

To,

Date: 15.05.2024

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: 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. - *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 **October-2023 to March- 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.

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Proposed Limestone Mine (ML Area: 575.830 ha.) with Limestone Production Capacity - 4.0 Million TPA, Top Soil / Sub Soil - 1.25 Million TPA, Waste (OB/IB/Shale) - 1.00 Million TPA & Screen Rejects - 0.40 Million TPA (Total Excavation - 6.65 Million TPA) along with Installation of Crusher - 1200 TPH Capacity with Wobbler at Villages: Bairiha, Patrahai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh.

Half Yearly Compliance Report of Specific Conditions of Environmental Clearance

October 2023 to March 2024

EC LETTER NO. J-11015/15/2019-IA. II (M); DATED 26/07/2021.

Specific EC conditions: -

Sr.	Conditions	Compliance
1.	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.	<p>Being Complied.</p> <p>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:</p> <ol style="list-style-type: none"> 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, sanitisers 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 & Skill Harnessing (DiKSHA) for youths of Janardanpur, Patarhai & Bairiha villages. Total Cost Rs 21.86 Lakh. 7. Sustainable Livelihood Development Program implementation through Dalmia Bharat Foundation (DBF) for upliftment of Women, Animal

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		Husbandry & Agriculture. Total Cost Rs 19.79 Lakh. (Details submitted with previous Compliance report)
2.	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% survival rate. Causalities of the previous year should be replaced other than the saplings proposed to be planted every year.	Noted. Mining activity such as Initial mine development work is under progress at site. Land 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. About 680 saplings have been planted in the Financial year 2023. (Attached with previous compliance report).
3.	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.	Noted. It is 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.
4.	The Project Proponent shall install conveyor belt from mines to cement plant and transportation is only through conveyor belt.	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.
5.	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.	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.
6.	The Project Proponent should undertake regular monitoring of ground water level and surface water	Noted.

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	quality and take preventive measures for protection of water bodies within the lease area as well as nearby the mines.	Ground Water level and surface water quality will be monitored regularly during operation of the mine. All preventive measures will be undertaken for protection of nearby water bodies.
7.	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.	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. 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. DCBL has applied for Validity Extension of NOC validity on 27.06.2023 (A copy of the same was already submitted with the previous compliance report) and the same is awaited. Hydrogeological Study report has already been submitted with previous Compliance report.
8.	The Project Proponent should develop community infrastructure including COVID health Centre at Village panchayats Janardanpur, Jamuna & 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.	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) However, further activities will be undertaken as per the Action Plan submitted grant of EC.
9.	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.	Noted.
10.	The Project Proponent should obtain permission for withdrawal of ground water.	Complied. CGWA NOC has been obtained for ground water abstraction and ground

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		water seepage vide NOC no CGWA/NOC/MIN/ORIG/2021/13700 dated 11/11/2021. Since there is no water abstraction during the validity period of No Objection Certificate, DCBL has applied for Validity Extension of NOC on 27.06.2023. Extension of validity of NOC is awaited. A copy of the same was already submitted with the previous compliance report) and the same is awaited.
11.	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.	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.
12.	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.	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.
13.	Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.	Noted.

Standard Conditions: -

Sr.	Conditions	Compliance
I.	Statutory Compliance	
14.	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.	Noted.
15.	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.	Noted.
16.	The State Government concerned shall ensure that mining operation shall not be commenced till the entire	-

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	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.	
17.	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IAJI (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	Noted.
18	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.	Complied. (Submitted with previous compliance report)
19.	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.	-
20.	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.environmentalclearance.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.	Complied. A public notice informing about grant of EC has been published in two newspapers named "Dainik Jagaran and Navbharat" on 4 th 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).
21.	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.	Noted.
II.	Air quality monitoring and preservation	
22.	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,	Noted. Currently only development work has been initiated at site & simultaneously land purchase is being done. With the start of mining operation at planned capacity, online Ambient Air Quality

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	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.	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.
23.	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled 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 equipments/ 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 MoEFCC/ Central Pollution Control Board.	Noted. 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 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-I .
III. Water quality monitoring and preservation		
24.	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.	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.
25.	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	Noted. During this compliance period, no major mining activities have been undertaken. Currently, the mining

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	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.	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.
26.	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	Noted. (A copy of the same was already submitted with the previous compliance report)
27.	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid 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,	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.

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	Forest and Climate Change may also be referred in this regard.	
28.	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 MoEFCC annually.	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. Since there is no water abstraction during the validity period of No Objection Certificate, DCBL has applied for Validity Extension of NOC on 27.06.2023. Extension of NOC validity is awaited. (A copy of the same was already submitted with the previous compliance report) and the same is awaited. Rain water harvesting plan submitted to CGWA will be implemented. Copy of the same is already submitted with previous Compliance report..
29	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.	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.
30.	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.	Noted.
IV. Noise and vibration monitoring and prevention		
31.	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Noted.
32.	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	Noted.

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	orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.	
33.	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.	Noted and Being Complied.
V.	Mining Plan	
34.	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.	Noted. Mining Operations will be carried out in accordance with the approved mining plan.
35.	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 MoEFCC and its concerned Regional Office.	Noted. Mining operation and reclamation-rehabilitation of mined out area will be carried out in accordance with the approved mining plan.
VI.	Land reclamation	
36.	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.	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 & platform for crusher and backfilling. However, physical parameters of the OB dumps will be maintained as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S. Top soil will be dumped temporarily at northeastern side of the ML area and

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		will be used for land reclamation and plantation. There will not be any dumps at conceptual stage.
37.	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.	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 & when developed such as slope, height and terrace of dumps, construction of garland drains & retaining walls etc. will be undertaken as per approved mining plan and guidelines of DGMS.
38.	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.	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 & sediments.
39.	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.	Noted.
VII. Transportation		
40.	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	Noted. Limestone from the mine shall be transported to the interlinked cement project by covered conveyor belt.

Proposed Limestone Mine (ML Area: 575.830 ha.) with Limestone Production Capacity - 4.0 Million TPA, Top Soil / Sub Soil - 1.25 Million TPA, Waste (OB/IB/Shale) - 1.00 Million TPA & Screen Rejects - 0.40 Million TPA (Total Excavation - 6.65 Million TPA) along with Installation of Crusher - 1200 TPH Capacity with Wobbler at Villages: Bairiha, Patrahai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh.

Sr.	Conditions	Compliance
	<p>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>	
41.	<p>The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.</p>	<p>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.</p>
VIII.	Green Belt	
42.	<p>The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.</p>	<p>Noted. The mining activities is currently limited to initial mine development and land purchase as Mining operation could not be commenced due to onset of monsoon. 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.</p>
43.	<p>The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in</p>	<p>Noted. No major mining activities have been undertaken after grant of EC & CTO</p>

Proposed Limestone Mine (ML Area: 575.830 ha.) with Limestone Production Capacity - 4.0 Million TPA, Top Soil / Sub Soil - 1.25 Million TPA, Waste (OB/IB/Shale) - 1.00 Million TPA & Screen Rejects - 0.40 Million TPA (Total Excavation - 6.65 Million TPA) along with Installation of Crusher - 1200 TPH Capacity with Wobbler at Villages: Bairiha, Patrahai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh.

Sr.	Conditions	Compliance
	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.	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 already attached to the previous Compliance report.
44.	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.	No grazing land falls within ML area.
IX.	Public hearing and human health issues	
45.	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic: infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	<p>Noted.</p> <p>The mining operation is limited to initial land development and land purchase during this compliance period.</p> <p>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.</p> <p>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</p>

Proposed Limestone Mine (ML Area: 575.830 ha.) with Limestone Production Capacity - 4.0 Million TPA, Top Soil / Sub Soil - 1.25 Million TPA, Waste (OB/IB/Shale) - 1.00 Million TPA & Screen Rejects - 0.40 Million TPA (Total Excavation - 6.65 Million TPA) along with Installation of Crusher - 1200 TPH Capacity with Wobbler at Villages: Bairiha, Patrahai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh.

Sr.	Conditions	Compliance
		water will be used for plantation purpose.
X.	Corporate Environment Responsibility (CER)	
46.	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.	Time bound action plan was prepared as per MoEF&CC 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 attached already 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.
XI.	Miscellaneous	
47.	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.	Noted.
48.	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.	Noted.
49.	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	Noted.
50.	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.	Noted.
51.	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.	Noted.
52.	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	Noted.

Proposed Limestone Mine (ML Area: 575.830 ha.) with Limestone Production Capacity - 4.0 Million TPA, Top Soil / Sub Soil - 1.25 Million TPA, Waste (OB/IB/Shale) - 1.00 Million TPA & Screen Rejects - 0.40 Million TPA (Total Excavation - 6.65 Million TPA) along with Installation of Crusher - 1200 TPH Capacity with Wobbler at Villages: Bairiha, Patrahai & Janardanpur, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh.

Sr.	Conditions	Compliance
	114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	
53.	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted.
54.	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.	Noted.



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TEST REPORT (Ambient Air)

Report No.: GECRC/A/23/12/26/001

Date: 26.12.2023

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	GECRC/A/23/12/21/01
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Bairiha mine site (SAN 1)	Party Ref. No.	-
Date of Monitoring	17.12.2023 to 18.12.2023	Receipt Date	21.12.2023
Time of Monitoring	1209 min.	Latitude	24.57136°
Scope of Monitoring	Environmental Monitoring	Longitude	81.058973°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	26
Surrounding activity	Human, Vehicle Activates	Meteorological Condition	Clear Sky
Parameter Required	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃ , NH ₃	Control measure if any	No Any
Instrument Used	RDS, FPS, Gaseous Sampler, CO Meter	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GECRC/EQP/22, GECRC/EQP/25, GECRC/EQP/26, GECRC/EQP/25(a)		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	75.6	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	GECRC/AIR/TP/05	40.8	µg/m ³	60
3.	Nitrogen dioxide (NO ₂)	IS: 5182 (Part-6)	23.5	µg/m ³	80
4.	Sulphur dioxide (SO ₂)	IS: 5182 (Part-2)	9.1	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	19.4	µg/m ³	180 (For 1 Hrs.)
					100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	16.7	µg/m ³	400

NAAQS- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3 (1)]

Checked by: 

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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

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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/23/12/26/001


Date: 26.12.2023

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/23/12/21/01
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	17.12.2023 to 18.12.2023	Party Ref. No	-
Time of Monitoring	1209 min.	Receipt Date	21.12.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.57136°
Instrument calibration status	Calibrated	Longitude	81.058973°
Surrounding activity	Human, Vehicle Activates	Ambient Temperature - Ta (°C)	26
Parameter Required	As, C ₆ H ₆ , BaP, Ni, Pb	Meteorological Condition	Clear Sky
Control measure if any	No Any	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

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

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

Checked by: 

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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GSTIN: 09AARFG5353K1ZS



TC-8336

TEST REPORT (Ambient Air)

Report No.: GECRC/A/23/12/26/002


Date: 26.12.2023

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/23/12/21/02
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-02
Date of Monitoring	17.12.2023 to 18.12.2023	Party Ref. No.	-
Time of Monitoring	1383 min.	Receipt Date	21.12.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument calibration status	Calibrated	Longitude	-
Surrounding activity	-	Ambient Temperature - Ta (°C)	27
Parameter Required	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃ , NH ₃	Meteorological Condition	Clear Sky
Instrument Used	RDS, FPS, Gaseous Sampler, CO Meter	Control measure if any	No Any
Instrument code	GECRC/EQP/22, GECRC/EQP/24, GECRC/EQP/27, GECRC/EQP/24(a)	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	79.6	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	GECRC/AIR/TP/05	46.2	µg/m ³	60
3.	Nitrogen dioxide (NO ₂)	IS: 5182 (Part-6)	20.0	µg/m ³	80
4.	Sulphur dioxide (SO ₂)	IS: 5182 (Part-2)	8.5	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	15.9	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	19.2	µg/m ³	400

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

Checked by: 

Authorized Signatory


Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/23/12/26/002

Date: 26.12.2023

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/A/23/12/21/02
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-02
Date of Monitoring	17.12.2023 to 18.12.2023	Party Ref. No	-
Time of Monitoring	1383 min.	Receipt Date	21.12.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument calibration status	Calibrated	Longitude	-
Surrounding activity	-	Ambient Temperature - Ta (°C)	27
Parameter Required	As, C ₆ H ₆ , BaP, Ni, Pb	Meteorological Condition	Clear Sky
Control measure if any	No Any	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

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

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

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/23/12/26/007

Date: 26.12.2023

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/12/21/07
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-04
Date of Monitoring	17.12.2023 to 18.12.2023	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	21.12.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.57136°
Instrument Used	Noise Meter	Longitude	81.058974°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	26
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules, 2000	Method
1.	L _{min}	dB(A)	30.0	-	IS:9989-1981
2.	L _{max}	dB(A)	68.7	-	IS:9989-1981
3.	Leq day	dB(A)	48.6	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	38.9	70 dB(A)	IS:9989-1981
5.	L _{dn}	dB(A)	44.2	-	IS:9989-1981

Checked by:

Authorized Signatory

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TC-8336

TEST REPORT (Noise Quality)

Report No.: GECRC/N/23/12/26/008

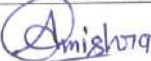
Date: 26.12.2023

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/12/21/08
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-04
Date of Monitoring	17.12.2023 to 18.12.2023	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	21.12.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Noise Meter	Longitude	-
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	27
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	26.2	-	IS:9989-1981
2.	L _{max}	dB(A)	58.0	-	IS:9989-1981
3.	Leq day	dB(A)	49.4	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	37.0	70 dB(A)	IS:9989-1981
5.	L _{dn}	dB(A)	42.3	-	IS:9989-1981

Checked by: 

Authorized Signatory


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TC-8336

TEST REPORT (Water)

Report No GECRC/W/23/12/27/004


Reporting Date: 27.12.2023

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	GECRC/W/23/12/21/016
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	17.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	PH, Turbidity, EC, TDS, TS, Total Alkalinity, Total Hardness, Calcium Hardness, Magnesium Hardness, Calcium, Magnesium, Chloride, Sulphate, Nitrate, Iron, Fluoride, COD, BOD, DO, Oil & Grease, Total Chromium	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	pH	-	IS : 3025 (Part-11)	7.69	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	672.0	-	-
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)	310.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	453.2	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	198.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	255.2	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	79.2	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	62.0	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	42.4	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)	24.2	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.28	0.3	No Relaxation
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.8	1.0	1.5
17	COD	mg/l	IS : 3025 (Part-58)	BDL<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	BDL<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	3.5	-	-
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: 

Authorized Signatory:


Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Water)

Report No :GECRC/N/W/23/12/27/004

Reporting Date: 27.12.2023

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	GECRC/W/23/12/21/016
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	17.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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:

Name: Raj Kumar

Designation: Technical Manager

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TC-8336

TEST REPORT (Water)

Report No: GECRC/W/23/12/27/005

Reporting Date: 27.12.2023

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	GECRC/W/23/12/21/017
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	17.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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)	7.82	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	782.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	BDL<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	460.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	480.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	350.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	455.2	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	210.6	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	244.6	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	84.2	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	59.4	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	40.9	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	100.4	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	21.4	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)	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,

Checked by:

Authorized Signatory:

Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Water)

Report No: GECRC/N/W/23/12/27/005

Reporting Date: 27.12.2023

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	GECRC/W/23/12/21/017
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	17.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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:



Name: Raj Kumar

Designation: Technical Manager

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GSTIN:09AARFG5353K1ZS



TC-8336

TEST REPORT (Surface Water)

Report No: GECRC/SW/23/12/27/010

Reporting Date: 27.12.2023

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	GECRC/SW/23/12/21/022
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	17.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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)	7.88
2	Conductivity	µS/cm	IS : 3025 (Part-14)	718.0
3	Turbidity	NTU	IS : 3025 (Part-10)	3.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	420.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	440.0
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	228.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	249.2
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	153.0
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	96.2
10	Calcium	mg/l	IS : 3025 (Part-40)	61.2
11	Magnesium	mg/l	IS : 3025 (Part-46)	23.3
12	Chloride	mg/l	IS : 3025 (Part-32)	25.4
13	Sulphate	mg/l	IS : 3025 (Part-24)	72.2
14	Nitrate	mg/l	IS : 3025 (Part-34)	8.6
15	Iron	mg/l	IS : 3025 (Part-53)	0.08
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.7
17	COD	mg/l	IS : 3025 (Part-58)	32.0
18	BOD	mg/l	IS : 3025 (Part-44)	8.7
19	DO	mg/l	IS : 3025 (Part-38)	7.3
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	4.8
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	0.08

Checked by:

Authorized Signatory:

Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Surface Water)

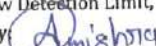
Report No :GECRC/N/SW/23/12/27/010

Reporting Date: 27.12.2023

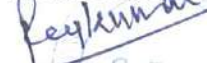
Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Janardanpur- Patarhai - Bairiha Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Dinesh Dixit	Sample Number	GECRC/SW/23/12/21/022
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Canal	Party Ref. No	NA
Sampling Date	17.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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	1200.0

BDL = Below Detection Limit,
Checked by: 

Authorized Signatory:



Name: Raj Kumar

Designation: Technical Manager

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GSTIN:09AARFG5353K1ZS



TC-8336

TEST REPORT (Soil)

Report No: GECRC/S/23/12/27/012

Reporting Date: 27.12.2023

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	GECRC/S/23/12/21/024
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	17.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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)	7.76
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.390
3	Organic matter	%	IS : 2720 (Part -22)	1.123
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	16.4
5	Potassium	mg/kg	IS : 9497 :2005	8.7

Checked by:

Amishora

Authorized Signatory:

Raj Kumar

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Soil)

Report No: GECRC/N/S/23/12/27/012

Reporting Date: 27.12.2023

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	GECRC/S/23/12/21/024
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	17.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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 ⁶⁺	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	29.96
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	23.0
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:

Authorized Signatory

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Soil)

Report No: GECRC/S/23/12/27/014

Reporting Date: 27.12.2023


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	GECRC/S/23/12/21/026
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	19.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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)	7.85
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.221
3	Organic matter	%	IS : 2720 (Part -22)	1.270
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	15.52
5	Potassium	mg/kg	IS : 9497 :2005	8.1

Checked by: 

Authorized Signatory:



Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Soil)

Report No: GECRC/N/S/23/12/27/014

Reporting Date: 27.12.2023

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	GECRC/S/23/12/21/026
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	19.12.2023	Receipt Date	21.12.2023
Sampling & Analysis Period	21.12.2023 to 26.12.2023	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 ⁶⁺	Protocol Used	IS:2720(Part-1) 1983

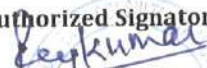
RESULTS

S. No.	Parameters	Unit	Test Method	Results
1	Particle Distribution	mm	IS : 2720 (Part 4)	2.0
2	Water Holding Capacity	%	IS : 14765 : 2000	18.81
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= BelowDetection Limit

Checked by: 

Authorized Signatory


Name: Raj Kumar

Designation: Technical Manager

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3. Any discrepancy in test result should be reported within 15 Days.
4. The results relate to the item sampled and tested.



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TEST REPORT Work Place Monitoring (Dust)

Report No.: GECRC/N/N/23/12/26/019

Date: 26.12.2023

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)	Mr. Akhand Pratap Singh	Sample Number	GECRC/N/N/23/12/21/019
Sampling Location	Bairiha mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	17.12.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	21.12.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/49	Ambient Temperature - Ta (°C)	26
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)	8.4	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.41	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.79	µg/m ³	-

Checked by:

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT Work Place Monitoring (Dust)

Report No.: GECRC/N/N/23/12/26/020

Date: 26.12.2023

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/N/23/12/21/020
Sampling Location	Village Bairiha (Transportation Point)	Format No.	7.5 F-04
Date of Monitoring	17.12.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	21.12.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/48	Ambient Temperature - Ta (°C)	26
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)	8.1	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.35	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.67	µg/m ³	-

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Designation: Technical Manager

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/N/23/12/26/016


Date: 26.12.2023

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)	Mr. Akhand Pratap Singh	Sample Number	GECRC/N/N/23/12/21/016
Sampling Location	Janardanpur mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	16.12.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	21.12.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.453086°
Instrument Used	Noise Meter	Longitude	81.202934°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	27
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	26.8	-	IS:9989-1981
2.	L _{max}	dB(A)	73.4	85 dB(A)	IS:9989-1981

Checked by: 

Authorized Signatory


Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Fugitive Emission)

Report No.: GECRC/N/A/23/12/26/008

Date: 26.12.2023

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	GECRC/N/A/23/12/21/008
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Bairiha to Jamuna (Transportation Point)	Party Ref. No	-
Date of Monitoring	16.12.2023	Receipt Date	21.12.2023
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	26
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)	155.0	µg/m ³	600.0

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

Checked by:

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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TC-8336

TEST REPORT (Ambient Air)

Report No.: GECRC/A/24/02/29/015

Date: 29.02.2024

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	GECRC/A/24/02/24/015
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Bairiha mine site (SAN 1)	Party Ref. No	-
Date of Monitoring	19.02.2024 to 20.02.2024	Receipt Date	24.02.2024
Time of Monitoring	1293 min.	Latitude	24.57128°
Scope of Monitoring	Environmental Monitoring	Longitude	81.058968°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	24
Surrounding activity	-	Meteorological Condition	Clear Sky
Parameter Required	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃ , NH ₃	Control measure if any	No Any
Instrument Used	RDS, FPS, Gaseous Sampler, CO Meter	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GECRC/EQP/22, GECRC/EQP/25, GECRC/EQP/26, GECRC/EQP/25(a)		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	82.8	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	GECRC/AIR/TP/05	47.9	µg/m ³	60
3.	Nitrogen dioxide (NO ₂)	IS: 5182 (Part-6)	18.5	µg/m ³	80
4.	Sulphur dioxide (SO ₂)	IS: 5182 (Part-2)	7.0	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	16.6	µg/m ³	180 (For 1 Hrs.)
					100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	13.4	µg/m ³	400

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

Checked by: 

Authorized Signatory



Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/24/02/29/015

Date: 29.02.2024

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/24/02/24/015
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	19.02.2024 to 20.02.2024	Party Ref. No	-
Time of Monitoring	1293 min.	Receipt Date	24.02.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.57128°
Instrument calibration status	Calibrated	Longitude	81.058968°
Surrounding activity	-	Ambient Temperature - Ta (°C)	24
Parameter Required	As, C ₆ H ₆ , BaP, Ni, Pb	Meteorological Condition	Clear Sky
Control measure if any	No Any	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

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

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

Checked by:

A Mishra

Authorized Signatory

Raj Kumar

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Ambient Air)

Report No.: GECRC/A/24/02/29/016

Date: 29.02.2024

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	GECRC/A/24/02/24/016
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Village Sakarwat (SAN 10)	Party Ref. No	-
Date of Monitoring	19.02.2024 to 20.02.2024	Receipt Date	24.02.2024
Time of Monitoring	1347 min.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	23
Surrounding activity	-	Meteorological Condition	Clear Sky
Parameter Required	PM ₁₀ , PM _{2.5} , NO ₂ , SO ₂ , CO, O ₃ , NH ₃	Control measure if any	No Any
Instrument Used	RDS, FPS, Gaseous Sampler, CO Meter	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GECRC/EQP/22, GECRC/EQP/24, GECRC/EQP/27, GECRC/EQP/24(a)		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter(PM ₁₀)	IS-5182 (Part-23)	77.2	µg/m ³	100
2.	Particulate Matter(PM _{2.5})	GECRC/AIR/TP/05	40.6	µg/m ³	60
3.	Nitrogen dioxide(NO ₂)	IS: 5182 (Part-6)	17.4	µg/m ³	80
4.	Sulphur dioxide(SO ₂)	IS: 5182 (Part-2)	8.9	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	18.2	µg/m ³	180 (For 1 Hrs.)
					100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	15.0	µg/m ³	400

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

Checked by:

Authorized Signatory

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/24/02/29/016

Date: 29.02.2024

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/24/02/24/016
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-02
Date of Monitoring	19.02.2024 to 20.02.2024	Party Ref. No	-
Time of Monitoring	1347 min.	Receipt Date	24.02.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument calibration status	Calibrated	Longitude	-
Surrounding activity	-	Ambient Temperature - Ta (°C)	23
Parameter Required	As, C ₆ H ₆ , BaP, Ni, Pb	Meteorological Condition	Clear Sky
Control measure if any	No Any	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

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

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

Checked by: 

Authorized Signatory



Name: Raj Kumar

Designation: Technical Manager

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TC-8336

TEST REPORT (Noise Quality)

Report No.: GECRC/N/24/02/29/023

Date: 29.02.2024

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)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/24/02/24/023
Sampling Location	Bairiha mine site (SAN 1)	Format No.	7.5 F-04
Date of Monitoring	19.02.2024 to 20.02.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	24.02.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.57128°
Instrument Used	Noise Meter	Longitude	81.058969°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	24
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

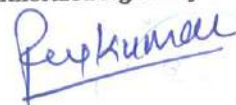
RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules, 2000	Method
1.	L _{min}	dB(A)	28.4	-	IS:9989-1981
2.	L _{max}	dB(A)	64.0	-	IS:9989-1981
3.	Leq day	dB(A)	52.4	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	38.2	70 dB(A)	IS:9989-1981
5.	L _{dn}	dB(A)	43.5	-	IS:9989-1981

Checked by: 

Authorized Signatory



Name: Raj Kumar
Designation: Technical Manager

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TC-8336

TEST REPORT (Noise Quality)

Report No.: GECRC/N/24/02/29/024


Date: 29.02.2024

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)	Mr. Akhand Pratap Singh (Field Assistant)	Sample Number	GECRC/N/24/02/24/024
Sampling Location	Village Sakarwat (SAN 10)	Format No.	7.5 F-04
Date of Monitoring	19.02.2024 to 20.02.2024	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	24.02.2024
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Noise Meter	Longitude	-
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	23
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

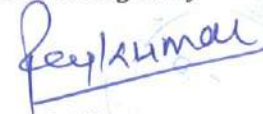
RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules, 2000	Method
1.	L _{min}	dB(A)	32.9	-	IS:9989-1981
2.	L _{max}	dB(A)	66.8	-	IS:9989-1981
3.	Leq day	dB(A)	55.1	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	40.6	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	46.0	-	IS:9989-1981

Checked by: 

Authorized Signatory



Name: Raj Kumar

Designation: Technical Manager

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

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

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/N/24/02/29/001

Date: 29.02.2024

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 Zone Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/N/24/02/24/001
Sampling Location	Bairiha Unloading Point	Format No.	7.5 F-04
Date of Monitoring	15.02.2024	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	24.02.2024
Scope of Monitoring	Environmental Monitoring	Latitude	24.571117°
Instrument Used	Noise Meter	Longitude	81.059236°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	22
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax	Protocol Used	IS: 9989-1981 & CPCB Guidelines


RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules,2000	Method
1.	L _{min}	dB(A)	32.3	-	IS:9989-1981
2.	L _{max}	dB(A)	62.1	85 dB(A)	IS:9989-1981

Checked by: 

Authorized Signatory



Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Fugitive Emission)

Report No.: GECRC/N/A/24/02/29/010

Date: 29.02.2024

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	GECRC/N/A/24/02/24/010
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Bairiha to Jamuna (Transportation Point)	Party Ref. No	-
Date of Monitoring	16.02.2024 to 17.02.2024	Receipt Date	24.02.2024
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	24
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)	129.2	µg/m ³	600.0

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

Checked by: 

Authorized Signatory



Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Fugitive Emission)

Report No.: GECRC/N/A/24/02/29/011

Date: 29.02.2024

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	GECRC/N/A/24/02/24/011
Sample Collected by (Name & Designation)	Mr. Akhand Pratap Singh	Format No.	7.5 F-02
Sampling Location	Bairiha (Unloading Point)	Party Ref. No	-
Date of Monitoring	16.02.2024 to 17.02.2024	Receipt Date	24.02.2024
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	24
Surrounding activity	Human, Vehicle Activates	Meteorological Condition	Clear Sky
Parameter Required	SPM	Control measure if any	No Any
Instrument Used	RDS	Protocol Used	IS:5182 & CPCB Guidelines
Instrument code	GECRC/EQP/24		

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	141.6	µg/m ³	600.0

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

Checked by: 

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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TC-8336

TEST REPORT (Water)

Report No GECRC/W/24/03/01/004

Reporting Date: 01.03.2024

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	GECRC/W/24/02/24/034
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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)	7.50	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	660.0	-	-
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)	430.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	466.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	226.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	240.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	90.4	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	58.3	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	26.0	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	100.0	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	22.2	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)	0.6	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)	3.9	-	-
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:

Authorized Signatory:

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Water)

Report No :GECRC/N/ W/24/03/01/004

Reporting Date: 01.03.2024

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	GECRC/W/24/02/24/034
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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: *Amisha*

Authorized Signatory:

Raj Kumar

Name: Raj Kumar

Designation: Technical Manager

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TC-8336

TEST REPORT (Water)

Report No: GECRC/W/24/03/01/005

Reporting Date: 01.03.2024

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	GECRC/W/24/02/24/035
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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)	696.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	BDL<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	400.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	420.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	335.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	488.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	244.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	244.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	97.6	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	59.3	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	22.0	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	106.0	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	20.6	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.24	0.3	No Relaxation
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.6	1.0	1.5
17	COD	mg/l	IS : 3025 (Part-58)	BDL<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	BDL<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	3.6	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	BDL<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	BDL<0.003	0.05	No Relaxation

BDL = Below Detection Limit,

Checked by:

Authorized Signatory:

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Water)

Report No: GECRC/N/ W/24/03/01/005

Reporting Date: 01.03.2024

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	GECRC/W/24/02/24/035
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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:

A. Mishra

Authorized Signatory:

Raj Kumar

Name: Raj Kumar

Designation: Technical Manager

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GSTIN: 09AARFG5353K1Z5



TC-8336

TEST REPORT (Surface Water)

Report No: GECRC/SW/24/03/01/010

Reporting Date: 01.03.2024

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	GECRC/SW/24/02/24/040
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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)	7.86
2	Conductivity	µS/cm	IS : 3025 (Part-14)	688.0
3	Turbidity	NTU	IS : 3025 (Part-10)	3.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	420.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	440.0
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	255.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	340.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	176.4
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	163.9
10	Calcium	mg/l	IS : 3025 (Part-40)	57.6
11	Magnesium	mg/l	IS : 3025 (Part-46)	41.5
12	Chloride	mg/l	IS : 3025 (Part-32)	21.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	80.8
14	Nitrate	mg/l	IS : 3025 (Part-34)	8.2
15	Iron	mg/l	IS : 3025 (Part-53)	0.06
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)	9.7
19	DO	mg/l	IS : 3025 (Part-38)	7.2
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	4.4
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	0.12

Checked by:

Amish

Authorized Signatory:

Raj Kumar

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Surface Water)

Report No :GECRC/N/SW/24/03/01/010

Reporting Date: 01.03.2024

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	GECRC/SW/24/02/24/040
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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)	5.6
2	Zinc	mg/l	IS : 3025 (Part-49)	BDL<5.0
3	Total Coliform	MPN/100ml	IS : 1622 :1981	1200.0

BDL = Below Detection Limit,

Checked by:

Authorized Signatory:

Name: Raj Kumar

Designation: Technical Manager

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

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



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GSTIN: 09AARFG5353K1ZS



TEST REPORT (Soil)

Report No: GECRC/S/24/03/01/014

Reporting Date: 01.03.2024

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	GECRC/S/24/02/24/044
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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)	7.65
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.221
3	Organic matter	%	IS : 2720 (Part -22)	1.125
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	16.4
5	Potassium	mg/kg	IS : 9497 :2005	6.1

Checked by: 

Authorized Signatory:



Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Soil)

Report No: GECRC/N/S/24/03/01/014

Reporting Date: 01.03.2024

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	GECRC/S/24/02/24/044
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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 ⁶⁺	Protocol Used	IS:2720(Part-1) 1983

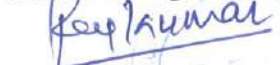
RESULTS

S. No.	Parameters	Unit	Test Method	Results
1	Particle Distribution	mm	IS : 2720 (Part 4)	2.0
2	Water Holding Capacity	%	IS : 14765 : 2000	20.60
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	28.6
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: 

Authorized Signatory



Name: Raj Kumar

Designation: Technical Manager

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

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GSTIN: 09AARFG5353K1ZS



TC-8336

TEST REPORT (Soil)

Report No: GECRC/S/24/03/01/012

Reporting Date: 01.03.2024

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	GECRC/S/24/02/24/042
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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)	7.56
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.280
3	Organic matter	%	IS : 2720 (Part -22)	1.224
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	17.33
5	Potassium	mg/kg	IS : 9497 :2005	8.8

Checked by: 

Authorized Signatory:



Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Soil)

Report No: GECRC/N/S/ 24/03/01/012

Reporting Date: 01.03.2024

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	GECRC/S/24/02/24/042
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	19.02.2024	Receipt Date	24.02.2024
Sampling & Analysis Period	24.02.2024 to 29.02.2024	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 ⁶⁺	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	30.20
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	22.4
4	Copper	mg/kg	IS : 440 :1964	BDL<0.1
5	Lead	mg/kg	IS : 440 :1964	BDL<0.1
6	Cadmium	mg/kg	GECRC/SOIL/TP/14	BDL<0.05
7	Hexavalent Chromium	mg/kg	GECRC/SOIL/TP/13	BDL<0.01

BDL= Below Detection Limit

Checked by: 

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