

Date: 25.05.2023

To,
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

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

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

Dear Sir,

With reference to above subject matter and referred letter, we are herewith submitting point wise Half-Yearly Compliance report of conditions laid down in Environment Clearance for the period **October 2022 to March, 2023** for your kind perusal and record.

Thanking You

Yours Faithfully,

For Dalmia Cement (Bharat) Ltd.



(Dinesh Dixit)

DGM, Mines



Encl: As Above 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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Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including mining area 185.57 ha, non-mining area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with total excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] Located near Villages – Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil – Amarpatan, District – Satna, Madhya Pradesh

Half Yearly Compliance Report of Specific Conditions of Environmental Clearance

October 2022 to March 2023

EC LETTER NO. J-11015/58/2017-IA. II (M); DATED 26/07/2021

Specific EC conditions: -

Sr.	Conditions	Compliance
1.	The Project Proponent shall carry out the mining only in 187.57 Ha [185.57 Ha permissible mineral extraction area and 2 Ha for setting up of crusher of 500 TPH] only. The area of 208.395 Ha shall be treated as no mining area. In the no mining area only green belt development, afforestation and other protective activities shall be carried out.	Noted. Mining activities will be carried out only in 187.57 Ha. The remaining 208.395 Ha will be treated as no mining area and only green belt development, afforestation, and other protective activities will be carried out in accordance with the IBM-approved Mining Plan.
2.	The Project Proponent shall install the AQ station at the mine site, villages, from 500m edge of mining lease boundary towards Mini Zoo & White Tiger Safari for monitoring of any impact due to mining for the parameters mentioned.	Noted. This is a Greenfield project and currently, the mining activity is limited to initial land development and land purchase. Installation of AQ stations as prescribed will be undertaken with the advancement of mining activities.
3.	The Project Proponent shall monitor the ground vibration at the site, near the boundary and sensitive receptor during blasting. Villages located in non-mining zone shall be protected from noise and vibration, air pollution by adopting measures as given in the EMP and as per the DGMS.	Noted. Currently, initial land development activities have been undertaken only. Blasting has not been undertaken yet. Vibration shall be monitored regularly and all necessary protection measures shall be undertaken as per EMP and the rules/guidelines of DGMS. However, no blasting is proposed in the 300 m safety barrier from habitation.
4.	The budget of Rs. 2.0 Crores to address the concerns raised by the public including in the public hearing to be completed within 3 years from the date of start of mining operations.	Being Complied. The mine is in the initial stage of land development and land purchase. It will be undertaken as per the Action Plan submitted during the appraisal of EC. The following activities as committed has already been undertaken: <ol style="list-style-type: none"> 1. Construction of the 230m long boundary wall was completed for Patarhai Primary School. 2 Nos steel gates were also fixed. 2. A water Tanker of 5000-liter capacity has been provided to

Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including mining area 185.57 ha, non-mining area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with total excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] Located near Villages – Pagara, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil – Amarpatan, District – Satna, Madhya Pradesh

Sr.	Conditions	Compliance
		<p>Gram Panchayat Jhiriya Koparihan</p> <p>3. Drilling of water borewell at village Jhiriya Kothar & Jhiriya Bajpaien</p> <p>4. Support was extended during the Covid-19 pandemic by distributing masks, and sanitisers in all villages. Ration support for 300 underprivileged families.</p> <p>5. Imparting training for skill development through Dalmia Institute of Knowledge & Skill Harnessing (DiKSHA) for youths of Pagara, Jhiriya Bajpein, Jhiriya Kothar & Jhiriya Koparihan villages. Total Cost Rs 9.90 Lakh.</p> <p>6. Sustainable Livelihood Development Program implementation through Dalmia Bharat Foundation (DBF) for the upliftment of Women, Animal Husbandry & Agriculture in Pagara, Jhiriya Bajpein, Jhiriya Kothar & Jhiriya Koparihan villages. Total Cost Rs 10.93 Lakh. (The details have been submitted earlier with the previous compliance report)</p> <p>7. Water Resource Management (Surface water storage(Reservoirs/Sunken Box), Ground water recharge actions (Ground water aquifers (Dug Shafts)) & Soil-water Conservation Actions (SPUR Gabion-10X2X3))- Total Cost Rs 3.54 Lakh.</p> <p>8. Sustainable Agriculture-Adoption of Improved agriculture practices of major crop - Seed treatment with bio-fertilizer, INM & IPM Practices, Promotion of system of Rice Intensification, Crop</p>

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Sr.	Conditions	Compliance
		<p>Diversification, Vegetable Cultivation- Total Cost Rs 3.27 Lakh.</p> <p>9. Integrated Livestock Development Program- Livelihood promotion through Dairy Cattle Rearing Establishment and operation of Livestock Development Centers, Development of Mahila Pashu Palak (Women Dairy Farmers), Infertility cum health camp & Support of Mineral Mixture- Total Cost Rs 4.16 Lakh.</p> <p>10. Women Led-Enterprise Promotion and Development Cultivation of High Value Crop- Total Cost Rs 0.69 Lakh.</p> <p>11. Mobilization and Support Cost Project Inception Workshop with Team and Stakeholders, Farmer Trainings, Exposure Visits, Honorarium to Volunteer- Total Cost Rs 0.95 Lakh.</p> <p>12. Administration, Human Resource, Infrastructure, and operational cost (F.Y. 2022-23) Rs 8.91 Lakh.</p>
5.	The Project Proponent shall return each block within 2 years after completion of each activity at each block with the proper reclamation for the purpose of agriculture.	<p>Noted.</p> <p>After reaching ultimate depth, part of the excavated pits will be backfilled and returned for agricultural purposes within 2 years. Part of excavated pits will be developed as a water reservoir for community use.</p>
6.	The Project Proponent shall undertake the plantation in peripheral zone and ensure that the plantation in peripheral zone and plantation along haul roads should be completed within 3 years from the date of commencement of mining operations with at least 90% survival rate. Casualties of the previous year should be replaced other than the saplings proposed to be planted every year. PP shall provide tree guard to maintain the early stages of plant growth. PP shall undertake	<p>Noted.</p> <p>The mining activity is currently limited to initial mine development within the permissible area and activity related to land purchase. However, the plantation has been started on the purchased land. Soon after, land development activities and land purchase, plantation will be taken up in the desired manner.</p>

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Sr.	Conditions	Compliance
	commercial plantation within 2 years at each block after it is backfilled.	100 plants have been planted within the ML area in this compliance period in addition to 640 Nos saplings planted during the previous compliance period. Photographs showing the plantation is attached as Annexure-I .
7.	The Project Proponent shall convert the proposed 1.7 km road into cement road which connects the NH-75 for mineral transportation.	Noted. Currently, DCBL is in the process of acquiring land to develop a dedicated road for mineral transportation.
8.	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.
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 shall ensure that the water bodies used for community development.	Noted. After reaching the ultimate depth, part of excavated pits will be developed as a water reservoir for community use.
11.	The Project Proponent shall submit detailed Hydro Geological study for blocks where the water table is intersecting and obtain permission from CGWA before undertaking mining operations.	Complied. A detailed Hydrogeological study has been undertaken by JM EnviroNet Pvt. Ltd. for Hydrogeological evaluation during the grant of EC. Groundwater intersection is not anticipated in the first 15 years of the mining as per the study carried out. Prior NOC will be taken from CGWA for the intersection of groundwater. CGWA NOC has been obtained for groundwater abstraction vide NOC no CGWA/NOC/MIN/ORIG/2021/13090 dated 25/09/2021 and it is valid up to 24/09/2023. (Submitted earlier with previous Compliance report). The hydrogeological Study report was submitted earlier with the previous Compliance Report. A copy of the Hydrogeological Study report has been submitted to RO, MOEFCC dated 01.12.2021 and the acknowledgment receipt of the same

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Sr.	Conditions	Compliance
		was also submitted earlier with the previous Compliance report.
12.	The Project Proponent should obtain permission for withdrawal of ground water before commencing mining operations.	Complied. CGWA NOC has been obtained for groundwater abstraction vide NOC no CGWA/NOC/MIN/ORIG/2021/13090 dated 25/09/2021 which is valid up to 24/09/2023. (Copies Submitted with previous Compliance report)
13.	The Project Proponent should strictly follow the protective measures as suggested by PCCF, MP in the NOC granted vide Lr. व.प्रा./मा°चि°/माइन-81/3928 dated 10.06.2021 regarding the Maharaja Martand Singh Judeo Dev White Tiger Safari and Zoo.	Noted.
14.	Regular surveillance on Silicosis shall be carried through regular occupational health checkup of 1/3 of the persons every year.	Noted.
15.	Project proponent shall examine the possibility of undertaking commercial plantation in consultation with local community within two years.	Noted.

Standard Conditions: -

Sr.	Conditions	Compliance
I.	Statutory Compliance	
1.	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
2.	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
3.	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ	--

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Sr.	Conditions	Compliance
	Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	
4.	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.
5.	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. (Acknowledgement Copies have been submitted with the previous Compliance report)
6.	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.	--
7.	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 the 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. Acknowledgment Copies have been submitted with the previous Compliance report. Newspapers with advertisements have been submitted to the Regional Office of MoEFCC. Acknowledgment Copies have been submitted with the previous Compliance report
8.	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	
9.	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-	Noted. Currently, the mining operation is limited to initial land development and land purchase. With the start of the mining operation at planned <i>capacity</i> , online Ambient Air Quality Monitoring Stations will be established as prescribed to monitor critical parameters relevant to mining

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Sr.	Conditions	Compliance
	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.	operations of air pollution as per the methodology mentioned in the NAAQS Notification dated 18.11.2009. The ambient air quality shall also be monitored at prominent places like an office building, canteen, etc. Monitored data will be displayed in front of the main Gate of the mine site. A copy of the AAQ monitoring report is Attached as Annexure-II.
10.	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. During the operation of the mine, various measures such as regular water sprinkling will be done on haul roads, at loading and unloading points, and at transfer points will be undertaken to control fugitive dust emissions. Bag filters and an automatic water spray system shall be installed at the crusher. Air pollution levels will be kept within the standard specified by MOEFCC/CPCB. As the mining activities are limited to initial land development and not carried out on a regular basis. Water tankers for water sprinkling are hired as and when required during development.
III.	Water quality monitoring and preservation	
11.	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.	Noted. Detailed Hydrogeological study has been undertaken by JM EnviroNet Pvt. Ltd. for Hydrogeological evaluation during the grant of EC. Groundwater intersection is not anticipated in the first 15 years of the mining as per the study carried out. Prior NOC will be taken from CGWA for the intersection of groundwater. However, CGWA NOC has been obtained for groundwater abstraction vide NOC dated 25/09/2021.
12.	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water	Noted. During this compliance period, no major mining activities have been undertaken, it is limited to mine development only. However, to monitor the water level and quality, a network of existing wells and the

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Sr.	Conditions	Compliance
	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.	installation of new piezo-meters will be established in consultation with the concerned department prior to groundwater abstraction.
13.	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.
14.	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, Forest and Climate Change may also be referred in this regard.	Noted. During this compliance period, no effluent has been generated because of limited activities. However, the effluent generated from the workshop, will be monitored regularly and monitored data will be uploaded/displayed as prescribed.
15.	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	Noted. A hydrogeological Study including Rain Water Harvesting Plan has been prepared and submitted to CGWA

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Sr.	Conditions	Compliance
	Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.	along with the Application for NOC. CGWA NOC has been obtained vide NOC dated 25/09/2021. Rainwater harvesting plan which was submitted to CGWA will be implemented. Acknowledgment Copies have been submitted with previous Compliance report
16.	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 wastewater is generated as mining activity is limited to initial development and land purchase. However, in the future, it will be ensured that the effluent generated from the workshop when established, will be treated properly to conform to the prescribed standards.
17.	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	
18.	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.
19.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.	Noted.
20.	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	

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21.	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 operation including total excavation, mining technology; scope of working, etc. will be carried out in accordance with the approved mining plan.
22.	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 the mined-out area will be carried out in accordance with the approved mining plan.
VI.	Land reclamation	
23.	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 the compliance period. As per the Approved Mining Plan, overburden will be stacked in a temporary dump and will be used for backfilling/construction of the mine road/crusher ramp. It will be stabilized by proper sloping, benching, grassing, etc. The physical parameters of the dumps will be maintained as per the approved Mining Plan and guidelines/circulars issued by D.G.M.S. Top soil will be used in the plantation and as topping on the backfilled area for plantation.
24.	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	Noted.

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	textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	
25.	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. No dump has been formed during this compliance period.
26.	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	
27.	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].	Noted. No transportation of minerals outside the lease area has been undertaken during this compliance period.
28.	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	Noted. Currently, the mining activities are intermittent and not carried out on a

Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including mining area 185.57 ha, non-mining area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with total excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] Located near Villages – Pagra, Jhiriya Kothar, Jhiriya Bajpaiaen & Jhiriya Koparihan, Tehsil – Amarpatan, District – Satna, Madhya Pradesh

Sr.	Conditions	Compliance
	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.	regular basis. Therefore, water tankers are hired as and when required during development. With the advancement of mining operation, all the measures shall be implemented as per the provisions of EMP given in the EIA/EMP report to control fugitive dust emissions such as permanent water sprinkling arrangement at the main haulage road, water sprinkling at loading & unloading points, Bag filters/dry Fog System and automatic water spray system at crusher etc.
VIII.	Green Belt	
29.	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.	Noted. The mining activities is currently limited to initial mine development within the permissible area. A Safety barrier (No mining zone) of 7.5m is demarcated all along the ML boundary. Soon after, land development activities and land purchase, the greenbelt will be developed as per the guidelines of CPCB. About 100 plants have been planted within purchased land in the mining lease during this compliance period.
30.	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	Noted. No major mining activities except land development work have been undertaken. Plantation has been started within the ML boundary. However, a Consultation with DFO, Satna has been made for the development of greenbelt/plantation. Acknowledgment Letter towards submission to the concerned DFO was submitted earlier with the previous Compliance report.
31.	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.	No grazing land falls within the ML area.

Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including mining area 185.57 ha, non-mining area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with total excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] Located near Villages – Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil – Amarpatan, District – Satna, Madhya Pradesh

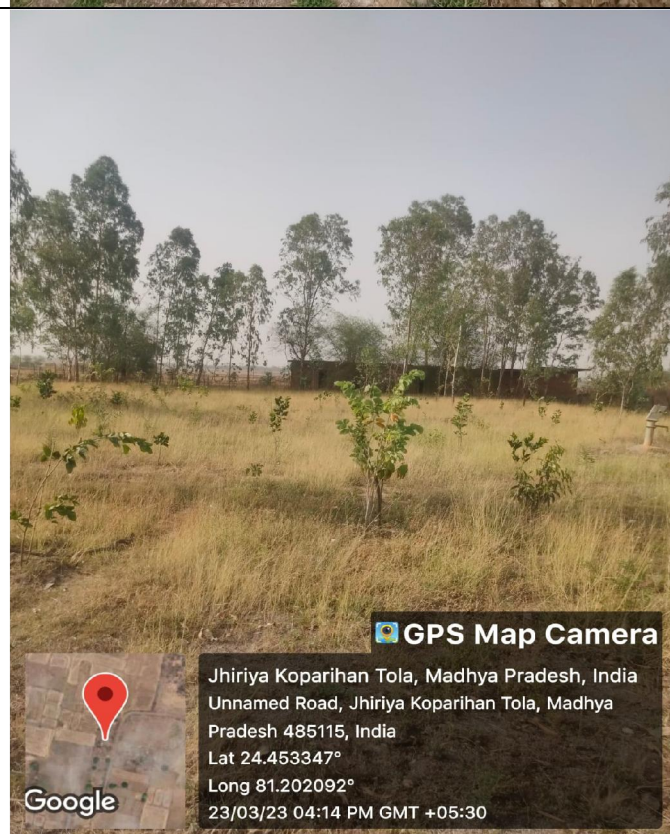
Sr.	Conditions	Compliance
	The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	
IX.	Public hearing and human health issues	
32.	Project Proponent shall 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>Currently, the mining operation is limited to initial land development and land purchase. Being a mining project, no major construction will be done except the mines office, crusher, rest shelter, etc. As local people will be engaged during the construction phase, provision for housing for workers will not be required. However, all necessary facilities will be provided. During the operation phase, local people will be employed. Proper infrastructure with shelter, drinking water, toilet, and first-aid facilities will be provided to the laborers. Currently, mining activity is being carried out intermittently with limited manpower and are restricted to initial land development and land purchase. At present, it is regulated by a remote office outside the ML area having all infrastructure facilities.</p> <p>Therefore, it is proposed to install portable Bio-toilets at the site to cater to the requirement. However, during later years when the mine will be operating at full capacity, domestic wastewater will be treated in STP, and treated water will be used for plantation purposes.</p>
X.	Corporate Environment Responsibility (CER)	
33.	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.	<p>Time-bound action plan prepared and submitted during the grant of EC and mentioned in para no. 17 of EC as per MoEF&CC Office Memorandum No.22-65/2017-IA III dated 30 September 2020.</p> <p>(Copy of Time bound action plan has been submitted with the previous Compliance report). The mine is in the initial stage of land development and land purchase. It will be undertaken as</p>

Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including mining area 185.57 ha, non-mining area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with total excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] Located near Villages – Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil – Amarpatan, District – Satna, Madhya Pradesh

Sr.	Conditions	Compliance
		per the Action Plan submitted. However, few activities have been undertaken which are detailed in Specific EC conditions No. 4.
XI.	Miscellaneous	
34.	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.
35.	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.
36.	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.
37.	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.
38.	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.
39.	In pursuant to Ministry's O.M No 22-34/2018-IA.111 dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Noted.
40.	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.
41.	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	Noted.

Pagara-Jhiriya Limestone Mine (ML Area: 395.965 ha including mining area 185.57 ha, non-mining area 208.395 ha and area for installation of 500 TPH Capacity of Crusher 2 ha) with total excavation of 2.41 Million TPA [Limestone: 1.5 MTPA, Soil: 0.56 MTPA and OB: 0.35 MTPA] Located near Villages – Pagra, Jhiriya Kothar, Jhiriya Bajpaien & Jhiriya Koparihan, Tehsil – Amarpatan, District – Satna, Madhya Pradesh

Sr.	Conditions	Compliance
	clearance and attract action under the provisions of Environment (Protection) Act, 1986.	

Photographs showing Plantation in Purchased Land

Plantation Details in Pagara-Jhiriya:

Dalmia Cement Bharat Limited		
Pagara-Jhiriya Limestone Mine		
Sr. No.	Name of Tree	No. of Sapplings
1	Kadam Tree	60
2	Karanj Tree	40
Total		100



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TC-8336

TEST REPORT (Ambient Air)

Report No.: GECRC/A/23/02/27/007

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
		Sample Number	GECRC/A/23/02/15/011
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Party Ref. No	-
Date of Monitoring	12.02.2023 to 13.02.2023	Receipt Date	15.02.2023
Time of Monitoring	1320 min.	Latitude	24.491818°
Scope of Monitoring	Environmental Monitoring	Longitude	81.188989°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	29
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)		

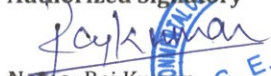
RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter (PM ₁₀)	IS-5182 (Part-23)	71.0	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	GECRC/AIR/TP/05	38.3	µg/m ³	60
3.	Nitrogen dioxide (NO ₂)	IS: 5182 (Part-6)	21.2	µg/m ³	80
4.	Sulphur dioxide (SO ₂)	IS: 5182 (Part-2)	8.7	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	18.1	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	17.0	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

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

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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/23/02/27/007

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/23/02/15/011
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-02
Date of Monitoring	12.02.2023 to 13.02.2023	Party Ref. No	-
Time of Monitoring	1320 min.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.491818°
Instrument calibration status	Calibrated	Longitude	81.188989°
Surrounding activity	-	Ambient Temperature - Ta (°C)	29
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) Pyrene (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/23/02/27/008

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
		Sample Number	GECRC/A/23/02/15/012
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Village Bela (SAN 6)	Party Ref. No	-
Date of Monitoring	12.02.2023 to 13.02.2023	Receipt Date	15.02.2023
Time of Monitoring	1382 min.	Latitude	24.451377°
Scope of Monitoring	Environmental Monitoring	Longitude	81.202165°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	28
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)	64.9	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	GECRC/AIR/TP/05	33.7	µg/m ³	60
3.	Nitrogen dioxide (NO ₂)	IS: 5182 (Part-6)	18.8	µg/m ³	80
4.	Sulphur dioxide (SO ₂)	IS: 5182 (Part-2)	8.4	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	17.3	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	16.0	µg/m ³	400

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

Checked by:

[Signature]

Authorized Signatory

[Signature]
Name: Raj Kumar
Designation: Technical Manager



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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/23/02/27/008

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/23/02/15/012
Sampling Location	Village Bela (SAN 6)	Format No.	7.5 F-02
Date of Monitoring	12.02.2023 to 13.02.2023	Party Ref. No	-
Time of Monitoring	1382 min.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.451377°
Instrument calibration status	Calibrated	Longitude	81.202165°
Surrounding activity	-	Ambient Temperature - Ta (°C)	28
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) Pyrene (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 (Ambient Air)

Report No.: GECRC/A/23/02/27/006

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
		Sample Number	GECRC/A/23/02/15/010
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Village Pagra (SAN 2)	Party Ref. No	-
Date of Monitoring	11.02.2023 to 12.02.2023	Receipt Date	15.02.2023
Time of Monitoring	1335 min.	Latitude	24.469093°
Scope of Monitoring	Environmental Monitoring	Longitude	81.154095°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	28
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)	65.7	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	GECRC/AIR/TP/05	32.8	µg/m ³	60
3.	Nitrogen dioxide (NO ₂)	IS: 5182 (Part-6)	21.6	µg/m ³	80
4.	Sulphur dioxide (SO ₂)	IS: 5182 (Part-2)	6.6	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	19.1	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	18.2	µg/m ³	400

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

Checked by: 

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager


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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/23/02/27/006

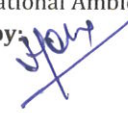
Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/23/02/15/010
Sampling Location	Village Pagra (SAN 2)	Format No.	7.5 F-02
Date of Monitoring	11.02.2023 to 12.02.2023	Party Ref. No	-
Time of Monitoring	1335 min.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.469093°
Instrument calibration status	Calibrated	Longitude	81.154095°
Surrounding activity	-	Ambient Temperature - Ta (°C)	28
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) Pyrene (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



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

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TC-8336

TEST REPORT (Ambient Air)

Report No.: GECRC/A/23/02/27/005

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
		Sample Number	GECRC/A/23/02/15/009
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	mine site (SAN 1)	Party Ref. No	-
Date of Monitoring	11.02.2023 to 12.02.2023	Receipt Date	15.02.2023
Time of Monitoring	1383 min.	Latitude	24.453095°
Scope of Monitoring	Environmental Monitoring	Longitude	81.202973°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	27
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)	63.3	µg/m ³	100
2.	Particulate Matter(PM _{2.5})	GECRC/AIR/TP/05	30.3	µg/m ³	60
3.	Nitrogen dioxide(NO ₂)	IS: 5182 (Part-6)	19.7	µg/m ³	80
4.	Sulphur dioxide(SO ₂)	IS: 5182 (Part-2)	5.9	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)	18.5	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	17.3	µg/m ³	400

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

Checked by:

[Signature]

Authorized Signatory

[Signature]
Name: Raj Kumar
Designation: Technical Manager



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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/23/02/27/005


Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/23/02/15/009
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	11.02.2023 to 12.02.2023	Party Ref. No	-
Time of Monitoring	1383 min.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.453095°
Instrument calibration status	Calibrated	Longitude	81.202973°
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) Pyrene (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 (1)]

Checked by: 

Authorized Signatory


Name: Raj Kumar

Designation: Technical Manager

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TC-8336

TEST REPORT (Noise Quality)

Report No.: GECRC/N/23/02/27/013

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/021
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-04
Date of Monitoring	11.02.2023 to 12.02.2023	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.453097°
Instrument Used	Noise Meter	Longitude	81.202974°
Instrument code	GECRC/EQP/02	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.	Lmin	dB(A)	29.1	-	IS:9989-1981
2.	Lmax	dB(A)	62.4	-	IS:9989-1981
3.	Leq day	dB(A)	51.8	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	37.6	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	42.9	-	IS:9989-1981

Checked by:

[Signature]

Authorized Signatory

[Signature]

Name: Raj Kumar
Designation: Technical Manager



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TEST REPORT (Noise Quality)

Report No.: GECRC/N/23/02/27/014

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/022
Sampling Location	Village Pagra (SAN 2)	Format No.	7.5 F-04
Date of Monitoring	11.02.2023 to 12.02.2023	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.469093°
Instrument Used	Noise Meter	Longitude	81.154098°
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	28
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules, 2000	Method
1.	Lmin	dB(A)	27.4	-	IS:9989-1981
2.	Lmax	dB(A)	59.9	-	IS:9989-1981
3.	Leq day	dB(A)	48.8	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	34.3	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	39.7	-	IS:9989-1981

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[Signature]

Authorized Signatory

[Signature]
Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/23/02/27/015

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/023
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-04
Date of Monitoring	12.02.2023 to 13.02.2023	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.491817°
Instrument Used	Noise Meter	Longitude	81.188987°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	29
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)	32.7	-	IS:9989-1981
2.	L _{max}	dB(A)	61.3	-	IS:9989-1981
3.	Leq day	dB(A)	52.7	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	40.8	70 dB(A)	IS:9989-1981
5.	L _{dn}	dB(A)	46.2	-	IS:9989-1981

Checked by:

[Signature]

Authorized Signatory

[Signature]
Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/23/02/27/016

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/024
Sampling Location	Village Bela (SAN 6)	Format No.	7.5 F-04
Date of Monitoring	12.02.2023 to 13.02.2023	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.451377°
Instrument Used	Noise Meter	Longitude	81.202166°
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	28
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules, 2000	Method
1.	Lmin	dB(A)	28.8	-	IS:9989-1981
2.	Lmax	dB(A)	59.6	-	IS:9989-1981
3.	Leq day	dB(A)	51.0	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	36.9	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	42.3	-	IS:9989-1981

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Authorized Signatory

[Signature]
Name: Raj Kumar
Designation: Technical Manager

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TC-8336

TEST REPORT (Soil)

Report No: GECRC/S/23/02/28/003

Reporting Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara - Jhriya Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/S/23/02/15/015
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	13.02.2023	Receipt Date	15.02.2023
Sampling & Analysis Period	15.02.2023 to 27.02.2023	Latitude	-
Type of Sampling	Grab	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)	7.88
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.430
3	Organic matter	%	IS : 2720 (Part -22)	1.26
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	18.0
5	Potassium	mg/kg	IS : 9497 :2005	8.2

Checked by:

[Signature]

Authorized Signatory:

[Signature]
Name: Raj Kumar
Designation: Technical Manager
G. E. C.
LUCKNOW

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TEST REPORT (Soil)

Report No: GECRC/N/ S/23/02/28/003

Reporting Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/S/23/02/15/015
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	13.02.2023	Receipt Date	15.02.2023
Sampling & Analysis Period	15.02.2023 to 27.02.2023	Latitude	-
Type of Sampling	Grab	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	70.0
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	23.8
4	Copper	mg/kg	IS : 440 :1964	<0.1
5	Lead	mg/kg	IS : 440 :1964	<0.1
6	Cadmium	mg/kg	GECRC/SOIL/TP/14	<0.05
7	Hexavalent Chromium	mg/kg	GECRC/SOIL/TP/13	<0.01

BDL= BelowDetection Limit

Checked by:

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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TC-8336

TEST REPORT (Water)

Report No: GECRC/W/23/02/28/013

Reporting Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhriya Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/W/23/02/15/033
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine site (SGWS1)	Party Ref. No	NA
Sampling Date	13.02.2023	Receipt Date	15.02.2023
Sampling & Analysis Period	15.02.2023 to 27.02.2023	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)	7.42	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	680.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	400.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	420.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	360.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	370.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	162.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	208.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	64.8	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	50.5	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	21.5	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	110.0	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	18.2	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.25	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)	<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	3.8	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	<0.003	0.05	No Relaxation

BDL = Below Detection Limit,

Checked by:

[Signature]

Authorized Signatory:

[Signature]
Name: Raj Kumar
Designation: Technical Manager



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TEST REPORT (Water)

Report No: GECRC/N/W/23/02/28/013

Reporting Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara Jhriya Limestone Mine), Rampur Baghelan, Satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/W/23/02/15/033
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine site (SGWS1)	Party Ref. No	NA
Sampling Date	13.02.2023	Receipt Date	15.02.2023
Sampling & Analysis Period	15.02.2023 to 27.02.2023	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)	<5.0	-	-
2	Zinc	mg/l	IS : 3025 (Part-49)	<5.0	5	15
3	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: 09AARFG5353K1Z5



TEST REPORT (Water)

Report No: GECRC/W/23/02/28/014


Reporting Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhriya Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/W/23/02/15/034
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Pagra (SGWS2)	Party Ref. No	NA
Sampling Date	13.02.2023	Receipt Date	15.02.2023
Sampling & Analysis Period	15.02.2023 to 27.02.2023	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)	7.53	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	711.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	<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)	350.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	508.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	280.8	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	227.2	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	112.3	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	55.2	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	22.5	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)	18.8	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.25	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)	<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	4.0	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	<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/23/02/28/014

Reporting Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara Jhriya Limestone Mine), Rampur Baghelan , Satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/W/23/02/15/034
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Pagra (SGWS2)	Party Ref. No	NA
Sampling Date	13.02.2023	Receipt Date	15.02.2023
Sampling & Analysis Period	15.02.2023 to 27.02.2023	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)	<5.0	-	-
2	Zinc	mg/l	IS : 3025 (Part-49)	<5.0	5	15
3	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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TEST REPORT (Surface Water)

Report No: GECRC/SW/23/02/28/007

Reporting Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/SW/23/02/15/025
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	13.02.2023	Receipt Date	15.02.2023
Sampling & Analysis Period	15.02.2023 to 27.02.2023	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)	7.98
2	Conductivity	µS/cm	IS : 3025 (Part-14)	670.0
3	Turbidity	NTU	IS : 3025 (Part-10)	4.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	400.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	420.0
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	245.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	340.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	169.2
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	103.1
10	Calcium	mg/l	IS : 3025 (Part-40)	67.7
11	Magnesium	mg/l	IS : 3025 (Part-46)	41.5
12	Chloride	mg/l	IS : 3025 (Part-32)	19.1
13	Sulphate	mg/l	IS : 3025 (Part-24)	78.4
14	Nitrate	mg/l	IS : 3025 (Part-34)	6.6
15	Iron	mg/l	IS : 3025 (Part-53)	0.06
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.8
17	COD	mg/l	IS : 3025 (Part-58)	32
18	BOD	mg/l	IS : 3025 (Part-44)	8.6
19	DO	mg/l	IS : 3025 (Part-38)	6.9
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	3.8
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	0.08

Checked by:

[Signature]

Authorized Signatory:

[Signature]
Name: Raj Kumar
Designation: Technical Manager



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TEST REPORT (Surface Water)

Report No: GECRC/N/SW/23/02/28/007

Reporting Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/SW/23/02/15/025
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	13.02.2023	Receipt Date	15.02.2023
Sampling & Analysis Period	15.02.2023 to 27.02.2023	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)	5.3
2	Zinc	mg/l	IS : 3025 (Part-49)	<5.0
3	Coliform	MPN/100ml	IS : 1622 :1981	1000.0

BDL = Below Detection Limit,

Checked by:

Authorized Signatory:

Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/N/23/02/27/013

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/021
Sampling Location	Pagra Working Pit	Format No.	7.5 F-04
Date of Monitoring	07.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.452853°
Instrument Used	Noise Meter	Longitude	81.203676°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	28
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.	Lmin	dB(A)	33.4	-	IS:9989-1981
2.	Lmax	dB(A)	62.5	85 dB(A)	IS:9989-1981

Checked by:

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/N/23/02/27/014

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Mr. Akhand Pratap Singh	Sample Number	GECRC/N/23/02/15/022
Sampling Location	Bela Transportation Point	Format No.	7.5 F-04
Date of Monitoring	07.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.556477°
Instrument Used	Noise Meter	Longitude	81.053719°
Instrument code	GECRC/EQP/03	Ambient Temperature - Ta (°C)	29
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)	31.3	-	IS:9989-1981
2.	L _{max}	dB(A)	73.8	85 dB(A)	IS:9989-1981

Checked by:

Authorized Signatory

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/N/23/02/27/015

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/023
Sampling Location	Pagra mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	08.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	24.453095°
Instrument Used	Noise Meter	Longitude	81.202956°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	28
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)	30.6	-	IS:9989-1981
2.	L _{max}	dB(A)	68.7	85 dB(A)	IS:9989-1981

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/23/02/28/029

Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/044
Sampling Location	Pagra East site (Working Pit)	Format No.	7.5 F-04
Date of Monitoring	11.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/48	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	SPM, Silica, Crystalline Silica	Protocol Used	-

RESULTS

S. No.	Parameters	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	5.6	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.27	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.81	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/23/02/28/032

Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Mr. Akhand Pratap Singh	Sample Number	GECRC/N/23/02/15/045
Sampling Location	Pagra mine site Exit point (loading Point)	Format No.	7.5 F-04
Date of Monitoring	08.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/49	Ambient Temperature - Ta (°C)	28
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)	4.2	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.26	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.78	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/23/02/28/033

Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/046
Sampling Location	Bela Near Highway (Satna to Rewa) (Transportation Point)	Format No.	7.5 F-04
Date of Monitoring	13.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/48	Ambient Temperature - Ta (°C)	29
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)	4.4	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.23	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.69	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/23/02/28/030

Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/048
Sampling Location	Pagra West site (Working Pit)	Format No.	7.5 F-04
Date of Monitoring	07.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/49	Ambient Temperature - Ta (°C)	28
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	SPM, Silica, Crystalline Silica	Protocol Used	-

RESULTS

S. No.	Parameters	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	5.0	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.25	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.75	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/23/02/28/031

Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/23/02/15/049
Sampling Location	Pagra mine site Entry point (loading Point)	Format No.	7.5 F-04
Date of Monitoring	08.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/48	Ambient Temperature - Ta (°C)	28
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)	4.8	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.24	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	0.72	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/23/02/28/034

Date: 28.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Place Monitoring
Sample Collected by (Name & Designation)	Mr. Akhand Pratap Singh	Sample Number	GECRC/N/23/02/15/050
Sampling Location	Bela Village (Transportation Point)	Format No.	7.5 F-04
Date of Monitoring	07.02.2023	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	15.02.2023
Scope of Monitoring	Environmental Monitoring	Latitude	-
Instrument Used	Handy Sampler	Longitude	-
Instrument code	GECRC/EQP/49	Ambient Temperature - Ta (°C)	29
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	08 Hrs.	Control measure if any	No any
Parameter Required	SPM, Silica, Crystalline Silica	Protocol Used	-

RESULTS

S. No.	Parameters	Method of Test	Result	Unit	Standards
1.	SPM	IS-5182 (Part-04)	8.2	µg/m ³	10
2.	Silica	GECRC/AIR/TP/07	0.42	µg/m ³	-
3.	Crystalline Silica	GECRC/AIR/TP/08	1.26	µg/m ³	-

Checked by:

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Fugitive Emission)

Report No.: GECRC/N/A/23/02/27/020

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Fugitive Emission
		Sample Number	GECRC/A/23/02/15/055
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Bela near Highway (Satna to Rewa) (Transportation Point)	Party Ref. No	-
Date of Monitoring	06.02.2023 to 07.02.2023	Receipt Date	15.02.2023
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	29
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)	131.1	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/23/02/27/021

Date: 27.02.2023

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Fugitive Emission
		Sample Number	GECRC/A/23/02/15/056
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	mine site (SAN 1)	Party Ref. No	-
Date of Monitoring	06.02.2023 to 07.02.2023	Receipt Date	15.02.2023
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	29
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)	99.8	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 (Ambient Air)

Report No.: GECRC/A/22/11/29/007

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/22/11/21/07
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-02
Date of Monitoring	13.11.2022 to 14.11.2022	Party Ref. No	-
Time of Monitoring	1340 min.	Receipt Date	21.11.2022
Scope of Monitoring	Environmental Monitoring	Latitude	24.491819°
Instrument calibration status	Calibrated	Longitude	81.188986°
Surrounding activity	-	Ambient Temperature - Ta (°C)	29
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/25, GECRC/EQP/26, GECRC/EQP/25(a)	Protocol Used	IS:5182 & CPCB Guidelines

RESULTS

S. No.	Parameter	Method of Test	Result	Unit	Standards
1.	Particulate Matter(PM ₁₀)	IS-5182 (Part-23)	74.8	µg/m ³	100
2.	Particulate Matter(PM _{2.5})	GECRC/AIR/TP/05	38.6	µg/m ³	60
3.	Nitrogen dioxide(NO ₂)	IS: 5182 (Part-6)	20.7	µg/m ³	80
4.	Sulphur dioxide(SO ₂)	IS: 5182 (Part-2)	6.7	µg/m ³	80
5.	Carbon Mono Oxide (CO)	GECRC/AIR/TP/07	BDL (<1.15)	Mg/m ³	04
6.	Ozone (O ₃)	IS: 5182 (Part-9)	17.8	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	17.0	µg/m ³	400

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

Checked by: *Ravish*

Authorized Signatory

Raj Kumar

Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/22/11/29/007

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/22/11/21/07
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-02
Date of Monitoring	13.11.2022 to 14.11.2022	Party Ref. No	-
Time of Monitoring	1340 min.	Receipt Date	21.11.2022
Scope of Monitoring	Environmental Monitoring	Latitude	24.491819°
Instrument calibration status	Calibrated	Longitude	81.188986°
Surrounding activity	-	Ambient Temperature - Ta (°C)	29
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) Pyrene (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: Aurabh

Authorized Signatory


Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Ambient Air)

Report No.: GECRC/A/22/11/29/005

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
		Sample Number	GECRC/A/22/11/21/05
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	mine site (SAN 1)	Party Ref. No	-
Date of Monitoring	12.11.2022 to 13.11.2022	Receipt Date	21.11.2022
Time of Monitoring	1288 min.	Latitude	24.453068°
Scope of Monitoring	Environmental Monitoring	Longitude	81.202961°
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	28
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)	65.7	µg/m ³	100
2.	Particulate Matter(PM _{2.5})	GECRC/AIR/TP/05	33.6	µg/m ³	60
3.	Nitrogen dioxide(NO ₂)	IS: 5182 (Part-6)	19.4	µg/m ³	80
4.	Sulphur dioxide(SO ₂)	IS: 5182 (Part-2)	6.2	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)	19.9	µg/m ³	180 (For 1 Hrs.) 100 (For 8 Hrs.)
7.	Ammonia (NH ₃)	IS: 5182 (Part-25)	18.9	µg/m ³	400

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

Checked by: Burabhi

Authorized Signatory

Raj Kumar
Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Ambient Air)

Report No.: GECRC/N/A/22/11/29/005

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Air Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/A/22/11/21/05
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-02
Date of Monitoring	12.11.2022 to 13.11.2022	Party Ref. No	-
Time of Monitoring	1288 min.	Receipt Date	21.11.2022
Scope of Monitoring	Environmental Monitoring	Latitude	24.453068°
Instrument calibration status	Calibrated	Longitude	81.202961°
Surrounding activity	-	Ambient Temperature - Ta (°C)	28
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) Pyrene (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: B. Swobhi

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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

Note:

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GSTIN:09AARFG5353K1ZS



TEST REPORT (Noise Quality)

Report No.: GECRC/N/22/11/29/011

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/22/11/21/012
Sampling Location	mine site (SAN 1)	Format No.	7.5 F-04
Date of Monitoring	12.11.2022 to 13.11.2022	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	21.11.2022
Scope of Monitoring	Environmental Monitoring	Latitude	24.453095°
Instrument Used	Noise Meter	Longitude	81.202976°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	29
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)	28.7	-	IS:9989-1981
2.	L _{max}	dB(A)	63.7	-	IS:9989-1981
3.	Leq day	dB(A)	46.7	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	36.0	70 dB(A)	IS:9989-1981
5.	L _{dn}	dB(A)	41.3	-	IS:9989-1981

Checked by:

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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

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GSTIN: 09AARFG5353K1ZS



TEST REPORT (Noise Quality)

Report No.: GECRC/N/22/11/29/012

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Ambient Noise Sample
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Sample Number	GECRC/N/22/11/21/013
Sampling Location	Village Chhoti Lalitpur (SAN 5)	Format No.	7.5 F-04
Date of Monitoring	13.11.2022 to 14.11.2022	Party Ref. No	-
Time of Monitoring	24 Hrs.	Receipt Date	21.11.2022
Scope of Monitoring	Environmental Monitoring	Latitude	24.491821°
Instrument Used	Noise Meter	Longitude	81.188980°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	29
Instrument calibration status	Calibrated	Meteorological Condition	Clear Sky
Sampling Duration	24 Hrs.	Control measure if any	No any
Parameter Required	Lmin, Lmax, Leq day, Leq night, Ldn	Protocol Used	IS: 9989-1981 & CPCB Guidelines

RESULTS

All Values in dB (A)

S. No.	Parameters	Unit	Results	Noise pollution (Regulation And Control) Rules, 2000	Method
1.	Lmin	dB(A)	28.1	-	IS:9989-1981
2.	Lmax	dB(A)	57.8	-	IS:9989-1981
3.	Leq day	dB(A)	51.0	75 dB(A)	IS:9989-1981
4.	Leq night	dB(A)	40.6	70 dB(A)	IS:9989-1981
5.	Ldn	dB(A)	45.9	-	IS:9989-1981

Checked by:

Surabhi

Authorized Signatory

Raj Kumar
Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Water)

Report No: GECRC/W/22/11/28/011

Reporting Date: 28.11.2022

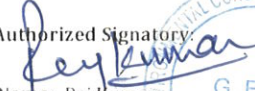
Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhriya Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/W/22/11/21/0023
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine site (SGWS1)	Party Ref. No	NA
Sampling Date	14.11.2022	Receipt Date	21.11.2022
Sampling & Analysis Period	21.11.2022 to 28.11.2022	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	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	pH	-	IS : 3025 (Part-11)	7.38	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	696.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	<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)	370.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	380.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	160.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	220.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	64.0	75.0	200.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	53.5	30.0	100.0
12	Chloride	mg/l	IS : 3025 (Part-32)	24.5	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	104.0	200.0	400.0
14	Nitrate	mg/l	IS : 3025 (Part-34)	16.6	45.0	No Relaxation
15	Iron	mg/l	IS : 3025 (Part-53)	0.22	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)	<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	4.4	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	<0.003	0.05	No Relaxation

BDL = Below Detection Limit,

Checked by: 

Authorized Signatory: 

Name: Raj Kumar

Designation: Technical Manager

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Report No GECRC/N/W/22/11/21/011

(Water)

Reporting Date: 28.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/W/22/11/21/023
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Mine Site (SGWS1)	Party Ref. No	NA
Sampling Date	14.11.2022	Receipt Date	21.11.2022
Sampling & Analysis Period	21.11.2022 to 28.11.2022	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate , Zinc, MPN, 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)	<5.0	-	-
2	Zinc	mg/l	IS : 3025 (Part-49)	<5.0	5	15
3	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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TEST REPORT (Water)

Report No: GECRC/W/22/11/28/012

Reporting Date: 28.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhiriya Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/W/22/11/21/034
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Pagra (SGWS2)	Party Ref. No	NA
Sampling Date	14.11.2022	Receipt Date	21.11.2022
Sampling & Analysis Period	21.11.2022 to 28.11.2022	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	Specification IS:10500:2012	
					Acceptable Limit	Permissible Limit
1	pH	-	IS : 3025 (Part-11)	7.45	6.5-8.5	No Relaxation
2	Conductivity	µS/cm	IS : 3025 (Part-14)	730.0	-	-
3	Turbidity	NTU	IS : 3025 (Part-10)	<0.5	1.0	5.0
4	Total Dissolved Solids	mg/l	IS : 3025 (Part-16)	400.0	500.0	2000.0
5	Total Solids	mg/l	IS : 3025 (Part-15)	420.0	-	-
6	Total Alkalinity	mg/l	IS : 3025 (Part-23)	360.0	200.0	600.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	540.0	200.0	600.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	300.0	-	-
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	240.0	-	-
10	Calcium	mg/l	IS : 3025 (Part-40)	120.0	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)	23.5	250.0	1000.0
13	Sulphate	mg/l	IS : 3025 (Part-24)	118.0	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)	0.26	0.3	No Relaxation
16	Fluoride	mg/l	IS : 3025 (Part-60)	0.5	1.0	1.5
17	COD	mg/l	IS : 3025 (Part-58)	<4.0	-	-
18	BOD	mg/l	IS : 3025 (Part-44)	<2.0	-	-
19	DO	mg/l	IS : 3025 (Part-38)	4.5	-	-
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	<0.5	-	-
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	<0.003	0.05	No Relaxation

BDL = Below Detection Limit,

Checked by: *[Signature]*

Authorized Signatory:

[Signature]
Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Water)

Report No GECRC/N/W/22/11/21/012

Reporting Date: 28.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagra Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Ground Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/W/22/11/21/024
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-01
Sampling Location	Village Pagra (SGWS2)	Party Ref. No	NA
Sampling Date	14.11.2022	Receipt Date	21.11.2022
Sampling & Analysis Period	21.11.2022 to 28.11.2022	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate , Zinc, MPN, 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)	<5.0	-	-
2	Zinc	mg/l	IS : 3025 (Part-49)	<5.0	5	15
3	Coliform	MPN/100ml	IS : 1622 :1981	Absent	Absent	Absent

BDL = Below Detection Limit,

Checked by:

Authorized Signatory:

Name: Raj Kumar G. E. C.
Designation: Technical Manager

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TEST REPORT (Surface Water)

Report No: GECRC/SW/22/11/28/003

Reporting Date: 28.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/SW/22/11/21/020
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	14.11.2022	Receipt Date	21.11.2022
Sampling & Analysis Period	21.11.2022 to 26.11.2022	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)	8.00
2	Conductivity	µS/cm	IS : 3025 (Part-14)	689.0
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)	225.0
7	Total Hardness	mg/l	IS : 3025 (Part-21)	336.0
8	Calcium Hardness	mg/l	IS : 3025 (Part-40)	192.6
9	Magnesium Hardness	mg/l	IS : 3025 (Part-46)	144.0
10	Calcium	mg/l	IS : 3025 (Part-40)	77.0
11	Magnesium	mg/l	IS : 3025 (Part-46)	34.9
12	Chloride	mg/l	IS : 3025 (Part-32)	17.5
13	Sulphate	mg/l	IS : 3025 (Part-24)	81.2
14	Nitrate	mg/l	IS : 3025 (Part-34)	7.0
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)	28.0
18	BOD	mg/l	IS : 3025 (Part-44)	8.1
19	DO	mg/l	IS : 3025 (Part-38)	6.6
20	Oil & Grease	mg/l	IS : 3025 (Part-39)	4.0
21	Total Chromium	mg/l	IS : 3025 (Part - 52)	0.12

Checked by:

Authorized Signatory:

Name: Raj Kumar
Designation: Technical Manager

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TEST REPORT (Surface Water)

Report No: GECRC/N/SW/22/11/28/003

Reporting Date: 28.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Surface Water
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/SW/22/11/21/020
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	14.11.2022	Receipt Date	21.11.2022
Sampling & Analysis Period	21.11.2022 to 26.11.2022	Latitude	-
Type of Sampling	Grab	Longitude	-
Sample Quantity	01 Liter	Preservation	Yes
Parameter Required	Phosphate , Zinc, MPN, Coliform	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameter	Unit	Method	Result
1	Phosphate	mg/l	IS : 3025 (Part-11)	5.5
2	Zinc	mg/l	IS : 3025 (Part-49)	<5.0
3	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



TEST REPORT (Soil)

Report No: GECRC/S/22/11/28/007

Reporting Date: 28.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara - Jhriya Limestone Mine), Rampur Baghelan, satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/S/22/11/21/016
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	14.11.2022	Receipt Date	21.11.2022
Sampling & Analysis Period	21.11.2022 to 26.11.2022	Latitude	-
Type of Sampling	Composite	Longitude	-
Sample Quantity	01 Kg	Preservation	Yes
Parameter Required	pH, EC, Organic matter, Phosphorous, Potassium	Protocol Used	IS:3025(Part-1)

RESULTS

S. No.	Parameters	Unit	Test Method	Results
1	pH	-	IS : 2720 (Part -26)	7.97
2	Electrical Conductivity	(mS/cm)	IS : 14767 : 2000	0.424
3	Organic matter	%	IS : 2720 (Part -22)	1.132
4	Phosphorous	mg/kg	GECRC/SOIL/TP/14	17.2
5	Potassium	mg/kg	IS : 9497 :2005	7.5

Checked by:

Surebhi

Authorized Signatory:

Raj Kumar

Name: Raj Kumar

Designation: Technical Manager

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TEST REPORT (Soil)

Report No: GECRC/N/S/22/11/28/007

Reporting Date: 28.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited, (Pagara -Jhiriya Limestone Mine), Rampur Baghelan , satna, M. P.	Sample Description	Soil
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Number	GECRC/S/22/11/21/016
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	14.11.2022	Receipt Date	21.11.2022
Sampling & Analysis Period	21.11.2022 to 26.11.2022	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:3025(Part-1)

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	70.0
3	Free Ammonical Nitrogen	mg/kg	IS 14684:1999	24.1
4	Copper	mg/kg	IS : 440 :1964	<0.1
5	Lead	mg/kg	IS : 440 :1964	<0.1
6	Cadmium	mg/kg	GECRC/SOIL/TP/14	<0.05
7	Hexavalent Chromium	mg/kg	GECRC/SOIL/TP/13	<0.01

BDL= BelowDetection Limit

Checked by:

Swabhe

Authorized Signatory

Raj Kumar
Name: Raj Kumar
Designation: Technical Manager

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

Note:

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



GSTIN:09AARFG5353K1Z5

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/N/22/11/29/035

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Mr. Akhand Pratap Singh	Sample Number	GECRC/N/22/11/21/035
Sampling Location	Pagra mine site (Loading Point)	Format No.	7.5 F-04
Date of Monitoring	14.11.2022	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	21.11.2022
Scope of Monitoring	Environmental Monitoring	Latitude	24.453082°
Instrument Used	Noise Meter	Longitude	81.202936°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	28
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)	37.2	-	IS:9989-1981
2.	L _{max}	dB(A)	59.4	85 dB(A)	IS:9989-1981

Checked by:

Authorized Signatory

Name: Raj Kumar
Designation: Technical Manager

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

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TEST REPORT (Noise Quality)

Report No.: GECRC/N/N/22/11/29/034

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Work Zone Noise Sample
Sample Collected by (Name & Designation)	Mr. Akhand Pratap Singh	Sample Number	GECRC/N/22/11/21/034
Sampling Location	Pagra Working Pit	Format No.	7.5 F-04
Date of Monitoring	13.11.2022	Party Ref. No	-
Time of Monitoring	08 Hrs.	Receipt Date	21.11.2022
Scope of Monitoring	Environmental Monitoring	Latitude	24.452850°
Instrument Used	Noise Meter	Longitude	81.203668°
Instrument code	GECRC/EQP/02	Ambient Temperature - Ta (°C)	29
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)	42.8	-	IS:9989-1981
2.	L _{max}	dB(A)	61.5	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/22/11/29/031

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Fugitive Emission
		Sample Number	GECRC/A/22/11/21/031
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Village Bela (Transportation Point)	Party Ref. No	-
Date of Monitoring	13.11.2022 to 14.11.2022	Receipt Date	21.11.2022
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	27
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)	108.5	µg/m ³	600.0

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

Checked by: Swagathi

Authorized Signatory


G.E.C.

Name: Raj Kumar

Designation: Technical Manager

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

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TEST REPORT (Fugitive Emission)

Report No.: GECRC/N/A/22/11/29/030

Date: 29.11.2022

Name & Address of Party	M/s Dalmia Cement Bharat Limited (Pagra-Jhiriya Limestone mine) Rampur Baghelan, Satna (MP.)		
Client Representative (Name & Designation)	Mr. Mrinal Kanti Sen	Sample Description	Fugitive Emission
		Sample Number	GECRC/A/22/11/21/030
Sample Collected by (Name & Designation)	Mr. Sanjay Kumar Yadav (Field Supervisor)	Format No.	7.5 F-02
Sampling Location	Bela near Highway (Satna to Rewa) (Transportation Point)	Party Ref. No	-
Date of Monitoring	12.11.2022 to 13.11.2022	Receipt Date	21.11.2022
Time of Monitoring	08 Hrs.	Latitude	-
Scope of Monitoring	Environmental Monitoring	Longitude	-
Instrument calibration status	Calibrated	Ambient Temperature - Ta (°C)	29
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)	135.6	µg/m ³	600.0

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

Checked by: Burabhi

Authorized Signatory

Name: Raj Kumar

Designation: Technical Manager

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