

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:** Janardanpur Limestone Mine (ML Area: 575.830 ha) at Villages: Bairiha, Patarhai & Janardanpur, 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- 11015/13/2019-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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A Dalmia Bharat group company, [www.dalmiabharat.com](http://www.dalmiabharat.com)

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

<b>Proposal No</b>	IA/MP/MIN/89876/2018
<b>Compliance ID</b>	111899414
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/111899414/2024
<b>Reporting Year</b>	2024
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)
<b>Submission Date</b>	29-11-2024
<b>RO/SRO Name</b>	Shri Ashok Kumar Sinha
<b>RO/SRO Email</b>	tg035@ifs.nic.in
<b>State</b>	MADHYA PRADESH
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Bhopal

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

TAMUNIA

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

<b>Proposal Name</b>	Proposed Limestone Mine (ML Area: 575.830 ha) at Villages: Bairiha, Patarhai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh of M/s Dalmia Cement (Bharat) Ltd.		
<b>Name of Entity / Corporate Office</b>	Dalmia Cement (Bharat) Ltd.		
<b>Village(s)</b>	BAIRIHA		
<b>District</b>	SATNA		
<b>Proposal No.</b>	IA/MP/MIN/89876/2018	<b>Category</b>	Non-Coal Mining
<b>Plot / Survey / Khasra No.</b>		<b>Sub-District</b>	Rampur Baghelan
<b>State</b>	MADHYA PRADESH	<b>Entity's PAN</b>	*****9414C
<b>MoEF File No.</b>	IA-J-11015/13/2019-IA-II(M)	<b>Entity name as per PAN</b>	DALMIA CEMENT (BHARAT) LIMITED

**Compliance Reporting Details**

<b>Reporting Year</b>	2024
<b>Remarks (if any)</b>	
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)

**Details of Production and Project Area**

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

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	567.182	52.352
Revenue Land	0	0
Forest	0	0
Others	8.648	0
<b>Total</b>	<b>575.83</b>	<b>52.352</b>

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Limestone	Million Tons per Annum (MTPA)	31/08/2026	4.0	213 tons	4.0

**Conditions**

## Specific Conditions

Sr.No.	Condition Type	Condition Details
1	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.
<b>PPs Submission:</b> 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: 28/11/2024
2	GREENBELT	The Project Proponent shall undertake the plantation over 95.92 ha in peripheral zone and ensure that the plantation in peripheral zone and plantation along safety zone of nallah, road and habitation should be completed within 3 years from the date of commencement of mining operations with at least 90 percent survival rate. Causalities of the previous year should be replaced other than the saplings proposed to be planted every year.
<b>PPs Submission:</b> Agreed to Comply Noted. Mining activity such as Initial mine development work is under progress at site. Land purchase/acquisition is also under progress. Post acquiring the substantial contiguous land, mining operations with plantation/greenbelt development over 95.92 ha and plantation along safety zone of nallah, road and habitation will be carried out in desired manner. 200 nos of saplings have been planted along the road in Bairiha ML during this monsoon in addition to 200 nos. sapling planted in previous year. Attached Annexure- I.		Date: 28/11/2024
3	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.
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 28/11/2024
4	AIR QUALITY MONITORING AND PRESERVATION	The Project Proponent shall ensure that the air pollution control equipment like bag filter 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. The PP shall also undertake plantation all along the conveyor belt.
<b>PPs Submission:</b> Agreed to Comply Noted. It will be ensured that Air pollution control equipment as submitted in EIA/EMP report, such as Bag filters/dry fog system and automatic water spray system shall be installed at crusher. Crushed limestone shall be transported to interlinked cement project via covered conveyor belt to avoid generation of dust while transportation. Bag filters will be installed at each transfer points of conveyor belt. Plantation will be done all along the conveyor belt corridor.		Date: 28/11/2024
5	MISCELLANEOUS	The Project Proponent shall install conveyor belt from mines to cement plant and transportation is only through conveyor belt.
<b>PPs Submission:</b> Agreed to Comply Noted. At present mining activities are limited to initial mine development work only. However, crushed limestone shall be transported to the proposed interlinked cement project via covered conveyor belt.		Date: 28/11/2024
6	Statutory compliance	The Project Proponent should obtain permission for withdrawal of



		ground water.	
<b>PPs Submission:</b> Complied Complied. CGWA NOC has been obtained for ground water abstraction and ground water seepage vide NOC dated 11/11/2021. DCBL has applied for extension of NoC validity on 27.06.2023 as no water abstraction was taken up during the period. The NoC validity extension is awaited against pending inspection.			<b>Date:</b> 20/11/2024
7	LAND RECLAMATION	The topsoil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	
<b>PPs Submission:</b> Agreed to Comply Noted. Top soil will be temporarily stored at earmarked place in accordance with the approved mining plan and will be simultaneously used for greenbelt development/plantation in 7.5 m safety zone along ML boundary and in safety barrier along protective area. Topsoil will also be used for topping of the backfilled area to develop it for agriculture use.			<b>Date:</b> 20/11/2024
8	MISCELLANEOUS	A seasonal nala namely Dila nala is excluded during grant of ML from the mining lease area which divided the mining lease in blocks and 50 m safety barrier along the nala will be left along the Nala and thick plantation shall be developed as a safety barrier.	
<b>PPs Submission:</b> Agreed to Comply Noted. 50 m safety barrier will be left along the Nala and thick plantation will be undertaken in Safety barrier of Nala within mine lease as per the Action Plan submitted during grant of EC.			<b>Date:</b> 20/11/2024
9	Human Health Environment	Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.	
<b>PPs Submission:</b> Agreed to Comply Noted. At present mining activities are limited to initial mine development work only. Regular health checkup will be done as per DGMS guidelines.			<b>Date:</b> 20/11/2024
10	MISCELLANEOUS	The Project Proponent should develop community infrastructure including COVID health Centre at Village panchayats Janardanpur, Jamuna and Bairiha, providing Oxygen concentrators, beds, PPE Kits, Covid Care, support in vaccination, Awareness for COVID etc. with the proposed budgetary provision of Rs.150 lakhs as mentioned in letter no nil dated 13.06.2021.	
<b>PPs Submission:</b> Partially Complied Noted. Support extended during Covid-19 pandemic by distributing masks, sanitizers in all villages. Ration support for 300 under privileged families. (Details submitted with previous compliance report)			<b>Date:</b> 27/11/2024
11	WATER QUALITY MONITORING AND PRESERVATION	The Project Proponent should undertake regular monitoring of ground water level and surface water quality and take preventive measures for protection of water bodies within the lease area as well as nearby the mines.	
<b>PPs Submission:</b> Agreed to Comply Noted. Ground Water level and surface water quality is being monitored regularly. All preventive measures will be undertaken for protection of nearby water bodies.			<b>Date:</b> 28/11/2024
12	PUBLIC HEARING	The budget of Rs 6.0 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.	

<b>PPs Submission: Being Complied</b> Being Complied. Currently, the mining activities is limited to initial mine development and land purchase. However, following activities has been undertaken as per the Action Plan submitted during grant of EC: 1. Construction of the 230m long boundary wall was completed for Patarhai Primary School. 2 Nos steel gate were also fixed. 2. Support extended during Covid-19 pandemic by distributing masks, sanitizers in all villages. Ration support for 300 under privileged families. Total Cost Rs 0.79 Lakh. 3. 10 computers given to Govt High School Bairiha for enhancement of quality education. Total Cost Rs 2.89 Lakh. 4. 180 Meter CC road completed in village Janardanpur, near Baba Kangaldas Mandir in adiwasi mohalla. Total Cost Rs 7.49 Lakh. 5. Supply and Laying of Murrum on village Road against demand of Gram Panchayat in Patarhai Village. Rs 2.33 Lakh. 6. Imparting training for skill development through Dalmia Institute of Knowledge and Skill Harnessing (DiKSHA) for youths of Janardanpur, Patarhai and Bairiha villages. Total Cost Rs 21.86 Lakh. 7. Sustainable Livelihood Development Program implementation through Dalmia Bharat Foundation (DBF) for upliftment of Women, Animal Husbandry and Agriculture. Total Cost Rs 19.79 Lakh. (Details submitted with previous Compliance report). 8. About 1500 numbers of fruit bearing saplings have been distributed to the Bairiha and Janardanpur Gram Panchayat.		Date: 27/11/2024
13	MISCELLANEOUS	The Project Proponent shall conduct the detailed hydrogeological study and obtain the NOC from CGWA before intersection of ground water table. The mining operations shall be restricted to above ground water table and it should not intersect the ground water table till obtain the NOC from the CGWA.
<b>PPs Submission: Complied</b> Noted. Detailed Hydrogeological study have been undertaken by JM EnviroNet Pvt. Ltd. for Hydro-geological evaluation during grant of EC. CGWA NOC has been obtained for ground water abstraction and ground water seepage vide NOC no CGWA/NOC/MIN/ORIG/2021/13700 dated 11/11/2021 and valid upto 10/11/2023. (Submitted with previous Compliance report) Again DCBL has applied for extension of validity of existing NOC for further period of 2 years on date 27.06.2023. The NOC validity extension is awaited against pending inspection. The application letter is attached in Annexure-II . Hydrogeological Study report has already been submitted with previous Compliance report.		Date: 27/11/2024
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	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.
<b>PPs Submission: Agreed to Comply</b> Time bound action plan was prepared as per MoEFCC Office Memorandum No.22-65/2017-IA. III dated 30 September, 2020 and submitted during grant of EC. Time bound action plan with budgetary provisions is already submitted with the previous Compliance report. Copy of submission of the same to RO, MOEFCC dated 01.12.2021 was 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.		Date: 20/11/2024
2	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..

<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 20/11/2024
3	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.
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 20/11/2024
4	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.
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 20/11/2024
5	Statutory compliance	The Project Proponent shall follow the mitigation measures provided in MoEF&Cc 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".
<b>PPs Submission:</b> Agreed to Comply Noted. All measures in approved mining plan and DGMS guideline to mitigate habitation related issues will be adhered to, when workings carried out near habitations.		Date: 28/11/2024
6	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.
<b>PPs Submission:</b> Complied Complied. (Submitted with previous compliance report)		Date: 20/11/2024
7	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.
<b>PPs Submission:</b> Complied Noted.		Date: 20/11/2024
8	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 ( <a href="http://www.environmentalclearance.nic.in">www.environmentalclearance.nic.in</a> ). A copy of the advertisement



		may be forwarded to the concerned MoEF&Cc Regional Office for compliance and record.	
	<b>PPs Submission: Complied</b> 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. Copy of Advertisements were submitted with previous compliance report. Newspapers with advertisement have been submitted to the Regional Office of MoEFCC. (Submitted acknowledgement Copy with earlier compliance report).		Date: 20/11/2024
9	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.	
	<b>PPs Submission: Agreed to Comply</b> Noted.		Date: 20/11/2024
10	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.	
	<b>PPs Submission: Agreed to Comply</b> Noted. Currently only development work has been initiated at site and simultaneously land purchase is being done. 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 within 03 months in front of the main Gate of the mine site.		Date: 20/11/2024
11	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.	
	<b>PPs Submission: Agreed to Comply</b> Noted and being complied. With the start of mining operation, regular water sprinkling will be done on haul road, loading and unloading and at transfer points to control fugitive dust emissions. Bag filters and automatic water spray system shall be installed at crusher. Emission generation will be		Date: 20/11/2024

		regularly controlled and will be kept within the standard specified by MOEFCC/CPCB. At present, mining activities limited to mine development and not carried out on regular basis. Water tankers for water sprinkling are hired as and when required during development. The AAQ monitoring report is attached as Annexure-IV.	
12	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	
	<b>PPs Submission:</b> Agreed to Comply Noted. There is no dump formation during this compliance period. OB/waste excavated will be dumped temporarily as it will be simultaneously used for preparation of ramp and platform for crusher and backfilling. However, physical parameters of the OB dumps will be maintained as per the approved Mining Plan and as per the guidelines/circulars issued by D.G.M.S. Topsoil will be dumped temporarily at northern side of the proposed working area and will be used for land reclamation and plantation. There will not be any dumps at conceptual stage.		Date: 28/11/2024
13	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.	
	<b>PPs Submission:</b> Agreed to Comply Noted. No dump has been formed during this compliance period. As per the approved mining plan, there will be temporary dumps as OB/waste will be simultaneously used for backfilling and topsoil will be simultaneously used for greenbelt/plantation in safety barrier and for topping of backfilled area. However, all recommended measures for stability of dumps as and when developed such as slope, height and terrace of dumps, construction of garland drains and retaining walls etc. will be undertaken as per approved mining plan and guidelines of DGMS.		Date: 20/11/2024
14	LAND RECLAMATION	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.	
	<b>PPs Submission:</b> Agreed to Comply Noted. As mentioned above that as per Approved Mining Plan, protective measures such as Garland drains along with settling tanks, siltation ponds, retaining walls etc. will be constructed at base of dumps to arrest silt and sediments.		Date: 20/11/2024
15	LAND RECLAMATION	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.
<b>PPs Submission:</b> Agreed to Comply Noted. At present mining activities are limited to initial mine development work only. Protective measures will be adopted during the progress of the mine.		Date: 28/11/2024
16	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>
<b>PPs Submission:</b> Agreed to Comply Noted. Limestone from the mine shall be transported to the interlinked cement project by covered conveyor belt.		Date: 20/11/2024
17	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 equipment's 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>
<b>PPs Submission:</b> Agreed to Comply Noted. Currently, Water tankers are hired as and when required as the mining activities are limited to initial land development and not carried out on regular basis. 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 , Bag filters will be installed at crusher and transfer points on conveyor belt, use of covered conveyor belt etc.		Date: 20/11/2024
18	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>

<b>PPs Submission:</b> Agreed to Comply Noted. The mining activities is currently limited to initial mine development and land purchase. Safety barrier (No mining zone) of 7.5m is demarcated all along the ML boundary and soon after, land development activities and land purchase, greenbelt will be developed as per guidelines of CPCB and as per approved mining plan.		Date: 20/11/2024
19	GREENBELT	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.
<b>PPs Submission:</b> Agreed to Comply Noted. No major mining activities have been undertaken after grant of EC and CTO except the initial land development and land purchase. Consultation with DFO, Satna is in progress for development of greenbelt/plantation. Letter submitted to the concerned DFO was submitted with previous Compliance report.		Date: 20/11/2024
20	GREENBELT	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.
<b>PPs Submission:</b> Agreed to Comply Noted. No grazing land falls within ML area.		Date: 20/11/2024
21	Human Health Environment	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.
<b>PPs Submission:</b> Agreed to Comply Noted. The mining operation is limited to initial land development and land purchase during this compliance period. Being mining project, no major construction will be done except mines office, crusher etc. As local people will be engaged during construction and operation phase, provision for housing for workers will not be required. However, all necessary facilities will be provided. Currently, mining activities are being carried out intermittently with limited manpower. 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. During later years when the mine will be operating at full capacity, domestic waste water will be treated in proposed STP and treated water will be used for plantation purpose.		Date: 20/11/2024
22	WATER QUALITY MONITORING AND	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational

	PRESERVATION	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 MoEF&Cc 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.
<b>PPs Submission:</b> Being Complied Being Complied. Detailed Hydrogeological study have been undertaken by JM EnviroNet Pvt. Ltd. for Hydro-geological evaluation. As per the evaluation, it is observed that there will be groundwater seepage in the mine pits or groundwater intersection by mine workings during the plan period. CGWA NOC has been obtained for ground water abstraction and ground water seepage vide NOC dated 11/11/2021. DCBL has applied for extension of NOC validity on 27.06.2023 as no water abstraction was taken up during the period. The NOC validity extension is awaited against pending inspection.		Date: 20/11/2024
23	WATER QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Agreed to Comply Noted. During this compliance period, no major mining activities have been undertaken. Currently, the mining activities is limited to mine development and land purchase. No ground water has been abstracted during this compliance period. However, prior to ground water abstraction, to monitor the water level and quality, a network of existing wells and installation of new piezo-meters in consultation with concerned department will be established.		Date: 20/11/2024
24	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 MoEF&Cc. 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.
<b>PPs Submission:</b> Agreed to Comply Noted. The ground water monitoring data for the period is attached as Annexure-IV.		Date: 20/11/2024
25	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.
<b>PPs Submission:</b> Agreed to Comply Noted. No effluent has been generated during this compliance period due to the limited land development activities. However, the effluent generated from workshop, will be monitored regularly and monitored data will be uploaded/displayed as prescribed.		Date: 20/11/2024
26	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.
<b>PPs Submission:</b> Agreed to Comply Noted. Hydrogeological Study including Rain Water Harvesting Plan was prepared and submitted to CGWA along with the Application for NOC. NOC has been obtained from CGWA vide NOC dated 11/11/2021. DCBL has applied for extension of NOC validity on 27.06.2023 as no water abstraction was taken up during the period. The NOC validity extension is awaited against pending inspection. Rain water harvesting plan submitted to CGWA will be implemented. Copy of the same is already submitted with previous Compliance report.		Date: 20/11/2024
27	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.
<b>PPs Submission:</b> Agreed to Comply Noted. Currently, no waste water is generated during this compliance period as only land development work at mine site has been undertaken along with land purchase. However, with the advancement of mining activities, 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.		Date: 28/11/2024
28	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.
<b>PPs Submission:</b> Partially Complied Noted. At present mining activities are limited to initial mine development work only and abstraction of ground water is not carried out in the area.		Date: 26/11/2024
29	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.
<b>PPs Submission:</b> Agreed to Comply Noted. PPV will be monitored when permission for blasting is obtained and blasting is carried out as per DGMS SOP.		Date: 20/11/2024

30	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.
<b>PPs Submission:</b> Agreed to Comply Noted. Mining operations will be carried out as per approved mining plan and adequate measures such as scheduling/ proper maintenance will be carried out to remove/reduce disturbance for the nearby habitation.		Date: 20/11/2024
31	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.
<b>PPs Submission:</b> Being Complied Noted. At present mining activities are limited to initial mine development work only.		Date: 20/11/2024
32	MINING PLAN	The Project Proponent shall adhere to approved mining plan, inter alia, including total excavation (quantum of mineral, waste, over burden, inter burden 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.
<b>PPs Submission:</b> Agreed to Comply Noted. Mining operation limited to land purchase and initial land development. Mining Operations will be carried out in accordance with the approved mining plan.		Date: 20/11/2024
33	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.
<b>PPs Submission:</b> 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: 20/11/2024
34	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.



<b>PPs Submission:</b> Agreed to Comply Noted. Digital maps will be prepared and submitted once in five years to Regional Office of the MoEFCC Bhopal.		Date: 20/11/2024
35	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.
<b>PPs Submission:</b> Agreed to Comply Noted. At present mining activities are limited to initial mine development work and land purchase only.		Date: 20/11/2024
36	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.
<b>PPs Submission:</b> Agreed to Comply Noted. Six monthly compliance report are being prepared and submitted to the MOEFCC and its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board regularly.		Date: 20/11/2024
37	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.
<b>PPs Submission:</b> Agreed to Comply Noted. Adequate number of qualified Environmental Scientists and Mining Engineers have been appointed to oversee work.		Date: 20/11/2024
38	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.
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 20/11/2024
39	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 re-grassing 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.
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 20/11/2024
40	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: 20/11/2024				
41	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: 20/11/2024				
<div>Visit Remarks</div> <table border="1"> <tr> <td>Last Site Visit Report Date:</td> <td>N/A</td> </tr> <tr> <td>Additional Remarks:</td> <td>1. The land purchased is in small parcels and scattered form.</td> </tr> </table> <p><b>Note:</b> 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.</p>			Last Site Visit Report Date:	N/A	Additional Remarks:	1. The land purchased is in small parcels and scattered form.
Last Site Visit Report Date:	N/A					
Additional Remarks:	1. The land purchased is in small parcels and scattered form.					



**Photographs Showing Plantation at Janardanpur Mines:****Details of Saplings Planted at Janardanpur ML area:**

Dalmia Cement Bharat Limited		
Janardanpur Limestone Mine		
Sr. No.	Name of Tree	No. of Saplings
1	Amla	30
2	Bahera	30
3	Amrud	30
4	Karanj	110
Total		200

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**From:** Central Ground Water Authority <[cgwa@nic.in](mailto:cgwa@nic.in)>

**Sent:** 01 April 2024 15:05

**To:** Sh A K Biswal <[rdncr-cgwb@nic.in](mailto:rdncr-cgwb@nic.in)>; cgwancr-cgwb <[cgwancr-cgwb@nic.in](mailto:cgwancr-cgwb@nic.in)>

**Cc:** Head Environment <[env.head@dalmiacement.com](mailto:env.head@dalmiacement.com)>

**Subject:** [EXTERNAL] Fwd: Proposed Limestone Mine (ML Area: 575.830 ha) (21-4/1074/MP/MIN/2020) at Villages: Bairiha, Patarhai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh by M/s Dalmia Cement (Bharat) Ltd (DCBL) – Request for Extensio...

**CAUTION:** This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sir,

With reference to the trailing mail and request to consider the case for extension of NOC validity i.r.o. Application no. 21-4/1074/MP/MIN/2020 (Proposed Limestone Mine (ML Area: 575.830 ha), it is requested to conduct the site inspection of the project for validating the present status **at the earliest**. Also, kindly submit the report with recommendations to CGWA Hq by return mail for further necessary action.

Regards,

**O/o सदस्य सचिव Member Secretary,**

**केंद्रीय भूजल प्राधिकरण Central Ground Water Authority**

जल शक्ति मंत्रालय, भारत सरकार Ministry of Jal Shakti, Govt. of India

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली-110011

18/11, Jamnagar House, Mansingh Road, New Delhi-110011  
Ph- (011) 23383824; Fax- (011) 23382051; e-mail: [cgwa@nic.in](mailto:cgwa@nic.in)



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**From:** "env head" <[env.head@dalmiacement.com](mailto:env.head@dalmiacement.com)>  
**To:** "Central Ground Water Authority" <[cgwa@nic.in](mailto:cgwa@nic.in)>  
**Sent:** Tuesday, December 5, 2023 11:05:03 AM  
**Subject:** Fw: Proposed Limestone Mine (ML Area: 575.830 ha) at Villages: Bairiha, Patarhai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh by M/s Dalmia Cement (Bharat) Ltd (DCBL) – Request for Extension of Validity of Existing NOC regard...

Dear Sir,

We would like to mention that, as per the provision of issued guideline vide Notification S.O. 3289(E) dated 24.09.2020 which states that *"in case proponent is unable to construct the well(s) during the validity period, then PP can apply for EXTENSION OF VALIDITY OF EXISTING NOC"*.

Considering the same, we have applied offline (via mail) to Regional Director, Central Ground Water Board, North Central Region, Bhopal for Extension of Validity of Existing NOC for further period of 2 years in line with the provision as specified under para 12 of the Notification S.O. 3289(E) dated 24.09.2020. **(Copy of Application is enclosed as Annexure-1)**

Also, in line with the guideline (Step by Step guide) issued by CGWA, payment of **Rs. 5000** was made in **Penalty 070202800020000-MISC. RECEIPTS** head at <https://bharatkosh.gov.in/> vide Transaction Ref. No. 2106230008994 dated 21.06.2023. **(Bharatkosh Receipt enclosed as Annexure-2)**

Therefore, we request your good self to kindly grant us the Extension of Validity of Existing NOC for further period of 2 years.

Thanking you,

Yours faithfully,  
**For Dalmia Cement (Bharat) Limited**

**(V. Karthikeyan)**  
**Deputy Executive Director**

**Encl: As above**

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**From:** Head Environment  
**Sent:** 27 June 2023 10:43  
**To:** Central Ground Water Authority <[cgwa@nic.in](mailto:cgwa@nic.in)>  
**Subject:** Proposed Limestone Mine (ML Area: 575.830 ha) at Villages: Bairiha, Patarhai & Janardanpur, Tehsil: Rampur



Baghelan, District: Satna, Madhya Pradesh by M/s Dalmia Cement (Bharat) Ltd (DCBL) – Request for Extension of Validity of Existing NOC regarding.

To  
Member Secretary,  
Central Ground Water Authority,  
Gallery 18/11, Jamnagar House,  
New Delhi-110011.

**Subject:** Proposed Limestone Mine (ML Area: 575.830 ha) at Villages: Bairiha, Patarhai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh by M/s Dalmia Cement (Bharat) Ltd (DCBL) – **Request for Extension of Validity of Existing NOC regarding.**

**Ref:** 1. NOC No: CGWA/NOC/MIN/ORIG/2021/13700 dated 11/11/2021 and valid upto 10/11/2023.

Dear Sir,

With reference to aforesaid subject and above cited reference matter; we would like to bring to your kind notice that CGWA NOC has been obtained for ground water abstraction and ground water seepage for the said project vide NOC No: CGWA/NOC/MIN/ORIG/2021/13700 dated 11/11/2021 and valid upto 10/11/2023. **(Copy enclosed- Annexure-1).**

We would like to mention that the purchase of Land required for the said mining project is incomplete. Due to unavailability of contiguous Land, the mining operations has not been started at the reasonable capacity and we have neither constructed any of the proposed Tube well(s) for ground water abstraction nor abstracted any groundwater during the validity period of No Objection Certificate. As the land purchase is still going on, we anticipate to construct the proposed Tube well(s) after the completion of land purchase.

Considering the same, we request your good self to kindly grant us the Extension of Validity of Existing NOC for further period of 2 years in line with the provision as specified under para 12 of the Notification **S.O. 3289(E)** dated 24.09.2020. In line with the guideline issued by CGWA, payment of Rs. 5000 has been made in Penalty 070202800020000-MISC. RECEIPTS head at <https://bharatkosh.gov.in/> vide **Transaction Ref. No. 2106230008994** dated 21.06.2023. **(Copy enclosed- Annexure-2)**

Thanking you and with regards,

Yours faithfully,  
**For Dalmia Cement (Bharat) Limited**

**(V. Karthikeyan)**  
**Deputy Executive Director**

**Encl: As above**

Date: 21.06.2023

To  
Member Secretary,  
Central Ground Water Authority,  
Gallery 18/11, Jamnagar House,  
New Delhi-110011.

**Subject:** Proposed Limestone Mine (ML Area: 575.830 ha) at Villages: Bairiha, Patarhai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh by M/s Dalmia Cement (Bharat) Ltd (DCBL) – **Request for Extension of Validity of Existing NOC regarding.**

**Ref:** 1. NOC No: CGWA/NOC/MIN/ORIG/2021/13700 dated 11/11/2021 and valid upto 10/11/2023.

Dear Sir,

With reference to aforesaid subject and above cited reference matter; we would like to bring to your kind notice that CGWA NOC has been obtained for ground water abstraction and ground water seepage for the said project vide NOC No: CGWA/NOC/MIN/ORIG/2021/13700 dated 11/11/2021 and valid upto 10/11/2023. **(Copy enclosed- Annexure-1).**

We would like to mention that the purchase of Land required for the said mining project is incomplete. Due to unavailability of contiguous Land, the mining operations has not been started at the reasonable capacity and we have neither constructed any of the proposed Tube well(s) for ground water abstraction nor abstracted any groundwater during the validity period of No Objection Certificate. As the land purchase is still going on, we anticipate to construct the proposed Tube well(s) after the completion of land purchase.

Considering the same, we request your good self to kindly grant us the Extension of Validity of Existing NOC for further period of 2 years in line with the provision as specified under para 12 of the Notification **S.O. 3289(E)** dated 24.09.2020. In line with the guideline issued by CGWA, payment of Rs. 5000 has been made in Penalty 070202800020000-MISC. RECEIPTS head at <https://bharatkosh.gov.in/> vide **Transaction Ref. No. 2106230008994** dated 21.06.2023. **(Copy enclosed- Annexure-2)**

Thanking you and with regards,

Yours faithfully,

**For Dalmia Cement (Bharat) Limited**

  
(V. Karthikeyan) 21/6/23  
Deputy Executive Director

Encl: As above



भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन, नदी विकास  
और गंगा संरक्षण विभाग  
केन्द्रीय भूमि जल प्राधिकरण  
Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	Proposed Limestone Mine_ml Area 575.830 Ha		
Project Address:	Located At Villages Bairiha, Patarhai And Janardanpur, Tehsil Rampur Baghelan		
Village:	Bairiha	Block:	Rampur Baghelan
District:	Satna	State:	Madhya Pradesh
Pin Code:			
Communication Address:	Mr. V. Karthikeyan (deputy Executive Director), Dalmia Cement (bharat) Ltd., 11th And 12th Floor, Hansalaya Building, 15, Barakhamba Road, Karol Bagh, Central, Delhi - 110001		
Address of CGWB Regional Office :	Central Ground Water Board North Central Region, Block-1, 4th Floor, Paryawas Bhawan, Area Hills, Jail Road, Bhopal, Madhya Pradesh - 462011		

1.	NOC No.:		CGWA/NOC/MIN/ORIG/2021/13700											
2.	Application No.:		21-4/1074/MP/MIN/2020					3.	Category: (GWRE 2020)		Semi Critical			
4.	Project Status:		New Project					5.	NOC Type:		New			
6.	Valid from:		11/11/2021					7.	Valid up to:		10/11/2023			
8.	Ground Water Abstraction Permitted:													
Fresh Water			Saline Water				Dewatering			Total				
m³/day		m³/year	m³/day		m³/year		m³/day		m³/year		m³/day		m³/year	
90.00		27000.00					329.00		9870.00					
9.	Details of ground water abstraction /Dewatering structures													
Total Existing No.:0							Total Proposed No.:2							
		DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction Structure*		0	0	0	0	0	0	0	0	1	0	0	0	
Dewatering Structure*		0	0	0	0	0	0	0	0	0	0	1	0	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps														
10.	Ground Water Abstraction/Restoration Charges paid (Rs.):							314250.00						
11.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers		Monitoring Mechanism						
Manual								DWLR**		DWLR With Telemetry				
**DWLR - Digital Water Level Recorder						1		0		1		0		

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये  
SAVE WATER - SAVE LIFE

**Validity of this NOC shall be subject to compliance of the following conditions:**

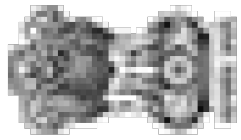
**Mandatory conditions:**

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website ([www.cgwa-noc.gov.in](http://www.cgwa-noc.gov.in)) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

**General conditions:**

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m<sup>3</sup>/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

**(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)**



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Government of India Receipt Portal

## RECEIPT

Transaction Ref.No. 2106230008994      Dated: Jun 21 2023 12:37PM

Received from M/S. DALMIA CEMENT BHARAT LTD with Transaction  
Ref.No. 2106230008994

Dated Jun 21 2023 12:37PM the sum of INR 5000 (Five Thousand Only)  
through Internet based Online payment in the account of

Penalty, , Fee for Extension of Existing NOC of Janardanpur Mine.

**Disclaimer:- This is a system generated electronic receipt, hence no physical signature  
is required for the purpose of authentication**

*Printed On: 21-06-2023 05:11:25*

**Courtesy :- Controller General of Accounts**





## Consent Order

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: 140132

Outward No:115409,29/04/2022

Consent No:AW-55797

To,  
The Occupier,  
M/s. Dalmia Cement (Bharat) Limited,  
12,14,15,2,3,4,708,709,710 etc., Villages: Bairiha, Patarhai & Janardanpur,  
City : Janardanpur, Dist : Satna, Tal : Rampur Baghelan,  
SIDC : Latitude : 24.5778 Longitude : 81.0542

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: Your Renewal of Consent Application Receipt No. 1130227 Dt. 21/03/2022 and last communication received on .29/03/2022

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 **31/08/2026**, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

### SUBJECT TO THE FOLLOWING CONDITIONS :-

- a. Location: K h No. 12,14,15,2,3,4,708,709,710 etc., Villages: Bairiha, Patarhai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna (M. P.)
- b. Mining Lease area: 575.830 ha
- c. Product & Production Capacity:

Product / Activity	Qty / year
Mining of Limestone	40,00,000 Metric Ton Per Year

Note:- (1) For any change in above industry shall obtain fresh consent from the Board.

- (2) Presently out of the 575.830 Hact. sanctioned mining lease area, the PP is having land ownership of only 22.91 Hact. that too in 10 different patches. Hence PP shall ensure that all area required to start the Mining Activities & for the Environment Conservation activities like Top soil storage, OB Storage, Plantation etc in compliance of EC conditions is acquired before start of the mining activities so that the required environmental protection can be ascertained along with start of the mining activity. PP shall inform the Board regarding compliance of land ownership in advance before start of mining activities.
- (3) PP shall ensure that mining is done in sanctioned lease area as per valid mining plan approved by the Regional Controller of Mines IBM Jabalpur vide letter NO. 7044 Dt. 06.12.2018 & in compliance of the conditions laid in EC granted by MoEF & CC GOI vide Letter No.J- 11015/13/2019 - IA.II (M) Dt.26.07.2021.
- (4) PP shall ensure that solid waste generated during mining process & during the cutting process shall be stacked at earmarked site which shall be properly surrounded by garland drain & settling pit of adequate size so that no Soil/Silt/waste rock is discharged outside the mine lease area/ near by water body blocking the natural flow of the nearby nallah/river/pond.

The Validity of the consent is up to **31/08/2026** 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.)

**eSign**  
Digitally Sign with Aadhaar

Signature Not Verified  
Digitally Signed by : A. A  
Mishra, Member Secretary  
Date: 29/04/2022 02:45:41 PM

**ACHYUT ANAND MISHRA**  
Member Secretary

(Organic Authentication on AADHAR from UIDAI Server)  
TPAV # U18IGVIOA8





## Consent Order

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

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

1. The daily quantity of trade effluent shall not exceed 9.000 KL/day from the Workshop & Treated water recycled/rused for Dust Suppression. Quantity of sewage shall not exceed 3.75 KL/day & it shall be treated using Septic tank Soak pit.

#### **2. Trade Effluent Treatment:-**

The applicant shall provide comprehensive 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 provide comprehensive sewage 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
Suspended Solids	Not exceed	100 mg/l.
BOD <sub>3</sub> Days 27°C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.
Total Colliform	Not exceed	1000 (MPN/100ML)

Sr	Water Code (Qty in klpd - Kilo Ltr per Day)	WC : 90.00	WWG : 12.75	Water Source	Remark
1	Domestic Purpose	5.000	3.750	Borewell	Eff. treated through Septic tank Soak pit
2	Dust Suppression	40.000	0.000	Mine Water	Mine pit water to be used on priority.
3	Others (Workshop)	10.000	9.000	Mine water	Workshop-Treated water will be recycled.
4	Plantation / Horticulture	35.000	0.000	Mine Water	Mine pit water to be used for Plantation along haul road and statutory barrier

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-55797**





## **Consent Order**

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

### **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 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 Sludges, 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 By pass 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.

### **Additional Water condition:-**

- 1) Mine management shall ensure to prevent the flow of silt in to the nearby water body.
- 2) Mine shall treat the mine water to such an extent that it should meet the quality of water source for different beneficial use

**Consent No:AW-55797**





## Consent Order

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

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

1. The applicant shall provide comprehensive air pollution control system consisting of control equipments as per the proposal submitted to the Board with reference to generation of emission and same shall be operated & maintained continuously so as to achieve the level of pollutants to the following standards:-

Sr	Stack attached to	Stack Height (Mts)	APCM to be installed	Emission limits PM - Mg / NM <sup>3</sup>
1	1200 TPH Crusher with Wobbler	30 meters	Bag Filter Water Sprinklers	50.0 Mg / NM <sup>3</sup>

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  $\mu\text{g}/\text{m}^3$  (PM<sub>10</sub>  $\mu\text{g}/\text{m}^3$  24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60  $\mu\text{g}/\text{m}^3$  (PM<sub>2.5</sub>  $\mu\text{g}/\text{m}^3$  24 hrs. basis)
- Sulphur Dioxide [SO<sub>2</sub>] (24 hrs. Basis) - 80  $\mu\text{g}/\text{m}^3$
- Nitrogen Oxides [NO<sub>x</sub>] (24 hrs. Basis) - 80  $\mu\text{g}/\text{m}^3$
- Carbon Monoxide [CO] (8 hrs. Basis) - 2000  $\mu\text{g}/\text{m}^3$

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. 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.

7. 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..

### Additional Air condition:-

- 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.
- 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
- Major approach roads and haul roads shall be metal topped.
- Transportation of material shall be through Belt conveyor system duly covered and equipped with water sprinkling system.
- Crushers and material transfer points shall be provided with Bag filter or dry fogging system.
- Drills shall be wet operated to reduce the fugitive emission.
- Mining area should be surrounded by green belt having thick canopy of the tree cover.
- 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.
- Sufficient number of tankers for water sprinkling shall be provided for control of fugitive emission from road transportation.
- Vehicle used for transportation of minerals / material shall be PU certified and properly maintained to reduce the noise

Consent No:AW-55797





## Consent Order

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

### 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 bags 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:-

- Mine management shall provide munare of cement structure to show the lease boundary along with the geographical location in latitude and longitude.
- 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.
- Adequate & effective precautionary measures shall be taken before and during operation, maintenance and cleaning of pollution control system to avoid any accidental hazard.

**Consent No:AW-55797**





## Consent Order

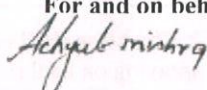
M.P. Pollution Control Board  
E-5, Arera Colony  
Paryavaran Parisar, Bhopal - 16 MP  
Tele : 0755-2466191, Fax-0755-2463742

4. Extensive tree plantation shall be carried out in open areas available within and around the mine premises in consultation with expert agency. Good house keeping practice shall be adopted.
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 near by 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 conditions mentioned in Environmental Clearance order.
13. Mine shall comply 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 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.**

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TPAV # U18IGVIOA8

For and on behalf of  
M.P.  Board

ACHYUT ANAND MISHRA  
Member Secretary

**Consent No:AW-55797**



# Advanced Environmental Testing And Research Lab P. Ltd.



CIN : U743100MP2002PTC015352

GSTIN : 23AAECA9188L1Z8

Approved : by Occupational Health &amp; 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&amp;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



TC-12780

## TEST REPORT

(Ambient Air)

Report No.: AETRL/070924A0001

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur -Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924A0001
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	03.09.2024 to 04.09.2024	Party Ref. No.	-
Time of Monitoring	1140 min.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.57136°
Instrument calibration status	Calibrated	Longitude	81.058973°
Surrounding activity	Human, Vehicle Activates	Ambient Temperature - Ta (°C)	32
Parameter Required	PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>2</sub> , SO <sub>2</sub> , CO, O <sub>3</sub> , NH <sub>3</sub>	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/25, GECRC/EQP/26, GECRC/EQP/25(a)	Protocol Used	IS:5182 & CPCB Guidelines

## RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter (PM <sub>10</sub> )	IS-5182 (Part-23)	80.2	µg/m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	GECRC/AIR/TP/05	43.3	µg/m <sup>3</sup>	60
3.	Nitrogen dioxide (NO <sub>2</sub> )	IS: 5182 (Part-6)	21.6	µg/m <sup>3</sup>	80
4.	Sulphur dioxide (SO <sub>2</sub> )	IS: 5182 (Part-2)	9.4	µg/m <sup>3</sup>	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m <sup>3</sup>	04
6.	Ozone (O <sub>3</sub> )	IS: 5182 (Part-9)	17.8	µg/m <sup>3</sup>	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH <sub>3</sub> )	IS: 5182 (Part-25)	15.3	µg/m <sup>3</sup>	400

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

Checked by:

Note.

- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and Should not be used in any advertising media without our special permission in writing.
- 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:



**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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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/070924A0001

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924A0001
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	03.09.2024 to 04.09.2024	Party Ref. No	-
Time of Monitoring	1140 min.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.57136°
Instrument calibration status	Calibrated	Longitude	81.058973°
Surrounding activity	Human, Vehicle Activates	Ambient Temperature - Ta (°C)	32
Parameter Required	As, C <sub>6</sub> H <sub>6</sub> , 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 <sup>3</sup>	For Annual = 06
2.	Benzene (C <sub>6</sub> H <sub>6</sub> )	IS: 5182 (Part-11)	<1.0	µg/m <sup>3</sup>	For 24 Hrs. = 5
3.	Benzo (a) Pyrene (BaP)	IS: 5182 (Part-12)	<0.05	ng/m <sup>3</sup>	For Annual = 01
4.	Nickel (Ni)	IS: 5182 (Part-26)	<1.0	ng/m <sup>3</sup>	For Annual = 20
5.	Lead (Pb)	IS: 5182 (Part-22)	<0.05	µg/m <sup>3</sup>	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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Authorized Signatory:

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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)

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



## TEST REPORT

(Ambient Air)

Report No.: AETRL/070924A0002

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Air Sample
		Sample Number	AETRL/070924A0002
Sample Collected by (Name & Designation)	Sampling Staff	Format No.	7.5 F-02
Sampling Location	Village Sakarwat (SAN 10)	Party Ref. No.	-
Date of Monitoring	03.09.2024 to 04.09.2024	Receipt Date	07.09.2024
Time of Monitoring	1203 min.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	32
Surrounding activity	-	Meteorological Condition	Clear Sky
Parameter Required	PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>2</sub> , SO <sub>2</sub> , CO, O <sub>3</sub> , NH <sub>3</sub>	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/24, GECRC/EQP/27, GECRC/EQP/24(a)		

## RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter(PM <sub>10</sub> )	IS-5182 (Part-23)	72.5	µg/m <sup>3</sup>	100
2.	Particulate Matter(PM <sub>2.5</sub> )	GECRC/AIR/TP/05	34.8	µg/m <sup>3</sup>	60
3.	Nitrogen dioxide(NO <sub>2</sub> )	IS: 5182 (Part-6)	25.2	µg/m <sup>3</sup>	80
4.	Sulphur dioxide(SO <sub>2</sub> )	IS: 5182 (Part-2)	7.9	µg/m <sup>3</sup>	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m <sup>3</sup>	04
6.	Ozone (O <sub>3</sub> )	IS: 5182 (Part-9)	16.4	µg/m <sup>3</sup>	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH <sub>3</sub> )	IS: 5182 (Part-25)	18.9	µg/m <sup>3</sup>	400

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Sample Description		Tested Parameters		Tested Results	
Sample No.	Location	Parameter	Unit	Result	Remarks
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20

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## TEST REPORT (Ambient Air)

Report No.: AETRL/070924A0002

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924A0002
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-02
Date of Monitoring	03.09.2024 to 04.09.2024	Party Ref. No	-
Time of Monitoring	1203 min.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument calibration status	Calibrated	Longitude	-
Surrounding activity	-	Ambient Temperature - Ta (°C)	32
Parameter Required	As, C <sub>6</sub> H <sub>6</sub> , 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 <sup>3</sup>	For Annual = 06
2.	Benzene (C <sub>6</sub> H <sub>6</sub> )	IS: 5182 (Part-11)	<1.0	µg/m <sup>3</sup>	For 24 Hrs. = 5
3.	Benzo (a) Pyrene (BaP)	IS: 5182 (Part-12)	<0.05	ng/m <sup>3</sup>	For Annual = 01
4.	Nickel (Ni)	IS: 5182 (Part-26)	<1.0	ng/m <sup>3</sup>	For Annual = 20
5.	Lead (Pb)	IS: 5182 (Part-22)	<0.05	µg/m <sup>3</sup>	For 24 Hrs. = 5

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*[Signature]*

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*[Signature]*

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## TEST REPORT (Noise Quality)

Report No.: AETRL/070924N0001

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924N0001
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-04
Date of Monitoring	03.09.2024 to 04.09.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.57136°
Instrument Used	Noise Meter	Longitude	81.058974°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	32
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)	33.3	-	IS:9989-1981
2.	Lmax	dB(A)	68.7	-	IS:9989-1981
3.	Leq day	dB(A)	48.4	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	39.0	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	44.2	-	IS:9989-1981

Checked by:

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Subject to terms & Condition Overleaf



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## TEST REPORT (Noise Quality)

Report No.: AETRL/070924N0002

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924N0002
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-04
Date of Monitoring	03.09.2024 to 04.09.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Noise Meter	Longitude	-
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	32
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)	27.0	-	IS:9989-1981
2.	Lmax	dB(A)	62.5	-	IS:9989-1981
3.	Leq day	dB(A)	49.5	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	37.1	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	42.6	-	IS:9989-1981

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## TEST REPORT

### Work Place Monitoring(Dust)

Report No.: AETRL/070924G0010

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924G0010
Sampling Location	Village Bairiha (Transportation Point)	Format No.	7.5 F-04
Date of Monitoring	04.09.2024	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)	32
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)	8.3	µg/m <sup>3</sup>	10
2.	Silica	GECRC/AIR/TP/07	0.32	µg/m <sup>3</sup>	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.63	µg/m <sup>3</sup>	-

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Authorized Signatory:



## TEST REPORT

Report No. AETRL/2024/001

Date: 20/01/2024

Client: ABC Company

Sample Name: Water Sample

Sample No: 12345

Location: Gwalior, Madhya Pradesh

Tested On: 15/01/2024

Tested By: Mr. X

Tested At: Gwalior, Madhya Pradesh

Tested For: Water Quality

Tested By: Mr. X

Tested At: Gwalior, Madhya Pradesh

Tested For: Water Quality

Tested By: Mr. X

Tested At: Gwalior, Madhya Pradesh

Tested For: Water Quality

Tested By: Mr. X

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Tested By: Mr. X

Tested At: Gwalior, Madhya Pradesh

Tested For: Water Quality

Tested By: Mr. X

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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 (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

### Work Place Monitoring(Dust)

Report No.: AETRL/070924G0009

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924G0009
Sampling Location	Bairiha mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	04.09.2024	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)	32
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)	7.4	µg/m <sup>3</sup>	10
2.	Silica	GECRC/AIR/TP/07	0.34	µg/m <sup>3</sup>	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.92	µg/m <sup>3</sup>	-

Checked by:

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## TEST REPORT (Noise Quality)

Report No.: AETRL/070924N0011

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Sampling Staff	Sample Number	AETRL/070924N0011
Sampling Location	Janardanpur mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	03.09.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453086°
Instrument Used	Noise Meter	Longitude	81.202934°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	32
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 <sub>min</sub>	dB(A)	38.2	-	IS:9989-1981
2.	L <sub>max</sub>	dB(A)	70.8	85 dB(A)	IS:9989-1981

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## TEST REPORT

Sl. No.	Sample Description	Parameter	Result	Remarks
1	Water Sample	pH	7.2	
2	Water Sample	Temperature	25°C	
3	Water Sample	Dissolved Oxygen	8.5 mg/L	
4	Water Sample	Hardness	150 mg/L	
5	Water Sample	Chloride	100 mg/L	
6	Water Sample	Sulfate	120 mg/L	
7	Water Sample	Total Solids	200 mg/L	
8	Water Sample	Calcium	80 mg/L	
9	Water Sample	Magnesium	70 mg/L	
10	Water Sample	Ammonia Nitrogen	0.5 mg/L	
11	Water Sample	Nitrite Nitrogen	0.1 mg/L	
12	Water Sample	Nitrate Nitrogen	1.0 mg/L	
13	Water Sample	Phosphate	0.2 mg/L	
14	Water Sample	Fluoride	0.5 mg/L	
15	Water Sample	Copper	0.1 mg/L	
16	Water Sample	Zinc	0.2 mg/L	
17	Water Sample	Lead	0.05 mg/L	
18	Water Sample	Cadmium	0.01 mg/L	
19	Water Sample	Mercury	0.001 mg/L	
20	Water Sample	Chromium	0.05 mg/L	

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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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IC-12780

## TEST REPORT (Fugitive Emission)

Report No.: AETRL/070924G00006

Date: 10.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Fugitive Emission
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/070924G00006
Sampling Location	Bairiha mine site (Loading Point)	Format No.	7.5 F-02
Date of Monitoring	03.09.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	07.09.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument calibration status	Calibrated	Longitude	-
Surrounding activity	Human, Vehicle Activates	Ambient Temperature - Ta (°C)	32
Parameter Required	SPM	Meteorological Condition	Clear Sky
Instrument Used	RDS	Control measure if any	No Any
		Protocol Used	IS:5182 & CPCB Guidelines

## RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	165.2	µg/m <sup>3</sup>	600.0

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

Checked by:



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3. Any discrepancy in test result should be reported within 15days.
4. The above Results are related to the tested Sample Only.





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## TEST REPORT (Fugitive Emission)

Report No.: : AETRL/070924G0002

Date: 14.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Fugitive Emission
		Sample Number	AETRL/070924G0002
Sample Collected by (Name & Designation)	Sampling Staff	Format No.	7.5 F-02
Sampling Location	Bairiha to Jamuna (Transportation Point)	Party Ref. No	-
Date of Monitoring	03.09.2024	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)	32
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)	123.6	µg/m <sup>3</sup>	600.0

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

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TC-12780

## TEST REPORT (Soil)

Report No AETRL/070924S0004

Reporting Date 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai – Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/070924S0004
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)	7.62
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.251
3	Organic matter	%	IS : 2720 (Part -22)	1.120
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	14.2
5	Potassium	mg/kg	IS : 9497 :2005	9.4



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Advanced Environmental Testing And Research Lab P. Ltd. is a leading laboratory for environmental testing and research. We provide a wide range of services including air quality testing, water quality testing, soil testing, and noise testing. Our laboratory is equipped with the latest technology and has a team of experienced professionals who ensure accurate and reliable results. We are committed to providing our clients with the highest quality of service and are ISO 9001:2015 certified.



## TEST REPORT

Report No. AETRL/2024/001

Report Date: 2024-01-01

Sl. No.	Sample Description	Tested Parameter	Tested Value	Unit	Remarks
1	Water Sample	pH	7.2		
2	Water Sample	Temperature	25.0	°C	
3	Water Sample	Dissolved Oxygen	8.5	mg/L	
4	Water Sample	Hardness	150	mg/L	
5	Water Sample	Chloride	100	mg/L	
6	Water Sample	Sulfate	120	mg/L	
7	Water Sample	Total Solids	200	mg/L	
8	Water Sample	Calcium	80	mg/L	
9	Water Sample	Magnesium	70	mg/L	
10	Water Sample	Iron	0.5	mg/L	
11	Water Sample	Copper	0.1	mg/L	
12	Water Sample	Zinc	0.2	mg/L	
13	Water Sample	Nitrate	10	mg/L	
14	Water Sample	Nitrite	0.5	mg/L	
15	Water Sample	Ammonia	0.1	mg/L	
16	Water Sample	Phosphate	0.5	mg/L	
17	Water Sample	Fluoride	0.5	mg/L	
18	Water Sample	Boron	0.5	mg/L	
19	Water Sample	Silica	0.5	mg/L	
20	Water Sample	Lead	0.1	mg/L	
21	Water Sample	Cadmium	0.01	mg/L	
22	Water Sample	Chromium	0.05	mg/L	
23	Water Sample	Mercury	0.001	mg/L	
24	Water Sample	Barium	0.5	mg/L	
25	Water Sample	Selenium	0.01	mg/L	
26	Water Sample	Cobalt	0.01	mg/L	
27	Water Sample	Nickel	0.01	mg/L	
28	Water Sample	Manganese	0.01	mg/L	
29	Water Sample	Vanadium	0.01	mg/L	
30	Water Sample	Chlorine	0.01	mg/L	
31	Water Sample	Bromine	0.01	mg/L	
32	Water Sample	Iodine	0.01	mg/L	
33	Water Sample	Strontium	0.01	mg/L	
34	Water Sample	Zirconium	0.01	mg/L	
35	Water Sample	Yttrium	0.01	mg/L	
36	Water Sample	Barium	0.01	mg/L	
37	Water Sample	Lithium	0.01	mg/L	
38	Water Sample	Sodium	0.01	mg/L	
39	Water Sample	Potassium	0.01	mg/L	
40	Water Sample	Calcium	0.01	mg/L	
41	Water Sample	Magnesium	0.01	mg/L	
42	Water Sample	Iron	0.01	mg/L	
43	Water Sample	Copper	0.01	mg/L	
44	Water Sample	Zinc	0.01	mg/L	
45	Water Sample	Nickel	0.01	mg/L	
46	Water Sample	Manganese	0.01	mg/L	
47	Water Sample	Vanadium	0.01	mg/L	
48	Water Sample	Chlorine	0.01	mg/L	
49	Water Sample	Bromine	0.01	mg/L	
50	Water Sample	Iodine	0.01	mg/L	

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Web: aetrl.com



## TEST REPORT (Soil)

Report No: AETRL/070924S0004

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai – Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/070924S0004
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	17.2
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	25.2
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= Below Detection Limit

Checked by:



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TC-12780

## TEST REPORT (Soil)

Report No : AETRKL/070924S0002

Reporting Date :16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine) Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRKL/070924S0002
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Bairiha	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)	7.72
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.298
3	Organic matter	%	IS : 2720 (Part -22)	1.12
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	17.8
5	Potassium	mg/kg	IS : 9497 :2005	10.2

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## TEST REPORT (Soil)

Report No: AETRL/070924S0002

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine) Rampur Baghelan, satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/070924S0002
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Bairiha	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	26.4
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

BDL= Below Detection Limit

Checked by:

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Authorized Signatory:



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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

Ph.: 0751 - 311 1424, 223 2177

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



TC-12780

## TEST REPORT (Surface Water)

Report No.: AETRL/090924W00016

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/090924W00016
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Canal	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)	7.78
2	Conductivity	µS/cm	IS : 3025 (Part-14)	615.0
3	Turbidity	NTU	IS : 3025 (Part-10)	3.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	380.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	400.0
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	255.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	324.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	174.0
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	150.0
10	Calcium	mg/l	IS : 3025 (Part-40)	69.6
11	Magnesium	mg/l	IS : 3025 (Part-46)	36.4
12	Chloride	mg/l	IS : 3025 (Part-32)	25.2
13	Sulphate	mg/l	IS : 3025 (Part-24)	66.8
14	Nitrate	mg/l	IS : 3025 (Part-34)	7.2
15	Iron	mg/l	IS : 3025 (Part-53)	0.07
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.7
17	COD	mg/l	IS : 3025 (Part-58)	36.0
18	BOD	mg/l	IS : 3025 (Part-44)	7.4
19	DO	mg/l	IS : 3025 (Part-38)	5.2
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	3.8
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	0.12

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



*[Signature]*

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*[Signature]*  
Authorized Signatory:





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GSTIN: 23AAECA9188L1Z8

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

Web: aetrl.com



## TEST REPORT (Surface Water)

Report No: AETRL/070924W00016

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai – Bairiha Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/070924W00016
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Canal	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)	5.0
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:



Authorized Signatory:

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## TEST REPORT (Water)

Report No: AETRL/070924W0005

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/070924W0005
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Bairiha (SGWS6)	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)	7.78	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	594.0	-	-
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)	345.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	476.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	324.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	152.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	129.7	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	36.9	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	26.4	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	104.2	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	16.8	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)	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

BDL = Below Detection Limit,

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

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Authorized Signatory:





Sl. No.	Sample Description	Parameter	Unit	Result	Remarks
1	Water Sample	pH		7.2	
2	Water Sample	Temperature	°C	25.0	
3	Water Sample	Dissolved Oxygen	mg/L	8.5	
4	Water Sample	Hardness	mg/L	150	
5	Water Sample	Calcium	mg/L	75	
6	Water Sample	Magnesium	mg/L	75	
7	Water Sample	Chloride	mg/L	100	
8	Water Sample	Sulfate	mg/L	100	
9	Water Sample	Nitrate	mg/L	10	
10	Water Sample	Nitrite	mg/L	0.5	
11	Water Sample	Ammonia	mg/L	0.2	
12	Water Sample	Phosphate	mg/L	0.1	
13	Water Sample	Fluoride	mg/L	0.5	
14	Water Sample	Copper	mg/L	0.1	
15	Water Sample	Zinc	mg/L	0.1	
16	Water Sample	Lead	mg/L	0.1	
17	Water Sample	Cadmium	mg/L	0.01	
18	Water Sample	Mercury	mg/L	0.001	
19	Water Sample	Chromium	mg/L	0.1	
20	Water Sample	Manganese	mg/L	0.1	
21	Water Sample	Selenium	mg/L	0.1	
22	Water Sample	Vanadium	mg/L	0.1	
23	Water Sample	Cobalt	mg/L	0.1	
24	Water Sample	Nickel	mg/L	0.1	
25	Water Sample	Molybdenum	mg/L	0.1	
26	Water Sample	Barium	mg/L	0.1	
27	Water Sample	Silver	mg/L	0.1	
28	Water Sample	Sodium	mg/L	100	
29	Water Sample	Potassium	mg/L	100	
30	Water Sample	Iron	mg/L	100	
31	Water Sample	Aluminum	mg/L	100	
32	Water Sample	Calcium	mg/L	75	
33	Water Sample	Magnesium	mg/L	75	
34	Water Sample	Chloride	mg/L	100	
35	Water Sample	Sulfate	mg/L	100	
36	Water Sample	Nitrate	mg/L	10	
37	Water Sample	Nitrite	mg/L	0.5	
38	Water Sample	Ammonia	mg/L	0.2	
39	Water Sample	Phosphate	mg/L	0.1	
40	Water Sample	Fluoride	mg/L	0.5	
41	Water Sample	Copper	mg/L	0.1	
42	Water Sample	Zinc	mg/L	0.1	
43	Water Sample	Lead	mg/L	0.1	
44	Water Sample	Cadmium	mg/L	0.01	
45	Water Sample	Mercury	mg/L	0.001	
46	Water Sample	Chromium	mg/L	0.1	
47	Water Sample	Manganese	mg/L	0.1	
48	Water Sample	Selenium	mg/L	0.1	
49	Water Sample	Vanadium	mg/L	0.1	
50	Water Sample	Cobalt	mg/L	0.1	
51	Water Sample	Nickel	mg/L	0.1	
52	Water Sample	Molybdenum	mg/L	0.1	
53	Water Sample	Barium	mg/L	0.1	
54	Water Sample	Silver	mg/L	0.1	
55	Water Sample	Sodium	mg/L	100	
56	Water Sample	Potassium	mg/L	100	
57	Water Sample	Iron	mg/L	100	
58	Water Sample	Aluminum	mg/L	100	
59	Water Sample	Calcium	mg/L	75	
60	Water Sample	Magnesium	mg/L	75	
61	Water Sample	Chloride	mg/L	100	
62	Water Sample	Sulfate	mg/L	100	
63	Water Sample	Nitrate	mg/L	10	
64	Water Sample	Nitrite	mg/L	0.5	
65	Water Sample	Ammonia	mg/L	0.2	
66	Water Sample	Phosphate	mg/L	0.1	
67	Water Sample	Fluoride	mg/L	0.5	
68	Water Sample	Copper	mg/L	0.1	
69	Water Sample	Zinc	mg/L	0.1	
70	Water Sample	Lead	mg/L	0.1	
71	Water Sample	Cadmium	mg/L	0.01	
72	Water Sample	Mercury	mg/L	0.001	
73	Water Sample	Chromium	mg/L	0.1	
74	Water Sample	Manganese	mg/L	0.1	
75	Water Sample	Selenium	mg/L	0.1	
76	Water Sample	Vanadium	mg/L	0.1	
77	Water Sample	Cobalt	mg/L	0.1	
78	Water Sample	Nickel	mg/L	0.1	
79	Water Sample	Molybdenum	mg/L	0.1	
80	Water Sample	Barium	mg/L	0.1	
81	Water Sample	Silver	mg/L	0.1	
82	Water Sample	Sodium	mg/L	100	
83	Water Sample	Potassium	mg/L	100	
84	Water Sample	Iron	mg/L	100	
85	Water Sample	Aluminum	mg/L	100	
86	Water Sample	Calcium	mg/L	75	
87	Water Sample	Magnesium	mg/L	75	
88	Water Sample	Chloride	mg/L	100	
89	Water Sample	Sulfate	mg/L	100	
90	Water Sample	Nitrate	mg/L	10	
91	Water Sample	Nitrite	mg/L	0.5	
92	Water Sample	Ammonia	mg/L	0.2	
93	Water Sample	Phosphate	mg/L	0.1	
94	Water Sample	Fluoride	mg/L	0.5	
95	Water Sample	Copper	mg/L	0.1	
96	Water Sample	Zinc	mg/L	0.1	
97	Water Sample	Lead	mg/L	0.1	
98	Water Sample	Cadmium	mg/L	0.01	
99	Water Sample	Mercury	mg/L	0.001	
100	Water Sample	Chromium	mg/L	0.1	

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

Web: aetrl.com



## TEST REPORT (Water)

Report No: AETRL/070924W0005

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/070924W0005
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Bairiha (SGWS6)	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:



Authorized Signatory:

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TC-12780

## TEST REPORT (Water)

Report No: AETRL/070924W0004

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/070924W0004
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Bairiha 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)	7.61	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	712.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	BDL<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	420.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	440.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	385.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	442.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	310.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	132.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	124.1	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	32.0	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	28.9	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	94.4	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	16.4	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)	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)	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:

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- The results relate to the item sampled and tested.



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

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## TEST REPORT (Water)

Report No: AETRL/070924W0004

Reporting Date: 16.09.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/070924W0004
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Bairiha 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,

Checked by:



Authorized Signatory:

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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

Ph.: 0751 - 311 1424, 223 2177

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TC-12780

## TEST REPORT (Ambient Air)

Report No.: AETRL/300524A0002

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Air Sample
		Sample Number	AETRL/300524A0002
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-02
Sampling Location	Village Sakarwat (SAN 10)	Party Ref. No.	-
Date of Monitoring	28.05.2024 to 29.05.2024	Receipt Date	30.05.2024
Time of Monitoring	1140 min.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	43
Surrounding activity	-	Meteorological Condition	Clear Sky
Parameter Required	PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>2</sub> , SO <sub>2</sub> , CO, O <sub>3</sub> , NH <sub>3</sub>	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 <sub>10</sub> )	IS-5182 (Part-23)	77.3	µg/m <sup>3</sup>	100
2.	Particulate Matter(PM <sub>2.5</sub> )	GECRC/AIR/TP/05	43.1	µg/m <sup>3</sup>	60
3.	Nitrogen dioxide(NO <sub>2</sub> )	IS: 5182 (Part-6)	16.8	µg/m <sup>3</sup>	80
4.	Sulphur dioxide(SO <sub>2</sub> )	IS: 5182 (Part-2)	7.4	µg/m <sup>3</sup>	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m <sup>3</sup>	04
6.	Ozone (O <sub>3</sub> )	IS: 5182 (Part-9)	13.7	µg/m <sup>3</sup>	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH <sub>3</sub> )	IS: 5182 (Part-25)	19.4	µg/m <sup>3</sup>	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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# Advanced Environmental Testing And Research Lab Pvt. Ltd.



Approved by Government Health & Safety Management (HSG-45007-2015)  
 Approved by Ministry of Environment, Forest and Climate Change (MOEF-CC)  
 Approved by Ministry of Environment, Forest and Climate Change (MOEF-CC)  
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 Approved by Ministry of Environment, Forest and Climate Change (MOEF-CC)



TEST REPORT  
 (Sample No. 20)

Sl. No.	Sample Description	Parameter	Unit	Result	Remarks
1	Water Sample	pH		7.2	
2	Water Sample	Temperature	°C	25	
3	Water Sample	Dissolved Oxygen	mg/L	8.5	
4	Water Sample	Hardness	mg/L	150	
5	Water Sample	Total Solids	mg/L	120	
6	Water Sample	Calcium	mg/L	80	
7	Water Sample	Magnesium	mg/L	40	
8	Water Sample	Chloride	mg/L	100	
9	Water Sample	Sulfate	mg/L	50	
10	Water Sample	Nitrate	mg/L	10	
11	Water Sample	Nitrite	mg/L	5	
12	Water Sample	Ammonia	mg/L	2	
13	Water Sample	Phosphate	mg/L	1	
14	Water Sample	Fluoride	mg/L	0.5	
15	Water Sample	Copper	mg/L	0.1	
16	Water Sample	Zinc	mg/L	0.2	
17	Water Sample	Lead	mg/L	0.05	
18	Water Sample	Cadmium	mg/L	0.01	
19	Water Sample	Mercury	mg/L	0.001	
20	Water Sample	Chromium	mg/L	0.05	

27/05/2024

Sl. No.	Parameter	Unit	Result	Remarks
1	pH		7.2	
2	Temperature	°C	25	
3	Dissolved Oxygen	mg/L	8.5	
4	Hardness	mg/L	150	
5	Total Solids	mg/L	120	
6	Calcium	mg/L	80	
7	Magnesium	mg/L	40	
8	Chloride	mg/L	100	
9	Sulfate	mg/L	50	
10	Nitrate	mg/L	10	
11	Nitrite	mg/L	5	
12	Ammonia	mg/L	2	
13	Phosphate	mg/L	1	
14	Fluoride	mg/L	0.5	
15	Copper	mg/L	0.1	
16	Zinc	mg/L	0.2	
17	Lead	mg/L	0.05	
18	Cadmium	mg/L	0.01	
19	Mercury	mg/L	0.001	
20	Chromium	mg/L	0.05	

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27/05/2024



# 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/300524A0002

Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524A0002
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-02
Date of Monitoring	28.05.2024 to 29.05.2024	Party Ref. No	-
Time of Monitoring	1140 min.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument calibration status	Calibrated	Longitude	-
Surrounding activity	-	Ambient Temperature - Ta (°C)	43
Parameter Required	As, C <sub>6</sub> H <sub>6</sub> , 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 <sup>3</sup>	For Annual = 06
2.	Benzene (C <sub>6</sub> H <sub>6</sub> )	IS: 5182 (Part-11)	<1.0	µg/m <sup>3</sup>	For 24 Hrs. = 5
3.	Benzo (a) Pyrene (BaP)	IS: 5182 (Part-12)	<0.05	ng/m <sup>3</sup>	For Annual = 01
4.	Nickel (Ni)	IS: 5182 (Part-26)	<1.0	ng/m <sup>3</sup>	For Annual = 20
5.	Lead (Pb)	IS: 5182 (Part-22)	<0.05	µg/m <sup>3</sup>	For 24 Hrs. = 5

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

Page 1 | 1

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

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TC-12780

## TEST REPORT (Ambient Air)

Report No.: AETRL/300524A0001

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Air Sample
		Sample Number	AETRL/300524A0001
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-02
Sampling Location	Bairiha mine site (SAN 1)	Party Ref. No.	-
Date of Monitoring	28.05.2024 to 29.05.2024	Receipt Date	30.05.2024
Time of Monitoring	1383 min.	Latitude	24.57136°
Scope of Monitoring	Environmental Monitoring	Longitude	81.058973°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	41
Surrounding activity	Human, Vehicle Activates	Meteorological Condition	Clear Sky
Parameter Required	PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>2</sub> , SO <sub>2</sub> , CO, O <sub>3</sub> , NH <sub>3</sub>	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 <sub>10</sub> )	IS-5182 (Part-23)	70.6	µg/m <sup>3</sup>	100
2.	Particulate Matter(PM <sub>2.5</sub> )	GECRC/AIR/TP/05	34.6	µg/m <sup>3</sup>	60
3.	Nitrogen dioxide(NO <sub>2</sub> )	IS: 5182 (Part-6)	21.2	µg/m <sup>3</sup>	80
4.	Sulphur dioxide(SO <sub>2</sub> )	IS: 5182 (Part-2)	8.9	µg/m <sup>3</sup>	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m <sup>3</sup>	04
6.	Ozone (O <sub>3</sub> )	IS: 5182 (Part-9)	17.0	µg/m <sup>3</sup>	180 (For 1 Hrs.)
					100 (For 8 Hrs.)
7.	Ammonia (NH <sub>3</sub> )	IS: 5182 (Part-25)	15.3	µg/m <sup>3</sup>	400

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

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Sl. No.		Sample Description		Tested Parameters		Result		Remarks	
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0751-3566867, 2232177

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

Web: aetrl.com



## TEST REPORT (Ambient Air)

Report No.: AETRL/300524A0001

Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (M.P.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524A0001
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	28.05.2024 to 29.05.2024	Party Ref. No	-
Time of Monitoring	1383 min.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.57136°
Instrument calibration status	Calibrated	Longitude	81.058973°
Surrounding activity	Human, Vehicle Activates	Ambient Temperature - Ta (°C)	41
Parameter Required	As, C <sub>6</sub> H <sub>6</sub> , 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 <sup>3</sup>	For Annual = 06
2.	Benzene (C <sub>6</sub> H <sub>6</sub> )	IS: 5182 (Part-11)	<1.0	µg/m <sup>3</sup>	For 24 Hrs. = 5
3.	Benzo (a) Pyrene (BaP)	IS: 5182 (Part-12)	<0.05	ng/m <sup>3</sup>	For Annual = 01
4.	Nickel (Ni)	IS: 5182 (Part-26)	<1.0	ng/m <sup>3</sup>	For Annual = 20
5.	Lead (Pb)	IS: 5182 (Part-22)	<0.05	µg/m <sup>3</sup>	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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# Advanced Environmental Testing And Research Lab P. Ltd.



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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)

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

Gwalior-474 011, M.P., India

☎0751-4099916 2232177

Email: [aetrl2016@gmail.com](mailto:aetrl2016@gmail.com), [aetlgwalior@gmail.com](mailto:aetlgwalior@gmail.com)



## TEST REPORT (Noise Quality)

Report No.: AETRL/300524N0001

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524N0001
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-04
Date of Monitoring	28.05.2024 to 29.05.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.57136°
Instrument Used	Noise Meter	Longitude	81.058974°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	41
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)	33.3	-	IS:9989-1981
2.	Lmax	dB(A)	67.1	-	IS:9989-1981
3.	Leq day	dB(A)	55.5	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	45.0	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	50.3	-	IS:9989-1981

Checked by:



Authorized Signatory

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

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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 &NABL
- 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 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: [aetrl2016@gmail.com](mailto:aetrl2016@gmail.com), [aetlgwalior@gmail.com](mailto:aetlgwalior@gmail.com)



## TEST REPORT (Noise Quality)

Report No.: AETRL/30052420002

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524N0002
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-04
Date of Monitoring	28.05.2024 to 29.05.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Noise Meter	Longitude	-
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	43
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 <sub>min</sub>	dB(A)	30.4	-	IS:9989-1981
2.	L <sub>max</sub>	dB(A)	55.0	-	IS:9989-1981
3.	Leq day	dB(A)	52.2	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	41.9	70 dB(A)	IS:9989-1981
5.	L <sub>dn</sub>	dB(A)	47.1	-	IS:9989-1981

Page 1 | 1

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Page 1 | 2





Sl. No.		Sample Description	Parameter	Result	Remarks
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TC-12780

## TEST REPORT (Water)

Report No AETRL/300524W0004

Reporting Date : 08.06.2024

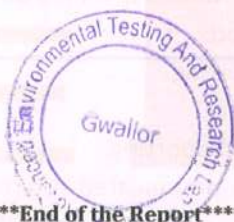
Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524W0004
Sample Collected by (Name & Designation)	Sampling Team	Format No.	7.5 F-01
Sampling Location	Bairiha 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)	7.59	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	712.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	BDL<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	440.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	460.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	380.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	454.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	180.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	274.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	72.0	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	66.5	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	27.1	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	96.4	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	19.4	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)	0.7	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)	3.4	-	-
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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Advanced Environmental Testing And Research Lab P. Ltd.  
 ISO 9001:2015 Certified  
 ISO 14001:2015 Certified  
 ISO 45001:2018 Certified  
 ISO 17025:2017 Certified  
 ISO 17020:2017 Certified  
 ISO 17021:2017 Certified  
 ISO 17022:2017 Certified  
 ISO 17023:2017 Certified  
 ISO 17024:2017 Certified  
 ISO 17025:2017 Certified  
 ISO 17020:2017 Certified  
 ISO 17021:2017 Certified  
 ISO 17022:2017 Certified  
 ISO 17023:2017 Certified  
 ISO 17024:2017 Certified



Sample Information		Test Information		Result Information	
Sample ID	Sample Description	Test Name	Test Method	Result	Unit
1	Water Sample	pH	14.1	7.2	
2	Water Sample	DO	14.1	8.5	
3	Water Sample	EC	14.1	120	µS/cm
4	Water Sample	TDS	14.1	150	mg/L
5	Water Sample	Hardness	14.1	180	mg/L
6	Water Sample	Calcium	14.1	90	mg/L
7	Water Sample	Magnesium	14.1	90	mg/L
8	Water Sample	Chloride	14.1	100	mg/L
9	Water Sample	Sulfate	14.1	100	mg/L
10	Water Sample	Nitrate	14.1	100	mg/L
11	Water Sample	Nitrite	14.1	100	mg/L
12	Water Sample	Ammonia	14.1	100	mg/L
13	Water Sample	Phosphate	14.1	100	mg/L
14	Water Sample	Biochemical Oxygen Demand (BOD)	14.1	100	mg/L
15	Water Sample	Chemical Oxygen Demand (COD)	14.1	100	mg/L
16	Water Sample	Total Organic Carbon (TOC)	14.1	100	mg/L
17	Water Sample	Total Dissolved Solids (TDS)	14.1	100	mg/L
18	Water Sample	Total Suspended Solids (TSS)	14.1	100	mg/L
19	Water Sample	Calcium Hardness	14.1	100	mg/L
20	Water Sample	Magnesium Hardness	14.1	100	mg/L
21	Water Sample	Chloride	14.1	100	mg/L
22	Water Sample	Sulfate	14.1	100	mg/L
23	Water Sample	Nitrate	14.1	100	mg/L
24	Water Sample	Nitrite	14.1	100	mg/L
25	Water Sample	Ammonia	14.1	100	mg/L
26	Water Sample	Phosphate	14.1	100	mg/L
27	Water Sample	Biochemical Oxygen Demand (BOD)	14.1	100	mg/L
28	Water Sample	Chemical Oxygen Demand (COD)	14.1	100	mg/L
29	Water Sample	Total Organic Carbon (TOC)	14.1	100	mg/L
30	Water Sample	Total Dissolved Solids (TDS)	14.1	100	mg/L
31	Water Sample	Total Suspended Solids (TSS)	14.1	100	mg/L
32	Water Sample	Calcium Hardness	14.1	100	mg/L
33	Water Sample	Magnesium Hardness	14.1	100	mg/L
34	Water Sample	Chloride	14.1	100	mg/L
35	Water Sample	Sulfate	14.1	100	mg/L
36	Water Sample	Nitrate	14.1	100	mg/L
37	Water Sample	Nitrite	14.1	100	mg/L
38	Water Sample	Ammonia	14.1	100	mg/L
39	Water Sample	Phosphate	14.1	100	mg/L
40	Water Sample	Biochemical Oxygen Demand (BOD)	14.1	100	mg/L
41	Water Sample	Chemical Oxygen Demand (COD)	14.1	100	mg/L
42	Water Sample	Total Organic Carbon (TOC)	14.1	100	mg/L
43	Water Sample	Total Dissolved Solids (TDS)	14.1	100	mg/L
44	Water Sample	Total Suspended Solids (TSS)	14.1	100	mg/L
45	Water Sample	Calcium Hardness	14.1	100	mg/L
46	Water Sample	Magnesium Hardness	14.1	100	mg/L
47	Water Sample	Chloride	14.1	100	mg/L
48	Water Sample	Sulfate	14.1	100	mg/L
49	Water Sample	Nitrate	14.1	100	mg/L
50	Water Sample	Nitrite	14.1	100	mg/L
51	Water Sample	Ammonia	14.1	100	mg/L
52	Water Sample	Phosphate	14.1	100	mg/L
53	Water Sample	Biochemical Oxygen Demand (BOD)	14.1	100	mg/L
54	Water Sample	Chemical Oxygen Demand (COD)	14.1	100	mg/L
55	Water Sample	Total Organic Carbon (TOC)	14.1	100	mg/L
56	Water Sample	Total Dissolved Solids (TDS)	14.1	100	mg/L
57	Water Sample	Total Suspended Solids (TSS)	14.1	100	mg/L
58	Water Sample	Calcium Hardness	14.1	100	mg/L
59	Water Sample	Magnesium Hardness	14.1	100	mg/L
60	Water Sample	Chloride	14.1	100	mg/L
61	Water Sample	Sulfate	14.1	100	mg/L
62	Water Sample	Nitrate	14.1	100	mg/L
63	Water Sample	Nitrite	14.1	100	mg/L
64	Water Sample	Ammonia	14.1	100	mg/L
65	Water Sample	Phosphate	14.1	100	mg/L
66	Water Sample	Biochemical Oxygen Demand (BOD)	14.1	100	mg/L
67	Water Sample	Chemical Oxygen Demand (COD)	14.1	100	mg/L
68	Water Sample	Total Organic Carbon (TOC)	14.1	100	mg/L
69	Water Sample	Total Dissolved Solids (TDS)	14.1	100	mg/L
70	Water Sample	Total Suspended Solids (TSS)	14.1	100	mg/L
71	Water Sample	Calcium Hardness	14.1	100	mg/L
72	Water Sample	Magnesium Hardness	14.1	100	mg/L
73	Water Sample	Chloride	14.1	100	mg/L
74	Water Sample	Sulfate	14.1	100	mg/L
75	Water Sample	Nitrate	14.1	100	mg/L
76	Water Sample	Nitrite	14.1	100	mg/L
77	Water Sample	Ammonia	14.1	100	mg/L
78	Water Sample	Phosphate	14.1	100	mg/L
79	Water Sample	Biochemical Oxygen Demand (BOD)	14.1	100	mg/L
80	Water Sample	Chemical Oxygen Demand (COD)	14.1	100	mg/L
81	Water Sample	Total Organic Carbon (TOC)	14.1	100	mg/L
82	Water Sample	Total Dissolved Solids (TDS)	14.1	100	mg/L
83	Water Sample	Total Suspended Solids (TSS)	14.1	100	mg/L
84	Water Sample	Calcium Hardness	14.1	100	mg/L
85	Water Sample	Magnesium Hardness	14.1	100	mg/L
86	Water Sample	Chloride	14.1	100	mg/L
87	Water Sample	Sulfate	14.1	100	mg/L
88	Water Sample	Nitrate	14.1	100	mg/L
89	Water Sample	Nitrite	14.1	100	mg/L
90	Water Sample	Ammonia	14.1	100	mg/L
91	Water Sample	Phosphate	14.1	100	mg/L
92	Water Sample	Biochemical Oxygen Demand (BOD)	14.1	100	mg/L
93	Water Sample	Chemical Oxygen Demand (COD)	14.1	100	mg/L
94	Water Sample	Total Organic Carbon (TOC)	14.1	100	mg/L
95	Water Sample	Total Dissolved Solids (TDS)	14.1	100	mg/L
96	Water Sample	Total Suspended Solids (TSS)	14.1	100	mg/L
97	Water Sample	Calcium Hardness	14.1	100	mg/L
98	Water Sample	Magnesium Hardness	14.1	100	mg/L
99	Water Sample	Chloride	14.1	100	mg/L
100	Water Sample	Sulfate	14.1	100	mg/L

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☎0751- 4099916 2232177

Email: [aetrl2016@gmail.com](mailto:aetrl2016@gmail.com), [aetlgwalior@gmail.com](mailto:aetlgwalior@gmail.com)



## TEST REPORT (Water)

Report No : AETRL/300524W0005

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai – Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524W0005
Sample Collected by (Name & Designation)	Sampling Team	Format No.	7.5 F-01
Sampling Location	Bairiha 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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Sl. No.		Sample Description		Tested Parameters		Result		Remarks	
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TC-12780

## TEST REPORT (Water)

Report No AETRL/300524W0005

Reporting Date : 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524W0005
Sample Collected by (Name & Designation)	Sampling Team	Format No.	7.5 F-01
Sampling Location	Village Bairiha (SGWS6)	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)	7.70	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)	340.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	482.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	190.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	292.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	76.0	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	70.9	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	25.6	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	102.0	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	18.4	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.26	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)	3.8	-	-
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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Sl. No.	Sample Description	Parameter	Unit	Result	Remarks
1	Water Sample	pH		7.2	
2	Water Sample	DO	mg/L	8.5	
3	Water Sample	EC	µS/cm	150	
4	Water Sample	TDS	mg/L	120	
5	Water Sample	Hardness	mg/L	100	
6	Water Sample	Calcium	mg/L	40	
7	Water Sample	Magnesium	mg/L	20	
8	Water Sample	Chloride	mg/L	10	
9	Water Sample	Sulfate	mg/L	10	
10	Water Sample	Nitrate	mg/L	10	
11	Water Sample	Nitrite	mg/L	10	
12	Water Sample	Ammonia	mg/L	10	
13	Water Sample	Phosphate	mg/L	10	
14	Water Sample	Fluoride	mg/L	10	
15	Water Sample	Copper	mg/L	10	
16	Water Sample	Zinc	mg/L	10	
17	Water Sample	Lead	mg/L	10	
18	Water Sample	Cadmium	mg/L	10	
19	Water Sample	Mercury	mg/L	10	
20	Water Sample	Chromium	mg/L	10	

Sl. No.	Sample Description	Parameter	Unit	Result	Remarks
21	Water Sample	Iron	mg/L	10	
22	Water Sample	Manganese	mg/L	10	
23	Water Sample	Selenium	mg/L	10	
24	Water Sample	Vanadium	mg/L	10	
25	Water Sample	Nickel	mg/L	10	
26	Water Sample	Cobalt	mg/L	10	
27	Water Sample	Molybdenum	mg/L	10	
28	Water Sample	Barium	mg/L	10	
29	Water Sample	Silver	mg/L	10	
30	Water Sample	Platinum	mg/L	10	
31	Water Sample	Palladium	mg/L	10	
32	Water Sample	Rhodium	mg/L	10	
33	Water Sample	Ruthenium	mg/L	10	
34	Water Sample	Chlorine	mg/L	10	
35	Water Sample	Bromine	mg/L	10	
36	Water Sample	Iodine	mg/L	10	
37	Water Sample	Fluorine	mg/L	10	
38	Water Sample	Oxygen	mg/L	10	
39	Water Sample	Nitrogen	mg/L	10	
40	Water Sample	Carbon	mg/L	10	

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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

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Email: [aetrl2016@gmail.com](mailto:aetrl2016@gmail.com), [aetgwalior@gmail.com](mailto:aetgwalior@gmail.com)



## TEST REPORT (Water)

Report No: AETRL/300524W0006

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai – Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524W0006
Sample Collected by (Name & Designation)	Sampling Team	Format No.	7.5 F-01
Sampling Location	Village Bairiha (SGWS6)	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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TC-12780

## TEST REPORT (Surface Water)

Report No: AETRL/300524W0010

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524W0010
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-01
Sampling Location	Canal	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)	7.67
2	Conductivity	μS/cm	IS : 3025 (Part-14)	648.0
3	Turbidity	NTU	IS : 3025 (Part-10)	3.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	400.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	420.0
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	260.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	336.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	130.0
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	206.0
10	Calcium	mg/l	IS : 3025 (Part-40)	52.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	50.0
12	Chloride	mg/l	IS : 3025 (Part-32)	24.1
13	Sulphate	mg/l	IS : 3025 (Part-24)	83.6
14	Nitrate	mg/l	IS : 3025 (Part-34)	9.0
15	Iron	mg/l	IS : 3025 (Part-53)	0.08
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.8
17	COD	mg/l	IS : 3025 (Part-58)	32.0
18	BOD	mg/l	IS : 3025 (Part-44)	8.8
19	DO	mg/l	IS : 3025 (Part-38)	6.2
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	4.0
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	0.10

Checked by:

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

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Subject to terms & Condition Overleaf

Page01/01





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GSTIN : 23AAECA9188L1Z8

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TC-12780

## TEST REPORT (Surface Water)

Report No : AETRL/300524W0010

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai – Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524W0010
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-01
Sampling Location	Canal	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)	5.2
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,

Checked by:



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

Authorized Signatory:

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## TEST REPORT (Soil)

Report No AETRL/300524S0004

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524S0004
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)	7.69
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.247
3	Organic matter	%	IS : 2720 (Part -22)	1.130
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	14.8
5	Potassium	mg/kg	IS : 9497 :2005	7.8

Checked by:



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

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Sl. No.		Description of Sample		Tested Parameters		Result	
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## TEST REPORT

(Soil)

Report No: AETRL/300524S0004

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524S0004
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, Cr <sup>6+</sup>	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	17.8
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	26.8
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= Below Detection Limit



Authorized Signatory:

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

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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 (Soil)

Report No: AETRL/300524S0002

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine) Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524S0002
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-01
Sampling Location	Village Bairiha	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)	7.61
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.367
3	Organic matter	%	IS : 2720 (Part -22)	1.165
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	17.5
5	Potassium	mg/kg	IS : 9497 :2005	9.2

Checked by:



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Authorized Signatory:

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The Laboratory is established with a view to provide a wide range of services to the industry and the public. It is equipped with the latest instruments and facilities for the analysis of various samples. The Laboratory is accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL) for the testing of various parameters. The Laboratory is also a member of the Indian Standards Institution (ISI) and the Bureau of Indian Standards (BIS).



## TEST REPORT

Sl. No.	Sample Description	Parameter Tested	Result	Remarks
1	Water Sample	pH	7.2	
2	Water Sample	Dissolved Oxygen	8.5 mg/l	
3	Water Sample	Hardness	120 mg/l	
4	Water Sample	Calcium	40 mg/l	
5	Water Sample	Magnesium	20 mg/l	
6	Water Sample	Total Solids	150 mg/l	
7	Water Sample	Chloride	10 mg/l	
8	Water Sample	Sulfate	5 mg/l	
9	Water Sample	Nitrate	10 mg/l	
10	Water Sample	Nitrite	5 mg/l	

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☎0751-4099916 2232177

Email: [aetrl2016@gmail.com](mailto:aetrl2016@gmail.com), [aetgwalior@gmail.com](mailto:aetgwalior@gmail.com)



## TEST REPORT (Soil)

Report No: AETRL/300524S0002

Reporting Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai – Bairiha Limestone Mine) Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	AETRL/300524S0002
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-01
Sampling Location	Village Bairiha	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, Cr <sup>6+</sup>	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	26.5
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	24.1
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= Below Detection Limit



Authorized Signatory:

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## TEST REPORT Work Place Monitoring (Dust)

Report No.: AETRL/300524G0010

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524G0010
Sampling Location	Village Bairiha (Transportation Point)	Format No.	7.5 F-04
Date of Monitoring	26.05.2024	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)	45
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)	5.1	µg/m <sup>3</sup>	10
2.	Silica	GECRC/AIR/TP/07	0.32	µg/m <sup>3</sup>	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.59	µg/m <sup>3</sup>	-

Checked by:



Authorized Signatory:

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## TEST REPORT Work Place Monitoring (Dust)

Report No.: AETRL/300524G0009

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524G0009
Sampling Location	Bairiha mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	26.05.2024	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)	43
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)	8.2	µg/m <sup>3</sup>	10
2.	Silica	GECRC/AIR/TP/07	0.49	µg/m <sup>3</sup>	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.63	µg/m <sup>3</sup>	-

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## TEST REPORT (Fugitive Emission)

Report No.: AETRL/300524G0002

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Fugitive Emission
		Sample Number	AETRL/300524G0002
Sample Collected by (Name & Designation)	Sampling team	Format No.	7.5 F-02
Sampling Location	Bairiha to Jamuna (Transportation Point)	Party Ref. No	-
Date of Monitoring	24.05.2024	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)	152.7	µg/m <sup>3</sup>	600.0

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

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## TEST REPORT (Noise Quality)

Report No.: AETRL/300524N0011

Date: 08/06/2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524N0011
Sampling Location	Janardanpur mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	23.05.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.453086°
Instrument Used	Noise Meter	Longitude	81.202934°
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 <sub>min</sub>	dB(A)	34.2	-	IS:9989-1981
2.	L <sub>max</sub>	dB(A)	65.7	85 dB(A)	IS:9989-1981



Checked by:

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## TEST REPORT (Fugitive Emission)

Report No.: AETRL/300524G0001

Date: 08.06.2024

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Janardanpur-Patarhai-Bairiha Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Description	Fugitive Emission
Sample Collected by (Name & Designation)	Sampling team	Sample Number	AETRL/300524G0001
Sampling Location	Bairiha mine site (Loading Point)	Format No.	7.5 F-02
Date of Monitoring	26.05.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	30.05.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument calibration status	Calibrated	Longitude	-
Surrounding activity	Human, Vehicle Activates	Ambient Temperature - Ta (°C)	43
Parameter Required	SPM	Meteorological Condition	Clear Sky
Instrument Used	RDS	Control measure if any	No Any
		Protocol Used	IS:5182 & CPCB Guidelines

## RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	108.3	µg/m <sup>3</sup>	600.0

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

Checked by:



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