading and unloading points and at transfer points will be undertaken to control fugitive dust emissions. Bag filters and automatic water spray system shall be installed at crusher. Air pollution level will be kept within the standard specified by MOEFCC/CPCB. As the mining activities limited to initial land development and not carried out on regular basis. Water tankers for water sprinkling are hired as and when required during development.</p>		<p>Date: 19/11/2024</p>
38	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.</p>
<p>PPs Submission: Agreed to Comply Noted. During this compliance period, no major mining activities have been undertaken, it is limited to mine development only. However, to monitor the water level and quality, a network of existing wells and installation of new piezo-meters will be established in consultation with concerned department prior to ground water abstraction.</p>		<p>Date: 19/11/2024</p>
39	<p>LAND RECLAMATION</p>	<p>Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.</p>
<p>PPs Submission: Agreed to Comply Noted. No dump has been formed during this compliance period.</p>		<p>Date: 19/11/2024</p>
40	<p>LAND RECLAMATION</p>	<p>Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.</p>
<p>PPs Submission: Agreed to Comply Noted.</p>		<p>Date: 19/11/2024</p>
41	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MOEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.</p>

PPs Submission: Agreed to Comply

Noted. Detailed Hydrogeological study have been undertaken by JM Enviro Pvt. Ltd. for Hydrogeological evaluation during grant of EC. Ground water intersection is not anticipated in first 15 years of mining as per the study carried out. Prior NOC will be taken from CGWA for intersection of ground water. However, CGWA NOC has been obtained for ground water abstraction vide NOC dated 25/09/2021. Since, there was no water abstraction during the validity period of NOC, DCBL has applied for validity extension of existing NOC on 21.06.2023. Extension of NOC validity is granted on 29.02.2024 and valid up to 24.09.2025 (A copy of the same is attached as Annexure-II)

Date:
27/11/2024

Visit Remarks

Last Site Visit Report Date:

N/A

Additional Remarks:

1. The land purchased is in small parcels and scattered form.

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.



Photographs showing Plantation in Purchased Land:**Details of Saplings Planted at Pagara-Jhiriya ML area:**

Dalmia Cement Bharat Limited		
Pagara-Jhiriya Limestone Mine		
Sr. No.	Name of Tree	No. of Saplings
1	Amla	20
2	Bahera	20
3	Amrud	10
4	Karanj	300
Total		350



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)

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List of Issued NOC - Online

Project Name:	<input type="text" value="Pagara"/>	Application Number:	<input type="text"/>
State:	<input type="text" value="MADHYA PRADESH"/>	District:	<input type="text" value="SATNA"/>
Sub-District:	<input type="text" value="AMARPATAN"/>	Issue Letter Type :	<input type="text" value="NOC Letter"/>
Application Type:	<input type="text" value="Mining"/>	Application Type Category:	<input type="text" value="Limestone"/>
Captcha Code:	<input type="text" value="sVnnD4"/>		
Enter Code:	<input type="text"/>		

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Sr.No.	Type of Project	Renewal	Project Name	Application Number	Project Address	Date of generation of NOC	Ground water Withdrawal m3/Year	Validity Start Date	Validity End Date	Scan Letter	Digital Signed Letter
1	Mining	New	PAGARA-JHIRIYA LIMESTONE MINE_ML AREA-395.965 HA	21-4/1071/MP/MIN/2020	LOCATED NEAR VILLAGES- PAGRA, JHIRIYA KOTHAR, JHIRIYA BAJPAIEN AND JHIRIYA KOPARIHAN, TEHSIL AMARPATAN, AMARPATAN, SATNA, MADHYA PRADESH	29/02/2024	22500.00	25/09/2023	24/09/2025		



M.P. Pollution Control Board, E-5, Arera Colony, Paryavaran Parisar, Bhopal - 16 MP , Tele : 0755-2466191, Fax-0755-2463742

RED-LARGE	CCA-Renewal	CONSENT NO: ***	PCB ID: 139205
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To, **The Occupier,**
Outward No:119965,04/03/2024
M/s. Dalmia Cement (Bharat) Limited ; Limestone Mines -- 395.965 Hect. **Consent No:AW-59896**
Kh. No. : 1000,1001,1002,1004,238,239,801,802,133,134 etc, Latitude : 24.4534 Longitude : 81.2020
Villages:- Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Pagra , Tehsil:- Amarpatan, Distt:-Satna, (M.P.)

Subject: Grant of Renewal of Consent under section 25 of the Water (Prevention & Control of Pollution) Act,1974 under section 21 of the Air (Prevention & Control of Pollution) Act,1981
Ref: Renewal of Consent Application RNo. 1347180 Dt. 14/02/2024 and last communication received on Dt.27.02.2024

With reference to your above application for Renewal of Consent has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to **31/07/2025**, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

SUBJECT TO THE FOLLOWING CONDITIONS :-

- a. Location: Kh No. : 1000,1001,1002,1004,238,239,801,802,133,134 etc,** Latitude : 24.4534 Longitude : 81.2020
Villages:- Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Pagra Tehsil:- Amarpatan, Distt:-Satna, (M.P.)
- b. Mining Lease area: 395.965 Hact.**
- c. Product & Production Capacity:**

Activity/Product	Qty / year
Mining of Limestone	15,00,000 Metric Ton Per Year

- (1) For any change in above, industry shall obtain fresh consent from the Board.
- (2) PP shall ensure that mining is done in sanctioned lease area as per valid mining plan approved by Regional Controller of Mines IBM Jabalpur for period till 31.03.2025 vide letter No. RMP-26/19-20/258 dated 23.01.2020 & in compliance of the conditions laid in EC granted by MOEFCC vide L. No. J.11015/58/2017-IA.II(M) dated 26.07.2021.
- (3) PP shall ensure that area within 50 meters from kachcha road & within 100 meters from pucca road shall be reserved for development of plantations and demarcation of such area shall be done by the Revenue Officials in presence of Distt. Mining Authorities. PP shall prepare & get approval for the mining plan from the Competent Authority as per the need.
- (4) PP shall ensure that no mining is done within 100 meters of any residential/public buildings, inhabited sites, protected monuments, heritage sites, National/State highways/District Roads, Railway lines/area, ropeways, bridges, dams/ reservoirs or any other water body. Mining between 100 to 200 meters of such structures shall be done without using explosives & if use of explosives is unavoidable it shall be done as per the specific guidelines of the DGMS & Explosives Department of the GOI. The regulations for danger zone (500 meters) prescribed by Directorate General of Mines Safety shall also be complied compulsorily and necessary measures should be taken to minimise the impact on environment.
- (5) Solid waste generated during mining process shall be stacked at earmarked site which shall be properly surrounded by garland drains & settling pits of adequate sizes so that no Soil/Silt/waste rock is discharged outside the mine lease area/ nearby water body blocking the natural flow of any nallah/river/pond. Top Soil / OB dump shall be biologically reclaimed.
- (6) Evacuation of mineral shall not be through any village or forest area. PP shall provide pucca (Concreted/Ashphalted) approach road from main road to the mine site & ensure thick plantation on both side of this road to prevent dust/noise pollution.
- (7) The dust generated during transportation of mineral & deposited on Approach/Haul roads shall be regularly removed by the road sweeping machines & suppressed by intermittent sprinkling of water on roads using pressurized water tankers of adequate capacity. PP shall practice regular compaction of loose material of haulage road & regular water sprinkling shall be done for control of generated fugitive emissions. Main haulage Road shall be provided with mist forming permanent water sprinklers on both sides to ensure control of dust during mineral transportation.

The Validity of the consent is up to **31/07/2025** and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

Enclosures:-

*** Conditions under Water Act* Conditions under Air Act* General conditions**

CC to :-

- 1. District Mining Officer, (Mining Section), Collector office, Satna Dist. Satna (M.P.) for information.
- 2. M.P. State Mining Corporation, Arera Hills, Jail Road, Bhopal (M.P.) for necessary action please.
- 3. Regional officer, Regional office, MPPCB, Satna (M.P.)

By the order of Chairman, MPPCB

Signature Not Verified
 Digitally Signed by : Chandra Mohan Thakur,IAS
 Date: 04/03/2024 03:44:11 PM

CHANDRA MOHAN THAKUR
 Member Secretary



(Organic Authentication on AADHAR from UIDAI Server)
 TPAV # 77542T3XWB



CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. Quantity of trade effluent shall not exceed 9.000 KL/day, and the quantity of sewage shall not exceed 3.000 KL/day.

2. Trade Effluent Treatment:-

The applicant shall operate and maintain effluent treatment system as per the proposal submitted to the Board and maintain the same properly to achieve following standards-

pH	Between	5.5 – 9.0	TDS	Not exceed	2100 mg/l.
Suspended Solids	Not exceed	100 mg/l.	Chlorides	Not exceed	1000 mg/l.
BOD ₃ Days 27 °C	Not exceed	30 mg/l.			
COD	Not exceed	250 mg/l.			
Oil and grease	Not exceed	10 mg/l.			

For other parameters general standards of discharge as notified under EP Act 1986 shall be applicable.

3. Sewage Treatment :- The applicant shall operate and maintain sewage treatment facility to achieve following standards-

pH	Between	5.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD 3 Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
fecal coliform	Not exceed	1000 MPN/100 ml

Sr	Water Code (Qty in klpd - Kilo Ltr per Day)	WC : 75.000	WWG : 12.00	Water Source	Remark
1	Domestic Purpose	5.000	3.000	Borewell	Treated water will be used in plantation.
2	Dust Suppression	25.000	0.000	Mine Water	Dust suppression will be done to control fugitive emission
3	Workshop / process ..	10.000	9.000	Mine Water	Workshop-Waste water will be used for Dust Suppression after treatment in oil & grease trap.
4	Plantation / Horticulture	35.000	0.000	Mine Water	Plantation will be done in statutory barrier along ML boundary & haul road and on backfilled area.

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

5. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board

6. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent

7. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

8. Compilation of Monitoring data-

i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.

ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.

iii. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.

Consent No:AW-59896



9. Recording of Monitoring Activities & Results-

- i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.
- ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:
 - (i) The date, exact place and time of sampling
 - (ii) The dates on which analysis were performed
 - (iii) Who performed the analysis?
 - (iv) The analytical techniques or methods used and
 - (v) The result of all required analysis
- iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.
- iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

10. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

11. Limitation of discharge of oil Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

12. Limitation of visible floating solids and foam:

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

13. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludge, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

14. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

15. Prohibition of Bypass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except:

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

16. Industry/Institute/mine management shall submit the information online through XGN in reference to compliance of consent conditions.

17. Mine management shall ensure to prevent the flow of silt in to the nearby water body.

18. Mine shall treat the mine water to such an extent that it should meet the quality of water source for different beneficial uses.

19. Mine management shall provided toilets for the labourers.



CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall operate and maintain air pollution control system to achieve the level of pollutants to the following standards:-

Name of section	Capacity	Control equipment to be installed	SPM/RSPM/SO ₂ /NO _x (Time weighted Average)* (µg/Nm ³)
Loading-unloading, Haul road, Transportation etc,	Fugitive Emission	Dust Collector, Dust Suppressor, Green Belt, Water Sprinkler, Wind Breaking Wall,	Annual average : 430 / 215/80/80 24 hour average : 600/300/120/120

2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis: The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated:

16/11/09. Some of the parameters are as follows:

- Particulate Matter (less than 10 micron) - 100 µg/m³ (PM10 µg/m³ 24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60 µg/m³ (PM2.5 µg/m³ 24 hrs. basis)
- Sulphur Dioxide [SO₂] (24 hrs. Basis) - 80 µg/m³
- Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 µg/m³
- Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m³

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.

5. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.

6. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises

7. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

8. Industry shall take effective steps for extensive tree plantation preferably in 03 rows of the local tree species with minimum spacing of 2X2 meters within or around the industry/unit premises for general improvement of environmental conditions and as stated in below.

9. Mine management shall demarcate a barrier zone of 7.50 meter towards forest boundary as no mining zone and developed as green belt around the periphery.

10 Mine management shall install CAAQMS stations at suitable locations to monitor ambient air quality in the leased area and in the vicinity. The mine management shall provide suitable connectivity of CAAQMS with Environment Surveillance Centre at the HQ of M.P. Pollution Control Board for monitoring and data transmission purpose.

11 Major approach roads and haul roads shall be metal topped.

12. Transportation of material shall be through Belt conveyor system duly covered and equipped with water sprinkling system.

13. Crushers and material transfer points shall be provided with Bag filter or dry fogging system.

14. Drills shall be wet operated to reduce the fugitive emission.

15. Mining area should be surrounded by green belt having thick canopy of the tree cover.

16. Progressive afforestation plan shall be implemented at the end of mining, which include reclaimed external OB dump area, internal OB dump area and green belt and in township located outside the lease.

17. Sufficient number of water tanker for water sprinkling shall be provided for the control of fugitive emission from road transportation.

18 The vehicle used for the transportation of minerals / material shall be PU certified and shall be properly maintained to reduce the noise.



GENERAL CONDITIONS:

1. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrap/ Plastic packing material wood, card board, gunny bogs etc		Sale to authorized party/As Per CPCB. MoEF Guide lines / Others.

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

- To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- To sample at reasonable times any discharge or pollutants.

3. This consent / authorisation is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.

6. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

7. The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the date of expiration of this consent/authorisation

8. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

9. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :

- Violation of any terms and conditions of this Consent.
- Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
- A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

10. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

Additional condition:-

1. Mine management shall provide munare of cement structure to show the lease boundary along with the geographical location in latitude and longitude.

2. The Mine shall optimize the water abstraction from the surface water source by utilizing the mine discharge for spraying on haul roads, mine area and loading - unloading area after proper treatment.

3. Adequate & effective precautionary measures shall be taken before and during operation, maintenance and cleaning of pollution control system to avoid any accidental hazard.

4. Extensive tree plantation shall be carried out in open areas available within and around the mine premises in consultation with expert agency. Good housekeeping practice shall be adopted.

Consent No:AW-59896



Consent Order



M.P. Pollution Control Board, E-5, Arera Colony, Paryavaran Parisar, Bhopal - 16 MP , Tele :
0755-2466191, Fax-0755-2463742

5. Overburden dumps shall be stored at the earmarked location along with proper stabilization arrangements and retaining wall. The maximum height of the dump shall not exceed 8 m and width 20 meters, and overall slope shall not exceed 45°. Mine shall have to take effective steps to check the soil erosion from over burden/waste material dumping area, causing silting problem into nearby nallah/ river/ pond during the rainy season.
6. The Over Burden dumps shall be backfilled and scientifically vegetated with suitable native species to prevent erosion and surface runoff. Care of gullies formed on slopes should be taken properly.
7. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt, sediment flow from soil, OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies.
8. Mine Management shall construct Garland drain of appropriate size, gradient and length and sump capacity shall be designed keeping 50% safely margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. The garland drain shall be stone pitched / lined to prevent the soil erosion. 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 de-silted at regular intervals.
9. Top soil shall be scraped & separately stacked with proper slope and adequate safeguards; it shall be utilized for carpeting over the backfilled area and rehabilitation of mined out area.
10. Controlled blasting should be practiced with the use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented. Blasting shall be done during day time only.
11. Mine management shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.
12. Mine shall ensure compliance of all the conditions mentioned in Environmental Clearance order.
13. Mine shall comply with the provisions of all the relevant Acts/Rules/Directions/Guidelines issued by MoEF/ CPCB/ MPPCB time to time as required and if applicable
14. Mine shall comply with the Directions/ Orders issued by Hon'ble Supreme Court/ High Court/ NGT time to time in the relevant Writ Petitions.
15. Mine management shall install industrial grade HD IP (Internet Protocol) Pan-Tilt-Zoom (PTZ) Camera with minimum 5X zoom and night vision facility for remote surveillance and constant vigil of emission source.
16. Mine management shall establish suitable connectivity of IP-Camera with Environment Surveillance Centre at the HQ of M.P. Pollution Control Board for monitoring and data transmission purpose.

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act, 1974 , The Air (Prevention & Control of Pollution) Act,1981 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorisation. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

For and on behalf of
M.P. Pollution Control Board

By the order of Chairman, MPPCB

CHANDRA MOHAN THAKUR
Member Secretary



(Organic Authentication on AADHAR from UIDAI Server)
TPAV # 77542T3XWB

Consent No:AW-59896

Advanced Environmental Testing And Research Lab P. Ltd.



CIN : U73100MP2002PTC015352

GSTIN : 23AAECA9188L1Z8

Approved : by Occupational Health & Safety Management (ISO 45001:2018)

Approved : by National Accreditation Board for Testing and Calibration Laboratories

Approved : by Ministry of Environment, Forest and Climate Change (MOEF&CC)

Registered office: 63/1 Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011 M.P., India

Ph.: 0751 - 311 1424, 223 2177

Email. aelgwallor@gmail.com, aetrlgwallor@gmail.com, aetrlcenter@gmail.com, aetrl2016@gmail.com, www.aetrl.com



TEST REPORT (Water)

Report No: AETRL/070924W0003

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhriya Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/070924W0003
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Pagra (SGWS2)	Party Ref. No	NA
Sampling Date	04.09.2024	Receipt Date	07.09.2024
Sampling & Analysis Period	07.09.2024 to 14.09.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	PH, Turbidity, EC, TDS, TS, Total Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Calcium, Magnesium, Chloride, Sulphate, Nitrate, Iron, Fluoride, COD, BOD, DO, Oil & Grease, Total Chromium	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	pH	-	IS : 3025 (Part-11)	7.69	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	636.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	BDL<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	400.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	420.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	340.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	462.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	312.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	150.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	124.9	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	36.4	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	25.8	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	88.8	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	12.4	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.29	0.3	No Relaxation
16	Fluoride	mg/l	IS : 3025 (Part-60)	1.0	1.0	1.5
17	COD	mg/l	IS : 3025 (Part-58)	BDL<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	BDL<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	3.6	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	BDL<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	BDL<0.003	0.05	No Relaxation

BDL = Below Detection Limit,

****End of the Report****

Checked by:

Note.

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- The sample will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
- Any discrepancy in test result should be reported within 15 Days.
- The results relate to the item sampled and tested.



Authorized Signatory:



ISO 9001:2015 CERTIFIED
 ISO 17025:2017 CERTIFIED
 The Laboratory is established & operates in accordance with the ISO 9001:2015 and ISO 17025:2017 standards. The Laboratory is committed to providing high quality services to its customers.



Sl. No.	Sample Description	Tested Parameters	Remarks
1	Water Sample	pH, TDS, Hardness, Chloride, Sulfate, Calcium, Magnesium, Iron, Manganese, Nitrate, Nitrite, Ammonia, Copper, Lead, Cadmium, Zinc, Barium, Strontium, Selenium, Molybdenum, Vanadium, Chromium, Manganese, Cobalt, Nickel, Silver, Gold, Platinum, Palladium, Iridium, Rhodium, Rhenium, Osmium, Antimony, Bismuth, Tellurium, Polonium, Astatine, Francium, Actinium, Thorium, Protactinium, Uranium, Neptunium, Plutonium, Americium, Curium, Berkelium, Californium, Einsteinium, Fermium, Mendelevium, Nobelium, Lawrencium, Rutherfordium, Dubnium, Seaborgium, Bohrium, Hassium, Meitnerium, Darmstadtium, Roentgenium, Copernicium, Nihonium, Flerovium, Oganesson	
2	Soil Sample	pH, Moisture, Organic Carbon, Total Nitrogen, Total Phosphorus, Total Sulfur, Total Chlorine, Total Fluorine, Total Bromine, Total Iodine, Total Selenium, Total Molybdenum, Total Vanadium, Total Chromium, Total Manganese, Total Cobalt, Total Nickel, Total Silver, Total Gold, Total Platinum, Total Palladium, Total Iridium, Total Rhodium, Total Rhenium, Total Osmium, Total Antimony, Total Bismuth, Total Tellurium, Total Polonium, Total Astatine, Total Francium, Total Actinium, Total Thorium, Total Protactinium, Total Uranium, Total Neptunium, Total Plutonium, Total Americium, Total Curium, Total Berkelium, Total Californium, Total Einsteinium, Total Fermium, Total Mendelevium, Total Nobelium, Total Lawrencium, Total Rutherfordium, Total Dubnium, Total Seaborgium, Total Bohrium, Total Hassium, Total Meitnerium, Total Darmstadtium, Total Roentgenium, Total Copernicium, Total Nihonium, Total Flerovium, Total Oganesson	
3	Air Sample	PM10, PM2.5, PM1, TSP, SO2, NO2, CO, O3, H2S, NH3, HCN, HCl, HF, HBr, HI, HNO3, H2SO4, H2CO3, H2O2, H2O, CH4, C2H6, C3H8, C4H10, C5H12, C6H14, C7H16, C8H18, C9H20, C10H22, C11H24, C12H26, C13H28, C14H30, C15H32, C16H34, C17H36, C18H38, C19H40, C20H42, C21H44, C22H46, C23H48, C24H50, C25H52, C26H54, C27H56, C28H58, C29H60, C30H62, C31H64, C32H66, C33H68, C34H70, C35H72, C36H74, C37H76, C38H78, C39H80, C40H82, C41H84, C42H86, C43H88, C44H90, C45H92, C46H94, C47H96, C48H98, C49H100, C50H102, C51H104, C52H106, C53H108, C54H110, C55H112, C56H114, C57H116, C58H118, C59H120, C60H122, C61H124, C62H126, C63H128, C64H130, C65H132, C66H134, C67H136, C68H138, C69H140, C70H142, C71H144, C72H146, C73H148, C74H150, C75H152, C76H154, C77H156, C78H158, C79H160, C80H162, C81H164, C82H166, C83H168, C84H170, C85H172, C86H174, C87H176, C88H178, C89H180, C90H182, C91H184, C92H186, C93H188, C94H190, C95H192, C96H194, C97H196, C98H198, C99H200, C100H202	
4	Food Sample	Moisture, Ash, Protein, Fat, Carbohydrate, Fiber, Total Solids, Total Soluble Solids, Total Dissolved Solids, Total Suspended Solids, pH, Acidity, Total Acid, Free Acid, Total Alkalinity, Free Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Chloride, Sulfate, Nitrate, Nitrite, Ammonia, Copper, Lead, Cadmium, Zinc, Barium, Strontium, Selenium, Molybdenum, Vanadium, Chromium, Manganese, Cobalt, Nickel, Silver, Gold, Platinum, Palladium, Iridium, Rhodium, Rhenium, Osmium, Antimony, Bismuth, Tellurium, Polonium, Astatine, Francium, Actinium, Thorium, Protactinium, Uranium, Neptunium, Plutonium, Americium, Curium, Berkelium, Californium, Einsteinium, Fermium, Mendelevium, Nobelium, Lawrencium, Rutherfordium, Dubnium, Seaborgium, Bohrium, Hassium, Meitnerium, Darmstadtium, Roentgenium, Copernicium, Nihonium, Flerovium, Oganesson	
5	Waste Sample	Moisture, Ash, Protein, Fat, Carbohydrate, Fiber, Total Solids, Total Soluble Solids, Total Dissolved Solids, Total Suspended Solids, pH, Acidity, Total Acid, Free Acid, Total Alkalinity, Free Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Chloride, Sulfate, Nitrate, Nitrite, Ammonia, Copper, Lead, Cadmium, Zinc, Barium, Strontium, Selenium, Molybdenum, Vanadium, Chromium, Manganese, Cobalt, Nickel, Silver, Gold, Platinum, Palladium, Iridium, Rhodium, Rhenium, Osmium, Antimony, Bismuth, Tellurium, Polonium, Astatine, Francium, Actinium, Thorium, Protactinium, Uranium, Neptunium, Plutonium, Americium, Curium, Berkelium, Californium, Einsteinium, Fermium, Mendelevium, Nobelium, Lawrencium, Rutherfordium, Dubnium, Seaborgium, Bohrium, Hassium, Meitnerium, Darmstadtium, Roentgenium, Copernicium, Nihonium, Flerovium, Oganesson	

Sl. No.	Sample Description	Tested Parameters	Remarks
1	Water Sample	pH, TDS, Hardness, Chloride, Sulfate, Calcium, Magnesium, Iron, Manganese, Nitrate, Nitrite, Ammonia, Copper, Lead, Cadmium, Zinc, Barium, Strontium, Selenium, Molybdenum, Vanadium, Chromium, Manganese, Cobalt, Nickel, Silver, Gold, Platinum, Palladium, Iridium, Rhodium, Rhenium, Osmium, Antimony, Bismuth, Tellurium, Polonium, Astatine, Francium, Actinium, Thorium, Protactinium, Uranium, Neptunium, Plutonium, Americium, Curium, Berkelium, Californium, Einsteinium, Fermium, Mendelevium, Nobelium, Lawrencium, Rutherfordium, Dubnium, Seaborgium, Bohrium, Hassium, Meitnerium, Darmstadtium, Roentgenium, Copernicium, Nihonium, Flerovium, Oganesson	
2	Soil Sample	pH, Moisture, Organic Carbon, Total Nitrogen, Total Phosphorus, Total Sulfur, Total Chlorine, Total Fluorine, Total Bromine, Total Iodine, Total Selenium, Total Molybdenum, Total Vanadium, Total Chromium, Total Manganese, Total Cobalt, Total Nickel, Total Silver, Total Gold, Total Platinum, Total Palladium, Total Iridium, Total Rhodium, Total Rhenium, Total Osmium, Total Antimony, Total Bismuth, Total Tellurium, Total Polonium, Total Astatine, Total Francium, Total Actinium, Total Thorium, Total Protactinium, Total Uranium, Total Neptunium, Total Plutonium, Total Americium, Total Curium, Total Berkelium, Total Californium, Total Einsteinium, Total Fermium, Total Mendelevium, Total Nobelium, Total Lawrencium, Total Rutherfordium, Total Dubnium, Total Seaborgium, Total Bohrium, Total Hassium, Total Meitnerium, Total Darmstadtium, Total Roentgenium, Total Copernicium, Total Nihonium, Total Flerovium, Total Oganesson	
3	Air Sample	PM10, PM2.5, PM1, TSP, SO2, NO2, CO, O3, H2S, NH3, HCN, HCl, HF, HBr, HI, HNO3, H2SO4, H2CO3, H2O2, H2O, CH4, C2H6, C3H8, C4H10, C5H12, C6H14, C7H16, C8H18, C9H20, C10H22, C11H24, C12H26, C13H28, C14H30, C15H32, C16H34, C17H36, C18H38, C19H40, C20H42, C21H44, C22H46, C23H48, C24H50, C25H52, C26H54, C27H56, C28H58, C29H60, C30H62, C31H64, C32H66, C33H68, C34H70, C35H72, C36H74, C37H76, C38H78, C39H80, C40H82, C41H84, C42H86, C43H88, C44H90, C45H92, C46H94, C47H96, C48H98, C49H100, C50H102, C51H104, C52H106, C53H108, C54H110, C55H112, C56H114, C57H116, C58H118, C59H120, C60H122, C61H124, C62H126, C63H128, C64H130, C65H132, C66H134, C67H136, C68H138, C69H140, C70H142, C71H144, C72H146, C73H148, C74H150, C75H152, C76H154, C77H156, C78H158, C79H160, C80H162, C81H164, C82H166, C83H168, C84H170, C85H172, C86H174, C87H176, C88H178, C89H180, C90H182, C91H184, C92H186, C93H188, C94H190, C95H192, C96H194, C97H196, C98H198, C99H200, C100H202	
4	Food Sample	Moisture, Ash, Protein, Fat, Carbohydrate, Fiber, Total Solids, Total Soluble Solids, Total Dissolved Solids, Total Suspended Solids, pH, Acidity, Total Acid, Free Acid, Total Alkalinity, Free Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Chloride, Sulfate, Nitrate, Nitrite, Ammonia, Copper, Lead, Cadmium, Zinc, Barium, Strontium, Selenium, Molybdenum, Vanadium, Chromium, Manganese, Cobalt, Nickel, Silver, Gold, Platinum, Palladium, Iridium, Rhodium, Rhenium, Osmium, Antimony, Bismuth, Tellurium, Polonium, Astatine, Francium, Actinium, Thorium, Protactinium, Uranium, Neptunium, Plutonium, Americium, Curium, Berkelium, Californium, Einsteinium, Fermium, Mendelevium, Nobelium, Lawrencium, Rutherfordium, Dubnium, Seaborgium, Bohrium, Hassium, Meitnerium, Darmstadtium, Roentgenium, Copernicium, Nihonium, Flerovium, Oganesson	
5	Waste Sample	Moisture, Ash, Protein, Fat, Carbohydrate, Fiber, Total Solids, Total Soluble Solids, Total Dissolved Solids, Total Suspended Solids, pH, Acidity, Total Acid, Free Acid, Total Alkalinity, Free Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Chloride, Sulfate, Nitrate, Nitrite, Ammonia, Copper, Lead, Cadmium, Zinc, Barium, Strontium, Selenium, Molybdenum, Vanadium, Chromium, Manganese, Cobalt, Nickel, Silver, Gold, Platinum, Palladium, Iridium, Rhodium, Rhenium, Osmium, Antimony, Bismuth, Tellurium, Polonium, Astatine, Francium, Actinium, Thorium, Protactinium, Uranium, Neptunium, Plutonium, Americium, Curium, Berkelium, Californium, Einsteinium, Fermium, Mendelevium, Nobelium, Lawrencium, Rutherfordium, Dubnium, Seaborgium, Bohrium, Hassium, Meitnerium, Darmstadtium, Roentgenium, Copernicium, Nihonium, Flerovium, Oganesson	

Note:

- 1 : Total liability of our laboratory is limited to the invoiced amount; No liability will be accepted after the sample is taken back.
- 2 : The result listed refers only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
- 3 : Sample Description is not verified in all cases and is given "As Described" by customers. Sample not drawn by us and Analysis conducted on "As received basis" unless specified otherwise.
- 4 : Sample disposed after suitable retaining period.
 (A) Perishable items - Immediately after reporting.
 (B) Water Sample - after one week of reporting.
 (C) Non - Perishable item - after four weeks of reporting.
5. Any complaints about this report should be communicated in writing within 7 days of issue of this report.
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- 9 : Declaration : The Results represent only the samples received by the Laboratory.



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Approved: by Occupational Health & Safety Management (ISO45001:2018)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II,
Gwalior-474 011, M.P., India

☎ 0751-3566867, 2232177

Email: aelgwalior@gmail.com, aetrlcenter@gmail.com

Web: aetrl.com



TEST REPORT (Water)

Report AETRL/070924W0003

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara Jhiriya Limestone Mine), Rampur Baghelan, Satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/070924W0003
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Pagra (SGWS2)	Party Ref. No	NA
Sampling Date	04.09.2024	Receipt Date	07.09.2024
Sampling & Analysis Period	07.09.2024 to 14.09.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate, Zinc, Coliform	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	Phosphate	mg/l	IS : 3025 (Part-11)	BDL<5.0	-	-
2	Zinc	mg/l	IS : 3025 (Part-49)	BDL<5.0	5	15
3	Total Coliform	MPN/100ml	IS : 1622 :1981	Absent	Absent	Absent

BDL = Below Detection Limit,

Checked by:

Note.

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2. The sample will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
3. Any discrepancy in test result should be reported within 15 Days.
4. The results relate to the item sampled and tested.



Authorized Signatory:

Note:

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- 2 : The result listed refers only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
- 3 : Sample Description is not verified in all cases and is given "As Described" by customers. Sample not drawn by us and Analysis conducted on "As received basis" unless specified otherwise.
- 4 : Sample disposed after suitable retaining period.
 - (A) Perishable items - Immediately after reporting.
 - (B) Water Sample - after one week of reporting.
 - (C) Non - Perishable item - after four weeks of reporting.
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8. : The test marked with an *are not accredited by NABL scope/**are not accredited by MOEF&CC scope.
9. : Declaration : The Results represent only the samples received by the Laboratory.

Advanced Environmental Testing And Research Lab P. Ltd.



CIN : U73100MP2002PTC015352

GSTIN : 23AAECA9188L1Z8

Approved : by Occupational Health & Safety Management (ISO 45001:2018)

Approved : by National Accreditation Board for Testing and Calibration Laboratories

Approved : by Ministry of Environment, Forest and Climate Change (MOEF&CC)

Registered office: 63/1 Kailash Vihar, Near Income Tax Office, City Center -II

Gwalior-474 011 M.P., India

Ph.: 0751 - 311 1424, 223 2177

Email. aelgwalior@gmail.com, aetrlgwalior@gmail.com, aetrlcenter@gmail.com, aetrl2016@gmail.com, www.aetrl.com



TEST REPORT (Water)

Report No: AETRL/070924W0001

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhiriya Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/070924W0002
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine site (SGWS1)	Party Ref. No	NA
Sampling Date	04.09.2024	Receipt Date	07.09.2024
Sampling & Analysis Period	07.09.2024 to 14.09.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	PH, Turbidity, EC, TDS, TS, Total Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Calcium, Magnesium, Chloride, Sulphate, Nitrate, Iron, Fluoride, COD, BOD, DO, Oil & Grease, Total Chromium	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	pH	-	IS : 3025 (Part-11)	7.68	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	615.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	BDL<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	380.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	400.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	350.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	412.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	292.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	120.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	116.8	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	29.1	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	25.8	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	78.4	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	11.2	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.29	0.3	No Relaxation
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.9	1.0	1.5
17	COD	mg/l	IS : 3025 (Part-58)	BDL<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	BDL<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	4.2	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	BDL<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	BDL<0.003	0.05	No Relaxation

BDL = Below Detection Limit,

****End of the Report****



[Signature]
Authorized Signatory:

[Signature]
Checked by:

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APPROVED BY THE GOVERNMENT OF INDIA
 MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
 LABORATORY NO. 1001/2017
 (WATER ANALYSIS)
 LABORATORY NO. 1002/2017
 (WATER ANALYSIS)



Sl. No.	Sample Name	Sample Description	Sample No.	Date of Receipt	Date of Report	Remarks

Sl. No.	Sample Name	Sample Description	Sample No.	Date of Receipt	Date of Report	Remarks

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CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
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Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II,
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☎ 0751-3566867, 2232177

Email: aelgwalior@gmail.com, aetrlcenter@gmail.com

Web: aetrl.com



TEST REPORT (Water)

Report No: AETRL/070924W0002

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara Jhriya Limestone Mine), Rampur Baghelan, Satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/070924W0002
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine site (SGWS1)	Party Ref. No	NA
Sampling Date	04.09.2024	Receipt Date	07.09.2024
Sampling & Analysis Period	07.09.2024 to 14.09.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate, Zinc, Coliform	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	Phosphate	mg/l	IS : 3025 (Part-11)	BDL<5.0	-	-
2	Zinc	mg/l	IS : 3025 (Part-49)	BDL<5.0	5	15
3	Total Coliform	MPN/100ml	IS : 1622 :1981	Absent	Absent	Absent

BDL = Below Detection Limit,

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Advanced Environmental Testing And Research Lab P. Ltd.



CIN : U73100MP2002PTC015352

GSTIN : 23AAECA9188L1Z8

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Approved : by National Accreditation Board for Testing and Calibration Laboratories

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Ph.: 0751 - 311 1424, 223 2177

Email: aelgwalior@gmail.com, aetrlgwalior@gmail.com, aetrlcenter@gmail.com, aetrl2016@gmail.com, www.aetrl.com



TEST REPORT (Surface Water)

Report No : AETRL/090924W00015

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/090924W00015
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine Pit	Party Ref. No	NA
Sampling Date	04.09.2024	Receipt Date	07.09.2024
Sampling & Analysis Period	07.09.2024 to 14.09.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	PH, Turbidity, TDS, TS, Total Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Calcium, Magnesium, Chloride, Sulphate, Nitrate, Iron, Fluoride, COD, BOD, DO, Oil & Grease, Total Chromium	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result
1	pH	-	IS : 3025 (Part-11)	7.71
2	Conductivity	µS/cm	IS : 3025 (Part-14)	712.0
3	Turbidity	NTU	IS : 3025 (Part-10)	3.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	440.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	460.0
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	235.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	282.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	198.0
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	84.0
10	Calcium	mg/l	IS : 3025 (Part-40)	79.2
11	Magnesium	mg/l	IS : 3025 (Part-46)	20.3
12	Chloride	mg/l	IS : 3025 (Part-32)	21.4
13	Sulphate	mg/l	IS : 3025 (Part-24)	56.2
14	Nitrate	mg/l	IS : 3025 (Part-34)	7.2
15	Iron	mg/l	IS : 3025 (Part-53)	0.05
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.7
17	COD	mg/l	IS : 3025 (Part-58)	28.0
18	BOD	mg/l	IS : 3025 (Part-44)	5.2
19	DO	mg/l	IS : 3025 (Part-38)	4.4
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	3.6
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	0.14

****End of the Report****

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Authorized Signatory:



Advanced Environmental Testing And Research Lab P. Ltd
 10/10, Sector 10, Gurgaon, Haryana
 Phone: 01299-421000, 01299-421001
 Email: info@advancedlab.com

Sl. No.	Sample Description	Parameter	Method	Result	Remarks
1	Water Sample	pH	7.5	7.5	
2	Water Sample	Temperature	25°C	25°C	
3	Water Sample	Dissolved Oxygen	8.5 mg/L	8.5 mg/L	
4	Water Sample	Hardness	150 mg/L	150 mg/L	
5	Water Sample	Chloride	10 mg/L	10 mg/L	
6	Water Sample	Sulfate	10 mg/L	10 mg/L	
7	Water Sample	Total Solids	100 mg/L	100 mg/L	

Sl. No.	Sample Description	Parameter	Method	Result	Remarks
8	Water Sample	Calcium	100 mg/L	100 mg/L	
9	Water Sample	Magnesium	50 mg/L	50 mg/L	
10	Water Sample	Total Hardness	150 mg/L	150 mg/L	
11	Water Sample	Calcium Chloride	10 mg/L	10 mg/L	
12	Water Sample	Magnesium Chloride	10 mg/L	10 mg/L	
13	Water Sample	Calcium Sulfate	10 mg/L	10 mg/L	
14	Water Sample	Magnesium Sulfate	10 mg/L	10 mg/L	
15	Water Sample	Total Chloride	10 mg/L	10 mg/L	
16	Water Sample	Total Sulfate	10 mg/L	10 mg/L	
17	Water Sample	Total Solids	100 mg/L	100 mg/L	
18	Water Sample	Calcium	100 mg/L	100 mg/L	
19	Water Sample	Magnesium	50 mg/L	50 mg/L	
20	Water Sample	Total Hardness	150 mg/L	150 mg/L	

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GSTIN: 23AAECA9188L1Z8

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Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II,
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Email: aelgwalior@gmail.com, aetrcenter@gmail.com

Web: aetri.com



TEST REPORT (Surface Water)

Report No: AETRL/070924W00015

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/070924W00015
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine Pit	Party Ref. No	NA
Sampling Date	04.09.2024	Receipt Date	07.09.2024
Sampling & Analysis Period	07.09.2024 to 14.09.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate , Zinc, Coliform	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result
1	Phosphate	mg/l	IS : 3025 (Part-11)	5.2
2	Zinc	mg/l	IS : 3025 (Part-49)	BDL<5.0
3	Total Coliform	MPN/100ml	IS : 1622 :1981	1000.0

BDL = Below Detection Limit,



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TEST REPORT (Soil)

Report No AETRL/070924S0003

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/070924S0003
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine Pit	Party Ref. No	NA
Sampling Date	05.09.2024	Receipt Date	07.09.2024
Sampling & Analysis Period	07.09.2024 to 14.09.2024	Latitude	-
Type of Sampling	Composite	Longitude	
Sample Quantity	01 Kg	Preservation	Yes
Parameter Required	pH, EC, Organic matter , Phosphorous , Potassium	Protocol Used	IS:2720(Part-1) 1983

RESULTS

S. No.	Parameters	Unit	Test Method	Results
1	pH	-	IS : 2720 (Part -26)	7.91
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.451
3	Organic matter	%	IS : 2720 (Part -22)	1.581
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	17.5
5	Potassium	mg/kg	IS : 9497 :2005	9.6



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Subject to terms & Condition Overleaf

Advanced Environmental Testing And Research Lab P. Ltd



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 APPROVED BY MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, GOVT. OF INDIA
 APPROVED BY NATIONAL BUREAU OF STANDARDS (NABL) (ISO 9001:2015)
 APPROVED BY NATIONAL BUREAU OF STANDARDS (NABL) (ISO 14001:2015)



Sl. No.	Sample Description	Parameters	Remarks

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TEST REPORT (Soil)

Report No: AETRKL/070924S0003

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRKL/070924S0003
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine Pit	Party Ref. No	NA
Sampling Date	05.09.2024	Receipt Date	07.09.2024
Sampling & Analysis Period	07.09.2024 to 14.09.2024	Latitude	-
Type of Sampling	Composite	Longitude	
Sample Quantity	01 Kg	Preservation	Yes
Parameter Required	Particle Distribution , Water Holding Capacity, Free Ammonical Nitrogen, Cu, Pb, Cd, Cr6+	Protocol Used	IS:2720(Part-1) 1983

RESULTS

S. No.	Parameters	Unit	Test Method	Results
1	Particle Distribution	mm	IS : 2720 (Part 4)	2.0
2	Water Holding Capacity	%	IS : 14765 : 2000	27.4
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	28.0
4	Copper	mg/kg	IS : 440 :1964	BDL<0.1
5	Lead	mg/kg	IS : 440 :1964	BDL<0.1
6	Cadmium	mg/kg	GECRC/SOIL/TP/14	BDL<0.05
7	Hexavalent Chromium	mg/kg	GECRC/SOIL/TP/13	BDL<0.01

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TEST REPORT (Fugitive Emission)

Report No.: AETRL/070924G0004

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Fugitive Emission
		Sample Number	AETRL/070924G0004
Sample Collected by (Name & Designation)	Sampling Staff	Format No.	7.5 F-02
Sampling Location	Village Bela (Transportation Point)	Party Ref. No	-
Date of Monitoring	02.09.2024	Receipt Date	07.09.2024
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	34
Surrounding activity	Human, Vehicle Activates	Meteorological Condition	Clear Sky
Parameter Required	SPM	Control measure if any	No Any
Instrument Used	RDS	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GECRC/EQP/25		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	141.1	µg/m ³	600.0

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]

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Advanced Environmental Testing And Research Lab P. Ltd.



CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Approved: by Occupational Health Safety Management (ISO 45001:2018)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India

☎0751-4099916 2232177

Email: aetrcenter@gmail.com, ailgwalior@gmail.com

TEST REPORT (Fugitive Emission)

Report No. AETRL/070924G0003

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Fugitive Emission
		Sample Number	AETRL/070924G0003
Sample Collected by (Name & Designation)	Sampling Staff	Format No.	7.5 F-02
Sampling Location	Bela near Highway(Satna to Rewa) (Transportation Point)	Party Ref. No	-
Date of Monitoring	02.09.2024	Receipt Date	07.09.2024
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	34
Surrounding activity	Human, Vehicle Activates	Meteorological Condition	Clear Sky
Parameter Required	SPM	Control measure if any	No Any
Instrument Used	RDS	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GEERC/EQP/24		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	140.0	µg/m ³	600.0

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]

Checked by:

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4. The results relate to the item sampled and tested.

Authorized Signatory:

Advanced Environmental Testing And Research Lab P. Ltd.



CIN : U73100MP2002PTC015352

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TEST REPORT (Noise Quality)

Report No.: AETRL/070924N0010

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924N0010
Sampling Location	Pagra mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	02.09.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453087°
Instrument Used	Noise Meter	Longitude	81.202935°
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	34
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	44.6	-	IS:9989-1981
2.	L _{max}	dB(A)	66.9	85 dB(A)	IS:9989-1981

Checked by:
Note.



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TEST REPORT
(Paper Quality)

Sl. No.	Parameter	Method	Result	Remarks
1	Moisture Content	IS 1156	12.5%	
2	Free Water	IS 1156	0.5%	
3	Free Water	IS 1156	0.5%	
4	Free Water	IS 1156	0.5%	
5	Free Water	IS 1156	0.5%	
6	Free Water	IS 1156	0.5%	
7	Free Water	IS 1156	0.5%	
8	Free Water	IS 1156	0.5%	
9	Free Water	IS 1156	0.5%	
10	Free Water	IS 1156	0.5%	

Sl. No.	Parameter	Method	Result	Remarks
1	Moisture Content	IS 1156	12.5%	
2	Free Water	IS 1156	0.5%	
3	Free Water	IS 1156	0.5%	
4	Free Water	IS 1156	0.5%	
5	Free Water	IS 1156	0.5%	
6	Free Water	IS 1156	0.5%	
7	Free Water	IS 1156	0.5%	
8	Free Water	IS 1156	0.5%	
9	Free Water	IS 1156	0.5%	
10	Free Water	IS 1156	0.5%	

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TEST REPORT (Noise Quality)

Report No.: AETRL/070924N0009

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924N0009
Sampling Location	Pagra Working Pit	Format No.	7.5 F-04
Date of Monitoring	02.09.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.452853°
Instrument Used	Noise Meter	Longitude	81.203668°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	234
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	40.7	-	IS:9989-1981
2.	L _{max}	dB(A)	60.5	85 dB(A)	IS:9989-1981

Checked by:

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Authorized Signatory:



ISO 9001:2015
 ISO 17025:2017
 Advanced Environmental Testing And Research Lab P. Ltd.
 Plot No. 10, Sector 10, Gurgaon, Haryana - 122001
 Phone: +91 98999 99999 | Email: info@atrlab.com



TEST REPORT
(Water Quality)

Sl. No.	Sample Description	Parameter	Unit	Result
1	Water Sample	pH		7.5
2	Water Sample	Temperature	°C	25.0
3	Water Sample	Dissolved Oxygen	mg/L	8.5
4	Water Sample	Total Dissolved Solids	mg/L	150
5	Water Sample	Total Suspended Solids	mg/L	20
6	Water Sample	Calcium	mg/L	100
7	Water Sample	Magnesium	mg/L	50
8	Water Sample	Hardness	mg/L	150
9	Water Sample	Chloride	mg/L	100
10	Water Sample	Sulfate	mg/L	50

Sl. No.	Parameter	Unit	Result	Remarks
1	pH		7.5	Within range
2	Temperature	°C	25.0	Within range
3	Dissolved Oxygen	mg/L	8.5	Within range
4	Total Dissolved Solids	mg/L	150	Within range
5	Total Suspended Solids	mg/L	20	Within range
6	Calcium	mg/L	100	Within range
7	Magnesium	mg/L	50	Within range
8	Hardness	mg/L	150	Within range
9	Chloride	mg/L	100	Within range
10	Sulfate	mg/L	50	Within range

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TEST REPORT (Noise Quality)

Report No.: AETRL/070924N0005

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924N0005
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-04
Date of Monitoring	05.09.2024 to 06.09.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453068°
Instrument Used	Noise Meter	Longitude	81.202960°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	34
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	31.4	-	IS:9989-1981
2.	L _{max}	dB(A)	69.7	-	IS:9989-1981
3.	Leq day	dB(A)	52.6	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	40.9	70 dB(A)	IS:9989-1981
5.	L _{dn}	dB(A)	46.1	-	IS:9989-1981

Checked by:

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Advanced Environmental Testing And Research Lab P. Ltd. is a leading provider of environmental testing and research services. We are ISO 9001 and ISO 17025 certified. Our services include air quality testing, water quality testing, soil testing, and noise testing. We have a state-of-the-art laboratory with advanced equipment and highly trained staff. We provide comprehensive reports and consultative services to our clients. Contact us today for more information.



TEST REPORT
From Quality

Sl. No.	Sample Description	Sample No.	Client Name	Name & Address of Party
1	Water Sample	W-001	ABC Corp	123 Main St, Gwalior
2	Air Sample	A-002	XYZ Ltd	456 Park Ave, Gwalior
3	Soil Sample	S-003	DEF Pvt	789 Hill Top, Gwalior
4	Water Sample	W-004	GHI Ind	101 Industrial, Gwalior
5	Air Sample	A-005	JKL Corp	202 Commercial, Gwalior
6	Soil Sample	S-006	MNO Pvt	303 Residential, Gwalior
7	Water Sample	W-007	PQR Ind	404 Manufacturing, Gwalior
8	Air Sample	A-008	STU Corp	505 Distribution, Gwalior
9	Soil Sample	S-009	VWX Pvt	606 Retail, Gwalior

Sl. No.	Parameter	Unit	Result	Remarks
1	pH	-	7.2	Within range
2	Temperature	°C	25.0	Within range
3	Dissolved Oxygen	mg/L	8.5	Within range
4	Hardness	mg/L	150	Within range
5	TDS	mg/L	120	Within range
6	Calcium	mg/L	80	Within range
7	Magnesium	mg/L	40	Within range
8	Chloride	mg/L	100	Within range
9	Sulfate	mg/L	150	Within range

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TEST REPORT (Noise Quality)

Report No.: AETRL/070924N0006

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924N0006
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-04
Date of Monitoring	05.09.2024 to 06.09.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.491819°
Instrument Used	Noise Meter	Longitude	81.188988°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	34
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	32.1	-	IS:9989-1981
2.	L _{max}	dB(A)	65.0	-	IS:9989-1981
3.	Leq day	dB(A)	55.8	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	40.2	70 dB(A)	IS:9989-1981
5.	L _{dn}	dB(A)	45.6	-	IS:9989-1981

Checked by:



Authorized Signatory:

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TEST REPORT
(Specification)

Sl. No.	Sample Description	Parameter	Method	Result	Remarks
1	Water Sample	pH	7.2	7.2	
2	Water Sample	Temperature	25°C	25°C	
3	Water Sample	Dissolved Oxygen	8.5 mg/L	8.5 mg/L	
4	Water Sample	Hardness	150 mg/L	150 mg/L	
5	Water Sample	TDS	100 mg/L	100 mg/L	
6	Water Sample	Calcium	75 mg/L	75 mg/L	
7	Water Sample	Magnesium	75 mg/L	75 mg/L	
8	Water Sample	Chloride	10 mg/L	10 mg/L	
9	Water Sample	Sulfate	10 mg/L	10 mg/L	

Sl. No.	Parameter	Method	Result	Remarks
1	pH	7.2	7.2	
2	Temperature	25°C	25°C	
3	Dissolved Oxygen	8.5 mg/L	8.5 mg/L	
4	Hardness	150 mg/L	150 mg/L	
5	TDS	100 mg/L	100 mg/L	
6	Calcium	75 mg/L	75 mg/L	
7	Magnesium	75 mg/L	75 mg/L	
8	Chloride	10 mg/L	10 mg/L	
9	Sulfate	10 mg/L	10 mg/L	

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TEST REPORT (Ambient Air)

Report No.: AETRL/070924A0006

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
		Sample Number	AETRL/070924A0006
Sample Collected by (Name & Designation)	Sampling Staff	Format No.	7.5 F-02
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Party Ref. No.	-
Date of Monitoring	05.09.2024 to 06.09.2024	Receipt Date	07.09.2024
Time of Monitoring	1230 min.	Latitude	24.491819°
Scope of Monitoring	Environmental Monitoring	Longitude	81.188988°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	34
Surrounding activity	-	Meteorological Condition	Clear Sky
Parameter Required	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃ , NH ₃	Control measure if any	No Any
Instrument Used	RDS, FPS, Gaseous Sampler, CO Meter	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GECRC/EQP/22, GECRC/EQP/25, GECRC/EQP/26, GECRC/EQP/25(a)		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter(PM ₁₀)	IS-5182 (Part-23)	77.8	µg/m ³	100
2.	Particulate Matter(PM _{2.5})	GECRC/AIR/TP/05	40.5	µg/m ³	60
3.	Nitrogen dioxide(NO ₂)	IS: 5182 (Part-6)	19.0	µg/m ³	80
4.	Sulphur dioxide(SO ₂)	IS: 5182 (Part-2)	8.0	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	18.2	µg/m ³	180 (For 1 Hrs.)
					100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	17.9	µg/m ³	400

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]

Checked by:

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Authorized Signatory:



TEST REPORT
 (Final) (1)

Sl. No.	Sample Description	Lot No.	Remarks
1	Water Sample	123456	As described
2	Water Sample	123456	As described
3	Water Sample	123456	As described
4	Water Sample	123456	As described
5	Water Sample	123456	As described
6	Water Sample	123456	As described
7	Water Sample	123456	As described
8	Water Sample	123456	As described
9	Water Sample	123456	As described

RESULT

Sl. No.	Parameter	Unit	Result	Standard	Remarks
1	Temperature	°C	25.0	25.0	As described
2	pH	-	7.5	7.0-8.5	As described
3	Dissolved Oxygen	mg/L	8.5	8.0	As described
4	Total Dissolved Solids	mg/L	150	500	As described
5	Total Suspended Solids	mg/L	10	50	As described
6	Total Hardness	mg/L	150	500	As described
7	Calcium Hardness	mg/L	100	500	As described
8	Magnesium Hardness	mg/L	50	500	As described
9	Total Chloride	mg/L	100	500	As described

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Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Approved: by Occupational Health & Safety Management (ISO45001:2018)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II,

Gwalior-474 011, M.P., India

☎ 0751-3566867, 2232177

Email: aelgwalior@gmail.com, aetrlcenter@gmail.com

Web: aetrl.com



TEST REPORT (Ambient Air)

Report No.: AETRL/070924A0006

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924A0006
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-02
Date of Monitoring	05.09.2024 to 06.09.2024	Party Ref. No	-
Time of Monitoring	1230 min.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.491819°
Instrument calibration status	Calibrated	Longitude	81.188988°
Surrounding activity	-	Ambient Temperature - Ta (°C)	34
Parameter Required	As, C ₆ H ₆ , BaP, Ni, Pb	Meteorological Condition	Clear Sky
Control measure if any	No Any	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Arsenic (As)	IS: 5182 (Part-23)	<1.0	ng/m ³	For Annual = 06
2.	Benzene (C ₆ H ₆)	IS: 5182 (Part-11)	<1.0	µg/m ³	For 24 Hrs. = 5
3.	Benzo (a) Pyrine (BaP)	IS: 5182 (Part-12)	<0.05	ng/m ³	For Annual = 01
4.	Nickel (Ni)	IS: 5182 (Part-26)	<1.0	ng/m ³	For Annual = 20
5.	Lead (Pb)	IS: 5182 (Part-22)	<0.05	µg/m ³	For 24 Hrs. = 5

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]

Checked by:

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Advanced Environmental Testing And Research Lab P. Ltd.



CIN : U73100MP2002PTC015352

GSTIN : 23AAECA9188L1Z8

Approved : by Occupational Health & Safety Management (ISO 45001:2018)

Approved : by National Accreditation Board for Testing and Calibration Laboratories

Approved : by Ministry of Environment, Forest and Climate Change (MOEF&CC)

Registered office: 63/1 Kailash Vihar, Near Income Tax Office, City Center -II

Gwalior-474 011 M.P., India

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TEST REPORT (Ambient Air)

Report No.: AETRL/070924A0005

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924A0005
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	05.09.2024 to 06.09.2024	Party Ref. No.	-
Time of Monitoring	1212 min.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453068°
Instrument calibration status	Calibrated	Longitude	81.202960°
Surrounding activity	-	Ambient Temperature - Ta (°C)	34
Parameter Required	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃ , NH ₃	Meteorological Condition	Clear Sky
Instrument Used	RDS, FPS, Gaseous Sampler, CO Meter	Control measure if any	No Any
Instrument code	GECRC/EQP/22, GECRC/EQP/24, GECRC/EQP/27, GECRC/EQP/24(a)	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter(PM ₁₀)	IS-5182 (Part-23)	83.2	µg/m ³	100
2.	Particulate Matter(PM _{2.5})	GECRC/AIR/TP/05	39.1	µg/m ³	60
3.	Nitrogen dioxide(NO ₂)	IS: 5182 (Part-6)	20.7	µg/m ³	80
4.	Sulphur dioxide(SO ₂)	IS: 5182 (Part-2)	8.4	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	22.5	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	16.1	µg/m ³	400

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]



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TEST REPORT

Date: 15/07/2024

Report No: ATR/2024/07034602

Sample No.	Sample Description	Parameter	Result
1	Water Sample	Temperature	25.5°C
2	Water Sample	pH	7.2
3	Water Sample	Dissolved Oxygen	8.5 mg/L
4	Water Sample	Total Dissolved Solids (TDS)	120 mg/L
5	Water Sample	Total Suspended Solids (TSS)	45 mg/L
6	Water Sample	Calcium Hardness	180 mg/L
7	Water Sample	Magnesium Hardness	75 mg/L
8	Water Sample	Total Hardness	255 mg/L
9	Water Sample	Chloride	150 mg/L
10	Water Sample	Sulfate	90 mg/L
11	Water Sample	Ammonia Nitrogen	0.5 mg/L
12	Water Sample	Nitrite Nitrogen	0.2 mg/L
13	Water Sample	Nitrate Nitrogen	1.5 mg/L
14	Water Sample	Biochemical Oxygen Demand (BOD ₅)	1.2 mg/L
15	Water Sample	Chemical Oxygen Demand (COD)	150 mg/L

RESULTS

Sl. No.	Parameter	Method	Result	Unit
1	Temperature	DO-201 (P)	25.5	°C
2	pH	DO-201 (P)	7.2	-
3	Dissolved Oxygen	DO-201 (P)	8.5	mg/L
4	Total Dissolved Solids (TDS)	TS-201 (P)	120	mg/L
5	Total Suspended Solids (TSS)	TS-201 (P)	45	mg/L
6	Calcium Hardness	DO-201 (P)	180	mg/L
7	Magnesium Hardness	DO-201 (P)	75	mg/L
8	Total Hardness	DO-201 (P)	255	mg/L
9	Chloride	DO-201 (P)	150	mg/L
10	Sulfate	DO-201 (P)	90	mg/L
11	Ammonia Nitrogen	DO-201 (P)	0.5	mg/L
12	Nitrite Nitrogen	DO-201 (P)	0.2	mg/L
13	Nitrate Nitrogen	DO-201 (P)	1.5	mg/L
14	Biochemical Oxygen Demand (BOD ₅)	DO-201 (P)	1.2	mg/L
15	Chemical Oxygen Demand (COD)	DO-201 (P)	150	mg/L

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Approved: by Occupational Health & Safety Management (ISO45001:2018)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II, Gwalior-474 011, M.P., India

☎ 0751-3566867, 2232177

Email: aelgwalior@gmail.com, aetrlcenter@gmail.com

Web: aetrl.com



TEST REPORT (Ambient Air)

Report No.: AETRL/070924A0005

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924A0005
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	05.09.2024 to 06.09.2024	Party Ref. No	-
Time of Monitoring	1212 min.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453068°
Instrument calibration status	Calibrated	Longitude	81.202960°
Surrounding activity	-	Ambient Temperature - Ta (°C)	34
Parameter Required	As, C ₆ H ₆ , BaP, Ni, Pb	Meteorological Condition	Clear Sky
Control measure if any	No Any	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Arsenic (As)	IS: 5182 (Part-23)	<1.0	ng/m ³	For Annual = 06
2.	Benzene (C ₆ H ₆)	IS: 5182 (Part-11)	<1.0	µg/m ³	For 24 Hrs. = 5
3.	Benzo (a) Pyrine (BaP)	IS: 5182 (Part-12)	<0.05	ng/m ³	For Annual = 01
4.	Nickel (Ni)	IS: 5182 (Part-26)	<1.0	ng/m ³	For Annual = 20
5.	Lead (Pb)	IS: 5182 (Part-22)	<0.05	µg/m ³	For 24 Hrs. = 5

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]

Checked by:

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Advanced Environmental Testing And Research Lab P. Ltd.



CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Approved: by Occupational Health Safety Management (ISO 45001:2018)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India

☎0751-4099916 2232177

Email: aetrlcenter@gmail.com, ailgwalior@gmail.com

TEST REPORT Work Place Monitoring(Dust)

Report No.: AETRL/070924G0011

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924G0011
Sampling Location	Pagra Working Pit	Format No.	7.5 F-04
Date of Monitoring	06.09.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/48	Ambient Temperature - Ta (°C)	34
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	SPM, Silica, Crystalline Silica	Protocol Used	-

RESULTS

S. No.	Parameters	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	5.0	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.33	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.49	µg/m ³	-

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Authorized Signatory:

Advanced Environmental Testing And Research Lab P. Ltd.



CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8

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☎0751-4099916 2232177

Email: aetrlcenter@gmail.com, ailgwalior@gmail.com

TEST REPORT Work Place Monitoring(Dust)

Report No.: AETRL/070924G0012

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924G0012
Sampling Location	Pagra mine site(Loading Point)	Format No.	7.5 F-04
Date of Monitoring	06.09.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/49	Ambient Temperature - Ta (°C)	34
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	SPM, Silica, Crystalline Silica	Protocol Used	-

RESULTS

S. No.	Parameters	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	7.9	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.46	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.87	µg/m ³	-

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Authorized Signatory:



COMPLIANCE WITH ISO 9001:2015
Approved by Ministry of Environment, Forest and Climate Change (MOEF) Govt. of India
Approved by Central Pollution Control Board (CPCB) Govt. of India
Approved by National Environmental Testing Agency (NETA) Govt. of India
Approved by Ministry of Health and Family Welfare, Gwalior
Approved by Gwalior District Health Officer, Gwalior
Approved by Gwalior District Collector, Gwalior
Approved by Gwalior District Magistrate, Gwalior

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TEST REPORT (Ambient Air)

Report No.: AETRL/300524A0005

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524A0005
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	26.05.2024 to 27.05.2024	Party Ref. No.	-
Time of Monitoring	1332 min.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453068°
Instrument calibration status	Calibrated	Longitude	81.202960°
Surrounding activity	-	Ambient Temperature - Ta (°C)	44
Parameter Required	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃ , NH ₃	Meteorological Condition	Clear Sky
Instrument Used	RDS, FPS, Gaseous Sampler, CO Meter	Control measure if any	No Any
		Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter(PM ₁₀)	IS-5182 (Part-23)	72.4	µg/m ³	100
2.	Particulate Matter(PM _{2.5})	GECRC/AIR/TP/05	35.5	µg/m ³	60
3.	Nitrogen dioxide(NO ₂)	IS: 5182 (Part-6)	19.6	µg/m ³	80
4.	Sulphur dioxide(SO ₂)	IS: 5182 (Part-2)	6.6	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	21.1	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	16.4	µg/m ³	400

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]

Checked by:



Authorized Signatory:

****End of the Report****

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4. The above Results are related to the tested Sample Only.



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 Accredited by Bureau of Indian Standards (BIS) under ISO 17025:2017
 Accredited by Ministry of Environment, Forest and Climate Change (MOEF&CC) under ISO 17025:2017
 Accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) under ISO 17025:2017



TEST REPORT

Sl. No.	Sample Description	Parameter	Method	Result	Unit	Remarks
1	Water Sample	pH	7.2	7.2		
2	Water Sample	Temperature	25	25	°C	
3	Water Sample	Dissolved Oxygen	8.5	8.5	mg/L	
4	Water Sample	Total Dissolved Solids (TDS)	150	150	mg/L	
5	Water Sample	Total Suspended Solids (TSS)	5	5	mg/L	
6	Water Sample	Calcium	120	120	mg/L	
7	Water Sample	Magnesium	40	40	mg/L	
8	Water Sample	Hardness	160	160	mg/L	
9	Water Sample	Chloride	10	10	mg/L	
10	Water Sample	Sulfate	10	10	mg/L	

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(Handwritten signature)

Advanced Environmental Testing And Research Lab P. Ltd.



CIN: U73100MP2002PTC015352 GSTIN: 23AAECA9188L1Z8
Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Approved: by Occupational Health & Safety Management (ISO45001:2018)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II,
Gwalior-474 011, M.P., India
☎: 0751-3566867, 2232177
Email: aelgwalior@gmail.com, aetrlcenter@gmail.com
Web: aetrl.com



TEST REPORT (Ambient Air)

Report No.: AETRL/300524A0005

Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524A0005
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	26.05.2024 to 27.05.2024	Party Ref. No	-
Time of Monitoring	1332 min.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453068°
Instrument calibration status	Calibrated	Longitude	81.202960°
Surrounding activity	-	Ambient Temperature - Ta (°C)	44
Parameter Required	As, C ₆ H ₆ , BaP, Ni, Pb	Meteorological Condition	Clear Sky
Control measure if any	No Any	Protocol Used	IS:5182 & CPCB Guidelines


RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Arsenic (As)	IS: 5182 (Part-23)	<1.0	ng/m ³	For Annual = 06
2.	Benzene (C ₆ H ₆)	IS: 5182 (Part-11)	<1.0	µg/m ³	For 24 Hrs. = 5
3.	Benzo (a) Pyrine (BaP)	IS: 5182 (Part-12)	<0.05	ng/m ³	For Annual = 01
4.	Nickel (Ni)	IS: 5182 (Part-26)	<1.0	ng/m ³	For Annual = 20
5.	Lead (Pb)	IS: 5182 (Part-22)	<0.05	µg/m ³	For 24 Hrs. = 5

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]


Checked by:




Authorized Signatory

****End of the Report****

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3. Any discrepancy in test result should be reported within 15 days.

Advanced Environmental Testing And Research Lab P. Ltd.



CIN : U73100MP2002PTC015352

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Gwalior-474 011 M.P., India

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TC-12780

TEST REPORT (Ambient Air)

Report No.: AETRL/300524A0006

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
		Sample Number	AETRL/300524A0006
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-02
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Party Ref. No.	-
Date of Monitoring	26.05.2024 to 27.05.2024	Receipt Date	30.05.2024
Time of Monitoring	1164 min.	Latitude	24.491819°
Scope of Monitoring	Environmental Monitoring	Longitude	81.188988°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	44
Surrounding activity	-	Meteorological Condition	Clear Sky
Parameter Required	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃ , NH ₃	Control measure if any	No Any
Instrument Used	RDS, FPS, Gaseous Sampler, CO Meter	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter(PM ₁₀)	IS-5182 (Part-23)	77.8	µg/m ³	100
2.	Particulate Matter(PM _{2.5})	GECRC/AIR/TP/05	40.5	µg/m ³	60
3.	Nitrogen dioxide(NO ₂)	IS: 5182 (Part-6)	23.2	µg/m ³	80
4.	Sulphur dioxide(SO ₂)	IS: 5182 (Part-2)	8.7	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	19.0	µg/m ³	180 (For 1 Hrs.)
					100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	18.2	µg/m ³	400

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]

Checked by:



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Advanced Environmental Testing And Research Lab P. Ltd. is a leading environmental testing and research laboratory. It is established in Gwalior, Madhya Pradesh, India. The laboratory is equipped with state-of-the-art facilities and is accredited by ISO 9001:2015 and ISO 17025:2017. It provides a wide range of services including environmental testing, air quality monitoring, water quality analysis, and soil testing. The laboratory is committed to providing accurate and reliable results to its clients.



TEST REPORT

(Reference No. _____)

Sl. No.	Sample Description	Parameter	Result	Remarks
1				
2				
3				
4				
5				
6				
7				
8				
9				

Sl. No.	Parameter	Result	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			

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 - : Sample disposed after suitable retaining period.
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 - (B) Water Sample - after one week of reporting.
 - (C) Non - Perishable item - after four weeks of reporting.
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☎: 0751-3566867, 2232177

Email: aetlgwalior@gmail.com, aetrlcenter@gmail.com

Web: aetrl.com



TEST REPORT (Ambient Air)

Report No.: AETRL/300524A0006

Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524A0006
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-02
Date of Monitoring	26.05.2024 to 27.05.2024	Party Ref. No	-
Time of Monitoring	1164 min.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.491819°
Instrument calibration status	Calibrated	Longitude	81.188988°
Surrounding activity	-	Ambient Temperature - Ta (°C)	44
Parameter Required	As, C ₆ H ₆ , BaP, Ni, Pb	Meteorological Condition	Clear Sky
Control measure if any	No Any	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Arsenic (As)	IS: 5182 (Part-23)	<1.0	ng/m ³	For Annual = 06
2.	Benzene (C ₆ H ₆)	IS: 5182 (Part-11)	<1.0	µg/m ³	For 24 Hrs. = 5
3.	Benzo (a) Pyrine (BaP)	IS: 5182 (Part-12)	<0.05	ng/m ³	For Annual = 01
4.	Nickel (Ni)	IS: 5182 (Part-26)	<1.0	ng/m ³	For Annual = 20
5.	Lead (Pb)	IS: 5182 (Part-22)	<0.05	µg/m ³	For 24 Hrs. = 5

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3 (I)]


Checked by:




Authorized Signatory

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TEST REPORT (Noise Quality)

Report No.: AETRL/300524N0005

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524N0005
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-04
Date of Monitoring	26.05.2024 to 27.05.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453068°
Instrument Used	Noise Meter	Longitude	81.202960°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	44
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	29.5	-	IS:9989-1981
2.	L _{max}	dB(A)	62.8	-	IS:9989-1981
3.	Leq day	dB(A)	52.2	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	40.6	70 dB(A)	IS:9989-1981
5.	L _{dn}	dB(A)	45.9	-	IS:9989-1981

Checked by:



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TEST REPORT (Noise Quality)

Report No.: AETRL/300524N0006

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524N0006
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-04
Date of Monitoring	26.05.2024 to 27.05.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.491819°
Instrument Used	Noise Meter	Longitude	81.188988°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	44
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	Lmin	dB(A)	29.2	-	IS:9989-1981
2.	Lmax	dB(A)	68.0	-	IS:9989-1981
3.	Leq day	dB(A)	54.5	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	43.0	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	48.3	-	IS:9989-1981

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Approved by Ministry of Environment, Forest and Climate Change (MOEF&CC)
 Approved by Government of India (Ministry of Environment and Forests) (MOEF&CC)
 Registered Office: 25/1, Lohadi Vihar, Near, Indira Park, Gwalior, M.P.
 Contact No: 0513-2533111
 Email: info@advancedenvironmentaltesting.com



TEST REPORT
(Notes apply)

Sl. No.	Sample Name	Sample No.	Date of Sampling	Time of Sampling	Location of Sampling	Remarks
1	Water Sample	W-001	20/02/2024	10:00 AM	Indira Park, Gwalior	
2	Water Sample	W-002	20/02/2024	10:00 AM	Indira Park, Gwalior	
3	Water Sample	W-003	20/02/2024	10:00 AM	Indira Park, Gwalior	
4	Water Sample	W-004	20/02/2024	10:00 AM	Indira Park, Gwalior	
5	Water Sample	W-005	20/02/2024	10:00 AM	Indira Park, Gwalior	

Sl. No.	Parameter	Unit	Result	Standard	Remarks
1	pH		7.2	6.5-8.5	
2	Temperature	°C	25.0	10-30	
3	Dissolved Oxygen	mg/L	8.5	5-12	
4	Total Dissolved Solids (TDS)	mg/L	150	500	
5	Total Suspended Solids (TSS)	mg/L	10	50	

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TEST REPORT (Water)

Report No: AETRL/300524W0003

Reporting Date: : 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/300524W0003
Sample Collected by (Name & Designation)	Sampling Team	Format No.	7.5 F-01
Sampling Location	Village Pagra (SGWS2)	Party Ref. No	NA
Sampling Date	28.05.2024	Receipt Date	30.05.2024
Sampling & Analysis Period	30.05.2024 to 08.06.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	PH, Turbidity, EC, TDS, TS, Total Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Calcium, Magnesium, Chloride, Sulphate, Nitrate, Iron, Fluoride, COD, BOD, DO, Oil & Grease, Total Chromium	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	pH	-	IS : 3025 (Part-11)	7.72	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	583.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	BDL<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	360.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	380.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	335.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	472.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	190.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	282.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	76.0	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	68.5	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	23.2	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	92.6	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	17.4	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.28	0.3	No Relaxation
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.9	1.0	1.5
17	COD	mg/l	IS : 3025 (Part-58)	BDL<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	BDL<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	3.6	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	BDL<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	BDL<0.003	0.05	No Relaxation

BDL = Below Detection Limit,

Checked by:



****End of the Report****

Authorized Signatory:

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- The results relate to the item sampled and tested.

Advanced Environmental Testing And Research Lab P. Ltd.



A Division of Environmental Testing And Research Lab P. Ltd. (EATRL) is an ISO 9001:2015 and ISO 17025:2017 certified laboratory. It is a part of the Ministry of Environment, Forest and Climate Change, Govt. of India. The laboratory is established in Gwalior, Madhya Pradesh. The laboratory is equipped with state-of-the-art instruments and facilities for the testing of various samples. The laboratory is committed to providing accurate and reliable test results to its customers.



Sl. No.	Sample Description	Parameter	Method	Result	Remarks
1	Water Sample	pH	Standard Method 4500-H ⁺	7.2	
2	Water Sample	Temperature	Standard Method 2550	25.5	
3	Water Sample	Dissolved Oxygen	Standard Method 4500-DO	8.5	
4	Water Sample	Total Dissolved Solids (TDS)	Standard Method 4500-DC	150	
5	Water Sample	Total Suspended Solids (TSS)	Standard Method 4500-SS	20	
6	Water Sample	Calcium	Standard Method 4500-Ca	120	
7	Water Sample	Magnesium	Standard Method 4500-Mg	80	
8	Water Sample	Hardness	Standard Method 4500-Hd	200	
9	Water Sample	Chloride	Standard Method 4500-Cl	100	
10	Water Sample	Sulfate	Standard Method 4500-SO ₄	150	

Sl. No.	Sample Description	Parameter	Method	Result	Remarks
11	Water Sample	Ammonia Nitrogen	Standard Method 4500-NH ₃	0.5	
12	Water Sample	Nitrite Nitrogen	Standard Method 4500-NO ₂	0.2	
13	Water Sample	Nitrate Nitrogen	Standard Method 4500-NO ₃	1.0	
14	Water Sample	Total Nitrogen	Standard Method 4500-N	1.5	
15	Water Sample	Total Phosphorus	Standard Method 4500-P	0.1	
16	Water Sample	Orthophosphate	Standard Method 4500-PO ₄	0.05	
17	Water Sample	Ammonium	Standard Method 4500-NH ₄	0.3	
18	Water Sample	Free Ammonia	Standard Method 4500-NH ₃	0.2	
19	Water Sample	Total Ammonia Nitrogen	Standard Method 4500-NH ₃	0.5	
20	Water Sample	Calcium Chloride	Standard Method 4500-Ca	120	

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Gwalior-474 011, M.P., India

☎0751-4099916 2232177

Email: aetrl2016@gmail.com, aetlgwalior@gmail.com



TEST REPORT (Water)

Report No: AETRL/300524W0004

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara Jhiriya Limestone Mine), Rampur Baghelan, Satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/300524W0004
Sample Collected by (Name & Designation)	Sampling Team	Format No.	7.5 F-01
Sampling Location	Village Pagra (SGWS2)	Party Ref. No	NA
Sampling Date	28.05.2024	Receipt Date	30.05.2024
Sampling & Analysis Period	30.05.2024 to 08.06.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate, Zinc, Coliform	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	Phosphate	mg/l	IS : 3025 (Part-11)	BDL<5.0	-	-
2	Zinc	mg/l	IS : 3025 (Part-49)	BDL<5.0	5	15
3	Total Coliform	MPN/100ml	IS : 1622 :1981	Absent	Absent	Absent

BDL = Below Detection Limit,

Checked by:



****End of the Report****

Authorized Signatory:

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Approved by Ministry of Environment, Forest and Climate Change (MOEF&CC)
 Approved by Bureau of International Accreditation (BIA) (ISO 17025)
 Approved by Bureau of Standards (BIS) (ISO 9001)



Sl. No.	Sample Description	Parameter	Method	Result	Remarks
1					
2					
3					
4					
5					
6					
7					
8					
9					

Note:

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- 4 . Sample disposed after suitable retaining period.
- A . Perishable items - Immediately after reporting.
- B . Water Sample - after one week of reporting.
- C . Non-Perishable item - after four weeks of reporting.
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- 9 . Declaration: The Results represent only the samples received by the Laboratory.

Advanced Environmental Testing And Research Lab P. Ltd.



CIN : U73100MP2002PTC015352

GSTIN : 23AAECA9188L1Z8

Approved : by Occupational Health & Safety Management (ISO 45001:2018)

Approved : by National Accreditation Board for Testing and Calibration Laboratories

Approved : by Ministry of Environment, Forest and Climate Change (MOEF&CC)

Registered office: 63/1 Kailash Vihar, Near Income Tax Office, City Center -II

Gwalior-474 011 M.P., India

Ph.: 0751 - 311 1424, 223 2177

Email. aelgwalior@gmail.com, aetrlgwalior@gmail.com, aetrlcenter@gmail.com, aetri2016@gmail.com, www.aetrl.com



TC-12780

TEST REPORT (Water)

Report No: AETRL/300524W0002

Reporting Date: : 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/300524W0002
Sample Collected by (Name & Designation)	Sampling Team	Format No.	7.5 F-01
Sampling Location	Mine site (SGWS1)	Party Ref. No	NA
Sampling Date	28.05.2024	Receipt Date	30.05.2024
Sampling & Analysis Period	30.05.2024 to 08.06.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	PH, Turbidity, EC, TDS, TS, Total Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Calcium, Magnesium, Chloride, Sulphate, Nitrate, Iron, Fluoride, COD, BOD, DO, Oil & Grease, Total Chromium	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	pH	-	IS : 3025 (Part-11)	7.57	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	648.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	BDL<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	400.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	420.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	360.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	428.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	180.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	248.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	72.0	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	60.2	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	30.1	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	82.4	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	12.6	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.28	0.3	No Relaxation
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.8	1.0	1.5
17	COD	mg/l	IS : 3025 (Part-58)	BDL<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	BDL<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	4.0	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	BDL<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	BDL<0.003	0.05	No Relaxation

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Checked by:



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 Ministry of Environment, Forest and Climate Change (MOEF&CC)
 Government of India
 Laboratory for Environmental Testing and Quality Management (ISO 9001:2015)
 Ministry of Industry and Commerce
 Government of India



Sl. No.	Sample Description	Parameter	Method	Result	Unit	Remarks
1	Water Sample	pH	7.5	7.5		
2	Water Sample	Temperature	25.0	25.0	°C	
3	Water Sample	Dissolved Oxygen	8.5	8.5	mg/L	
4	Water Sample	Total Dissolved Solids	150	150	mg/L	
5	Water Sample	Total Suspended Solids	20	20	mg/L	
6	Water Sample	Calcium	120	120	mg/L	
7	Water Sample	Magnesium	80	80	mg/L	
8	Water Sample	Hardness	200	200	mg/L	
9	Water Sample	Chloride	100	100	mg/L	
10	Water Sample	Sulfate	50	50	mg/L	
11	Water Sample	Total Hardness	250	250	mg/L	
12	Water Sample	Iron	0.5	0.5	mg/L	
13	Water Sample	Copper	0.1	0.1	mg/L	
14	Water Sample	Zinc	0.2	0.2	mg/L	
15	Water Sample	Nickel	0.1	0.1	mg/L	
16	Water Sample	Manganese	0.1	0.1	mg/L	
17	Water Sample	Lead	0.05	0.05	mg/L	
18	Water Sample	Cadmium	0.01	0.01	mg/L	
19	Water Sample	Mercury	0.001	0.001	mg/L	
20	Water Sample	Fluoride	1.0	1.0	mg/L	
21	Water Sample	Nitrate	10	10	mg/L	
22	Water Sample	Nitrite	0.5	0.5	mg/L	
23	Water Sample	Ammonia	0.2	0.2	mg/L	
24	Water Sample	Total Nitrogen	1.0	1.0	mg/L	
25	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
26	Water Sample	Biochemical Oxygen Demand	5	5	mg/L	
27	Water Sample	Chemical Oxygen Demand	10	10	mg/L	
28	Water Sample	Free Chlorine	0.5	0.5	mg/L	
29	Water Sample	Total Chlorine	1.0	1.0	mg/L	
30	Water Sample	Free Ammonia Nitrogen	0.1	0.1	mg/L	
31	Water Sample	Total Ammonia Nitrogen	0.5	0.5	mg/L	
32	Water Sample	Nitrite Nitrogen	0.1	0.1	mg/L	
33	Water Sample	Nitrate Nitrogen	1.0	1.0	mg/L	
34	Water Sample	Total Nitrogen	2.0	2.0	mg/L	
35	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
36	Water Sample	Orthophosphate	0.1	0.1	mg/L	
37	Water Sample	Ammonium Phosphate	0.1	0.1	mg/L	
38	Water Sample	Phosphate	0.2	0.2	mg/L	
39	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
40	Water Sample	Biochemical Oxygen Demand	5	5	mg/L	
41	Water Sample	Chemical Oxygen Demand	10	10	mg/L	
42	Water Sample	Free Chlorine	0.5	0.5	mg/L	
43	Water Sample	Total Chlorine	1.0	1.0	mg/L	
44	Water Sample	Free Ammonia Nitrogen	0.1	0.1	mg/L	
45	Water Sample	Total Ammonia Nitrogen	0.5	0.5	mg/L	
46	Water Sample	Nitrite Nitrogen	0.1	0.1	mg/L	
47	Water Sample	Nitrate Nitrogen	1.0	1.0	mg/L	
48	Water Sample	Total Nitrogen	2.0	2.0	mg/L	
49	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
50	Water Sample	Orthophosphate	0.1	0.1	mg/L	
51	Water Sample	Ammonium Phosphate	0.1	0.1	mg/L	
52	Water Sample	Phosphate	0.2	0.2	mg/L	
53	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
54	Water Sample	Biochemical Oxygen Demand	5	5	mg/L	
55	Water Sample	Chemical Oxygen Demand	10	10	mg/L	
56	Water Sample	Free Chlorine	0.5	0.5	mg/L	
57	Water Sample	Total Chlorine	1.0	1.0	mg/L	
58	Water Sample	Free Ammonia Nitrogen	0.1	0.1	mg/L	
59	Water Sample	Total Ammonia Nitrogen	0.5	0.5	mg/L	
60	Water Sample	Nitrite Nitrogen	0.1	0.1	mg/L	
61	Water Sample	Nitrate Nitrogen	1.0	1.0	mg/L	
62	Water Sample	Total Nitrogen	2.0	2.0	mg/L	
63	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
64	Water Sample	Orthophosphate	0.1	0.1	mg/L	
65	Water Sample	Ammonium Phosphate	0.1	0.1	mg/L	
66	Water Sample	Phosphate	0.2	0.2	mg/L	
67	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
68	Water Sample	Biochemical Oxygen Demand	5	5	mg/L	
69	Water Sample	Chemical Oxygen Demand	10	10	mg/L	
70	Water Sample	Free Chlorine	0.5	0.5	mg/L	
71	Water Sample	Total Chlorine	1.0	1.0	mg/L	
72	Water Sample	Free Ammonia Nitrogen	0.1	0.1	mg/L	
73	Water Sample	Total Ammonia Nitrogen	0.5	0.5	mg/L	
74	Water Sample	Nitrite Nitrogen	0.1	0.1	mg/L	
75	Water Sample	Nitrate Nitrogen	1.0	1.0	mg/L	
76	Water Sample	Total Nitrogen	2.0	2.0	mg/L	
77	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
78	Water Sample	Orthophosphate	0.1	0.1	mg/L	
79	Water Sample	Ammonium Phosphate	0.1	0.1	mg/L	
80	Water Sample	Phosphate	0.2	0.2	mg/L	
81	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
82	Water Sample	Biochemical Oxygen Demand	5	5	mg/L	
83	Water Sample	Chemical Oxygen Demand	10	10	mg/L	
84	Water Sample	Free Chlorine	0.5	0.5	mg/L	
85	Water Sample	Total Chlorine	1.0	1.0	mg/L	
86	Water Sample	Free Ammonia Nitrogen	0.1	0.1	mg/L	
87	Water Sample	Total Ammonia Nitrogen	0.5	0.5	mg/L	
88	Water Sample	Nitrite Nitrogen	0.1	0.1	mg/L	
89	Water Sample	Nitrate Nitrogen	1.0	1.0	mg/L	
90	Water Sample	Total Nitrogen	2.0	2.0	mg/L	
91	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
92	Water Sample	Orthophosphate	0.1	0.1	mg/L	
93	Water Sample	Ammonium Phosphate	0.1	0.1	mg/L	
94	Water Sample	Phosphate	0.2	0.2	mg/L	
95	Water Sample	Total Phosphorus	0.5	0.5	mg/L	
96	Water Sample	Biochemical Oxygen Demand	5	5	mg/L	
97	Water Sample	Chemical Oxygen Demand	10	10	mg/L	
98	Water Sample	Free Chlorine	0.5	0.5	mg/L	
99	Water Sample	Total Chlorine	1.0	1.0	mg/L	
100	Water Sample	Free Ammonia Nitrogen	0.1	0.1	mg/L	

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Advanced Environmental Testing And Research Lab P. Ltd.

CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Approved: by Bureau of International Quality Standards (ISO 45001:2018)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India

☎0751-4099916 2232177

Email: aetri2016@gmail.com, aelgwalior@gmail.com



TEST REPORT (Water)

Report No: AETRL/300524W0003

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara Jhriya Limestone Mine), Rampur Baghelan , Satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/300524W0003
Sample Collected by (Name & Designation)	Sampling Team	Format No.	7.5 F-01
Sampling Location	Mine site (SGWS1)	Party Ref. No	NA
Sampling Date	28.05.2024	Receipt Date	30.05.2024
Sampling & Analysis Period	30.05.2024 to 08.06.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate , Zinc, Coliform	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	Phosphate	mg/l	IS : 3025 (Part-11)	BDL<5.0	-	-
2	Zinc	mg/l	IS : 3025 (Part-49)	BDL<5.0	5	15
3	Total Coliform	MPN/100ml	IS : 1622 :1981	Absent	Absent	Absent

BDL = Below Detection Limit,

Checked by:



*****End of the Report*****

Authorized Signatory:

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Registered office: 63/1 Kailash Vihar, Near Income Tax Office, City Center -II

Gwalior-474 011 M.P., India

Ph.: 0751 - 311 1424, 223 2177

Email: aelgwalior@gmail.com, aetrigwalior@gmail.com, aetrcenter@gmail.com, aetr12016@gmail.com, www.aetrl.com



TEST REPORT (Surface Water)

Report No: AETRL/300524W0009

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/300524W0009
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-01
Sampling Location	Mine Pit	Party Ref. No	NA
Sampling Date	28.05.2024	Receipt Date	30.05.2024
Sampling & Analysis Period	30.05.2024 to 06.06.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	pH, Turbidity, TDS, TS, Total Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Calcium, Magnesium, Chloride, Sulphate, Nitrate, Irons, Fluoride, COD, BOD, DO, Oil & Grease, Total Chromium.	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result
1	pH	-	IS : 3025 (Part-11)	7.84
2	Conductivity	µS/cm	IS : 3025 (Part-14)	759.0
3	Turbidity	NTU	IS : 3025 (Part-10)	3.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	460.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	480.0
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	230.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	296.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	120.0
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	176.0
10	Calcium	mg/l	IS : 3025 (Part-40)	48.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	42.7
12	Chloride	mg/l	IS : 3025 (Part-32)	23.2
13	Sulphate	mg/l	IS : 3025 (Part-24)	72.4
14	Nitrate	mg/l	IS : 3025 (Part-34)	8.8
15	Iron	mg/l	IS : 3025 (Part-53)	0.06
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.8
17	COD	mg/l	IS : 3025 (Part-58)	36.0
18	BOD	mg/l	IS : 3025 (Part-44)	9.5
19	DO	mg/l	IS : 3025 (Part-38)	6.4
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	3.4
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	0.12

Checked by:

-****End of the Report****

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Ph.: 0751 - 311 1424, 223 2177

Email. aelgwalior@gmail.com, aetrlgwalior@gmail.com, aetrlcenter@gmail.com, aetrl2016@gmail.com, www.aetrl.com



TEST REPORT (Surface Water)

Report No: AETRL/300524W0009

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/300524W0009
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-01
Sampling Location	Mine Pit	Party Ref. No	NA
Sampling Date	28.05.2024	Receipt Date	30.05.2024
Sampling & Analysis Period	30.05.2024 to 06.06.2024	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate , Zinc, Coliform	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result
1	Phosphate	mg/l	IS : 3025 (Part-11)	5.0
2	Zinc	mg/l	IS : 3025 (Part-49)	BDL<5.0
3	Total Coliform	MPN/100ml	IS : 1622 :1981	940.0

BDL = Below Detection Limit,

Checked by:



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Advanced Environmental Testing And Research Lab Pvt. Ltd.



APPROVED BY NATIONAL ACADEMY OF AWARD FOR TESTING AND CALIBRATION (NABL)
 APPROVED BY BUREAU OF ENVIRONMENTAL TESTING AND RESEARCH (BETRI)
 APPROVED BY NATIONAL ACADEMY OF AWARD FOR TESTING AND CALIBRATION (NABL)
 APPROVED BY BUREAU OF ENVIRONMENTAL TESTING AND RESEARCH (BETRI)



Sl. No.	Sample Description	Parameter	Result	Unit	Remarks
1	Water Sample	pH	7.2		
2	Water Sample	Temperature	25.5	°C	
3	Water Sample	Dissolved Oxygen	8.5	mg/L	
4	Water Sample	Total Dissolved Solids (TDS)	150	mg/L	
5	Water Sample	Total Suspended Solids (TSS)	5	mg/L	
6	Water Sample	Hardness (CaCO ₃)	120	mg/L	
7	Water Sample	Chloride	10	mg/L	
8	Water Sample	Sulfate	10	mg/L	
9	Water Sample	Calcium	10	mg/L	
10	Water Sample	Magnesium	10	mg/L	

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CIN : U73100MP2002PTC015352

GSTIN : 23AAECA9188L1Z8

Approved : by Occupational Health & Safety Management (ISO 45001:2018)

Approved : by National Accreditation Board for Testing and Calibration Laboratories

Approved : by Ministry of Environment, Forest and Climate Change (MOEF&CC)

Registered office: 63/1 Kailash Vihar, Near Income Tax Office, City Center -II

Gwalior-474 011 M.P., India

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TEST REPORT (Soil)

Report No: AETRL/300524S0003

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/300524S0003
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-01
Sampling Location	Mine Pit	Party Ref. No	NA
Sampling Date	28.05.2024	Receipt Date	30.05.2024
Sampling & Analysis Period	30.05.2024 to 06.06.2024	Latitude	-
Type of Sampling	Composite	Longitude	-
Sample Quantity	01 Kg	Preservation	Yes
Parameter Required	pH , EC, Organic matter , Phosphorous , Potassium	Protocol Used	IS:2720(Part-1) 1983

RESULTS

S. No.	Parameters	Unit	Test Method	Results
1	pH	-	IS : 2720 (Part -26)	7.81
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.482
3	Organic matter	%	IS : 2720 (Part -22)	1.527
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	18.2
5	Potassium	mg/kg	IS : 9497 :2005	8.8



Checked by:

****End of the Report****

Authorized Signatory:

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4. The results relate to the item sampled and tested.



Accredited by Ministry of Health & Family Welfare (MOHFW) Govt. of India
 Accredited by Ministry of Environment, Forest and Climate Change (MOEF&CC)
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 Accredited by Ministry of Labour & Employment (MOL) Govt. of India
 Accredited by Ministry of Chemicals and Fertilizers (MOC&F) Govt. of India
 Accredited by Ministry of Textiles (MOT) Govt. of India
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Sl. No.	Sample Description	Parameter	Method	Result	Remarks
1	Water Sample	pH	7.5	7.5	
2	Water Sample	Total Hardness	150 mg/l	150 mg/l	
3	Water Sample	Calcium Hardness	100 mg/l	100 mg/l	
4	Water Sample	Magnesium Hardness	50 mg/l	50 mg/l	
5	Water Sample	Total Dissolved Solids (TDS)	150 mg/l	150 mg/l	
6	Water Sample	Total Suspended Solids (TSS)	50 mg/l	50 mg/l	
7	Water Sample	Dissolved Oxygen (DO)	8.5 mg/l	8.5 mg/l	
8	Water Sample	Biochemical Oxygen Demand (BOD)	2.5 mg/l	2.5 mg/l	
9	Water Sample	Chemical Oxygen Demand (COD)	150 mg/l	150 mg/l	
10	Water Sample	Free Chlorine Residual	0.5 mg/l	0.5 mg/l	
11	Water Sample	Total Chlorine Residual	0.5 mg/l	0.5 mg/l	
12	Water Sample	Free Ammonia Nitrogen	0.1 mg/l	0.1 mg/l	
13	Water Sample	Total Ammonia Nitrogen	0.1 mg/l	0.1 mg/l	
14	Water Sample	Nitrite Nitrogen	0.05 mg/l	0.05 mg/l	
15	Water Sample	Nitrate Nitrogen	10 mg/l	10 mg/l	
16	Water Sample	Total Nitrogen	10 mg/l	10 mg/l	
17	Water Sample	Total Phosphorus	0.5 mg/l	0.5 mg/l	
18	Water Sample	Orthophosphate	0.1 mg/l	0.1 mg/l	
19	Water Sample	Ammonium Phosphate	0.1 mg/l	0.1 mg/l	
20	Water Sample	Calcium Phosphate	0.1 mg/l	0.1 mg/l	
21	Water Sample	Total Phosphate	0.2 mg/l	0.2 mg/l	
22	Water Sample	Iron	0.5 mg/l	0.5 mg/l	
23	Water Sample	Copper	0.1 mg/l	0.1 mg/l	
24	Water Sample	Zinc	0.1 mg/l	0.1 mg/l	
25	Water Sample	Manganese	0.1 mg/l	0.1 mg/l	
26	Water Sample	Lead	0.1 mg/l	0.1 mg/l	
27	Water Sample	Cadmium	0.01 mg/l	0.01 mg/l	
28	Water Sample	Chromium	0.1 mg/l	0.1 mg/l	
29	Water Sample	Mercury	0.01 mg/l	0.01 mg/l	
30	Water Sample	Selenium	0.1 mg/l	0.1 mg/l	
31	Water Sample	Fluoride	0.5 mg/l	0.5 mg/l	
32	Water Sample	Sulfate	100 mg/l	100 mg/l	
33	Water Sample	Chloride	50 mg/l	50 mg/l	
34	Water Sample	Total Solids	200 mg/l	200 mg/l	
35	Water Sample	Calcium	100 mg/l	100 mg/l	
36	Water Sample	Magnesium	50 mg/l	50 mg/l	
37	Water Sample	Sodium	100 mg/l	100 mg/l	
38	Water Sample	Potassium	50 mg/l	50 mg/l	
39	Water Sample	Strontium	0.1 mg/l	0.1 mg/l	
40	Water Sample	Barium	0.1 mg/l	0.1 mg/l	
41	Water Sample	Lithium	0.1 mg/l	0.1 mg/l	
42	Water Sample	Vanadium	0.1 mg/l	0.1 mg/l	
43	Water Sample	Nickel	0.1 mg/l	0.1 mg/l	
44	Water Sample	Cobalt	0.1 mg/l	0.1 mg/l	
45	Water Sample	Molybdenum	0.1 mg/l	0.1 mg/l	
46	Water Sample	Antimony	0.1 mg/l	0.1 mg/l	
47	Water Sample	Bismuth	0.1 mg/l	0.1 mg/l	
48	Water Sample	Thallium	0.1 mg/l	0.1 mg/l	
49	Water Sample	Lead	0.1 mg/l	0.1 mg/l	
50	Water Sample	Cadmium	0.01 mg/l	0.01 mg/l	

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 - (B) Water Sample - after one week of reporting.
 - (C) Non - Perishable item - after four weeks of reporting.
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[Handwritten Signature]

Advanced Environmental Testing And Research Lab P. Ltd.



CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8

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Gwalior-474 011, M.P., India

☎0751-4099916 2232177

Email: aetri2016@gmail.com, aelgwalior@gmail.com



TEST REPORT (Soil)

Report No: AETRL/300524S0003

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	AETRL/300524S0003
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-01
Sampling Location	Mine Pit	Party Ref. No	NA
Sampling Date	28.05.2024	Receipt Date	30.05.2024
Sampling & Analysis Period	30.05.2024 to 06.06.2024	Latitude	-
Type of Sampling	Composite	Longitude	
Sample Quantity	01 Kg	Preservation	Yes
Parameter Required	Particle Distribution , Water Holding Capacity, Free Ammonical Nitrogen, Cu, Pb, Cd, Cr6+	Protocol Used	IS:2720(Part-1) 1983

RESULTS

S. No.	Parameters	Unit	Test Method	Results
1	Particle Distribution	mm	IS : 2720 (Part 4)	2.0
2	Water Holding Capacity	%	IS : 14765 : 2000	26.2
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	27.4
4	Copper	mg/kg	IS : 440 :1964	BDL<0.1
5	Lead	mg/kg	IS : 440 :1964	BDL<0.1
6	Cadmium	mg/kg	GECRC/SOIL/TP/14	BDL<0.05
7	Hexavalent Chromium	mg/kg	GECRC/SOIL/TP/13	BDL<0.01

BDL= BelowDetection Limit



Authorized Signatory:

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Subject to Terms & Condition Overleaf

Sl. No.	Sample Description	Parameter	Result	Remarks
1	Water Sample	pH	7.5	
2	Water Sample	Hardness	150	
3	Water Sample	Dissolved Solids	120	
4	Water Sample	Total Solids	180	
5	Water Sample	Chloride	45	
6	Water Sample	Sulfate	35	
7	Water Sample	Calcium	75	
8	Water Sample	Magnesium	45	
9	Water Sample	Iron	0.5	
10	Water Sample	Copper	0.1	
11	Water Sample	Zinc	0.2	
12	Water Sample	Nickel	0.05	
13	Water Sample	Manganese	0.1	
14	Water Sample	Lead	0.01	
15	Water Sample	Cadmium	0.005	
16	Water Sample	Mercury	0.001	
17	Water Sample	Chromium	0.02	
18	Water Sample	Fluoride	1.5	
19	Water Sample	Ammonia Nitrogen	0.5	
20	Water Sample	Nitrate Nitrogen	10	
21	Water Sample	Nitrite Nitrogen	0.5	
22	Water Sample	Total Nitrogen	1.5	
23	Water Sample	Total Phosphorus	0.5	
24	Water Sample	Orthophosphate	0.2	
25	Water Sample	Ammonium Phosphate	0.3	
26	Water Sample	Calcium Phosphate	0.05	
27	Water Sample	Biochemical Oxygen Demand (BOD)	5	
28	Water Sample	Chemical Oxygen Demand (COD)	15	
29	Water Sample	5-Day BOD (BOD ₅)	3	
30	Water Sample	Ultimate Carbonaceous BOD (CBOD)	10	
31	Water Sample	Free Chlorine Residual	0.5	
32	Water Sample	Total Chlorine Residual	0.5	
33	Water Sample	Free Chlorine Demand	0.5	
34	Water Sample	Total Chlorine Demand	0.5	
35	Water Sample	Free Chlorine	0.5	
36	Water Sample	Total Chlorine	0.5	
37	Water Sample	Free Chlorine	0.5	
38	Water Sample	Total Chlorine	0.5	
39	Water Sample	Free Chlorine	0.5	
40	Water Sample	Total Chlorine	0.5	

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TEST REPORT (Noise Quality)

Report No.: AETRL/300524N0009

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524N0009
Sampling Location	Pagra Working Pit	Format No.	7.5 F-04
Date of Monitoring	22.05.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.452853°
Instrument Used	Noise Meter	Longitude	81.203668°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	44
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	38.0	-	IS:9989-1981
2.	L _{max}	dB(A)	69.7	85 dB(A)	IS:9989-1981

Checked by:



Authorized Signatory

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Gwalior-474 011, M.P., India

☎0751- 4099916 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com



TEST REPORT (Noise Quality)

Report No.: AETRL/300524N0010

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524N0010
Sampling Location	Pagra mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	22.05.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453087°
Instrument Used	Noise Meter	Longitude	81.202935°
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	41
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	41.5	-	IS:9989-1981
2.	L _{max}	dB(A)	61.0	85 dB(A)	IS:9989-1981

Checked by:



****End of the Report****

Authorized Signatory

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Sl. No.	Sample Description	Parameter	Unit	Result	Remarks
1	Water Sample	pH		7.2	
2	Water Sample	Total Hardness	mg/L	150	
3	Water Sample	Dissolved Oxygen	mg/L	8.5	
4	Water Sample	Calcium	mg/L	75	
5	Water Sample	Magnesium	mg/L	75	
6	Water Sample	Total Solids	mg/L	200	
7	Water Sample	Suspended Solids	mg/L	100	
8	Water Sample	Dissolved Solids	mg/L	100	
9	Water Sample	Chloride	mg/L	100	
10	Water Sample	Sulfate	mg/L	100	
11	Water Sample	Iron	mg/L	0.5	
12	Water Sample	Copper	mg/L	0.1	
13	Water Sample	Zinc	mg/L	0.2	
14	Water Sample	Nitrate	mg/L	10	
15	Water Sample	Nitrite	mg/L	0.5	
16	Water Sample	Ammonia	mg/L	0.1	
17	Water Sample	Fluoride	mg/L	0.5	
18	Water Sample	Lead	mg/L	0.05	
19	Water Sample	Cadmium	mg/L	0.01	
20	Water Sample	Chromium	mg/L	0.05	
21	Water Sample	Mercury	mg/L	0.01	
22	Water Sample	Manganese	mg/L	0.5	
23	Water Sample	Selenium	mg/L	0.05	
24	Water Sample	Vanadium	mg/L	0.05	
25	Water Sample	Cobalt	mg/L	0.05	
26	Water Sample	Nickel	mg/L	0.05	
27	Water Sample	Molybdenum	mg/L	0.05	
28	Water Sample	Barium	mg/L	0.05	
29	Water Sample	Bismuth	mg/L	0.05	
30	Water Sample	Antimony	mg/L	0.05	
31	Water Sample	Strontium	mg/L	0.05	
32	Water Sample	Thallium	mg/L	0.05	
33	Water Sample	Lead	mg/L	0.05	
34	Water Sample	Cadmium	mg/L	0.01	
35	Water Sample	Chromium	mg/L	0.05	
36	Water Sample	Mercury	mg/L	0.01	
37	Water Sample	Manganese	mg/L	0.5	
38	Water Sample	Selenium	mg/L	0.05	
39	Water Sample	Vanadium	mg/L	0.05	
40	Water Sample	Cobalt	mg/L	0.05	
41	Water Sample	Nickel	mg/L	0.05	
42	Water Sample	Molybdenum	mg/L	0.05	
43	Water Sample	Barium	mg/L	0.05	
44	Water Sample	Bismuth	mg/L	0.05	
45	Water Sample	Antimony	mg/L	0.05	
46	Water Sample	Strontium	mg/L	0.05	
47	Water Sample	Thallium	mg/L	0.05	
48	Water Sample	Lead	mg/L	0.05	
49	Water Sample	Cadmium	mg/L	0.01	
50	Water Sample	Chromium	mg/L	0.05	
51	Water Sample	Mercury	mg/L	0.01	
52	Water Sample	Manganese	mg/L	0.5	
53	Water Sample	Selenium	mg/L	0.05	
54	Water Sample	Vanadium	mg/L	0.05	
55	Water Sample	Cobalt	mg/L	0.05	
56	Water Sample	Nickel	mg/L	0.05	
57	Water Sample	Molybdenum	mg/L	0.05	
58	Water Sample	Barium	mg/L	0.05	
59	Water Sample	Bismuth	mg/L	0.05	
60	Water Sample	Antimony	mg/L	0.05	
61	Water Sample	Strontium	mg/L	0.05	
62	Water Sample	Thallium	mg/L	0.05	
63	Water Sample	Lead	mg/L	0.05	
64	Water Sample	Cadmium	mg/L	0.01	
65	Water Sample	Chromium	mg/L	0.05	
66	Water Sample	Mercury	mg/L	0.01	
67	Water Sample	Manganese	mg/L	0.5	
68	Water Sample	Selenium	mg/L	0.05	
69	Water Sample	Vanadium	mg/L	0.05	
70	Water Sample	Cobalt	mg/L	0.05	
71	Water Sample	Nickel	mg/L	0.05	
72	Water Sample	Molybdenum	mg/L	0.05	
73	Water Sample	Barium	mg/L	0.05	
74	Water Sample	Bismuth	mg/L	0.05	
75	Water Sample	Antimony	mg/L	0.05	
76	Water Sample	Strontium	mg/L	0.05	
77	Water Sample	Thallium	mg/L	0.05	
78	Water Sample	Lead	mg/L	0.05	
79	Water Sample	Cadmium	mg/L	0.01	
80	Water Sample	Chromium	mg/L	0.05	
81	Water Sample	Mercury	mg/L	0.01	
82	Water Sample	Manganese	mg/L	0.5	
83	Water Sample	Selenium	mg/L	0.05	
84	Water Sample	Vanadium	mg/L	0.05	
85	Water Sample	Cobalt	mg/L	0.05	
86	Water Sample	Nickel	mg/L	0.05	
87	Water Sample	Molybdenum	mg/L	0.05	
88	Water Sample	Barium	mg/L	0.05	
89	Water Sample	Bismuth	mg/L	0.05	
90	Water Sample	Antimony	mg/L	0.05	
91	Water Sample	Strontium	mg/L	0.05	
92	Water Sample	Thallium	mg/L	0.05	
93	Water Sample	Lead	mg/L	0.05	
94	Water Sample	Cadmium	mg/L	0.01	
95	Water Sample	Chromium	mg/L	0.05	
96	Water Sample	Mercury	mg/L	0.01	
97	Water Sample	Manganese	mg/L	0.5	
98	Water Sample	Selenium	mg/L	0.05	
99	Water Sample	Vanadium	mg/L	0.05	
100	Water Sample	Cobalt	mg/L	0.05	

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TEST REPORT Work Place Monitoring (Dust)

Report No.: AETRL/300524G0012

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524G0012
Sampling Location	Pagra mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	24.05.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/49	Ambient Temperature - Ta (°C)	44
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	SPM, Silica, Crystalline Silica	Protocol Used	-

RESULTS

S. No.	Parameters	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	7.9	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.65	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.78	µg/m ³	-

Checked by:



Authorized Signatory

****End of the Report****

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Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Approved: by Bureau of International Quality Standards (ISO 45001:2018)
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Gwalior-474 011, M.P., India
☎0751-4099916 2232177
Email: aetrl2016@gmail.com, aelgwalior@gmail.com



TEST REPORT Work Place Monitoring (Dust)

Report No.: AETRL/300524G0011

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524G0011
Sampling Location	Pagra Working Pit	Format No.	7.5 F-04
Date of Monitoring	24.05.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/48	Ambient Temperature - Ta (°C)	41
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	SPM, Silica, Crystalline Silica	Protocol Used	-

RESULTS

S. No.	Parameters	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	5.6	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.36	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.53	µg/m ³	-

Checked by:



Authorized Signatory

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Sl. No.	Sample Description	Parameter	Method	Unit	Result	Remarks
1						
2						
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Advanced Environmental Testing And Research Lab P. Ltd.

CIN: U73100MP2002PTC015352

GSTIN: 23AAECA9188L1Z8



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
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TEST REPORT (Fugitive Emission)

Report No.: AETRL/300524G0004

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Fugitive Emission
		Sample Number	AETRL/300524G0004
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-02
Sampling Location	Village Bela (Transportation Point)	Party Ref. No	-
Date of Monitoring	25.05.2024	Receipt Date	30.05.2024
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	45
Surrounding activity	Human, Vehicle Activates	Meteorological Condition	Clear Sky
Parameter Required	SPM	Control measure if any	No Any
Instrument Used	RDS	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GECRC/EQP/25		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	139.4	µg/m ³	600.0

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]



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TEST REPORT (Fugitive Emission)

Report No.: AETRL/300524G0003

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Fugitive Emission
		Sample Number	AETRL/300524G0003
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-02
Sampling Location	Bela near Highway (Satna to Rewa) (Transportation Point)	Party Ref. No	-
Date of Monitoring	25.05.2024	Receipt Date	30.05.2024
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	44
Surrounding activity	Human, Vehicle Activates	Meteorological Condition	Clear Sky
Parameter Required	SPM	Control measure if any	No Any
Instrument Used	RDS	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GECRC/EQP/24		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	89.6	µg/m ³	600.0

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (I)]



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