

DCBL/ENV/MoEF&CC/ SANGODA MINES/EC/COMPL/052025/01

Date: 07.05.2025

To,
The Additional Principal Chief Conservator of Forests
Ministry of Environment, Forest & Climate Change,
Regional Office (West Central Zone),
Ground Floor, East Wing, New Secretariat Building,
Civil Lines, Nagpur - 440001.

Sub: Half yearly Compliance Report of Environmental Clearance issued for Sangoda Limestone Mine (ML Area: 154.70 Ha) located at Sangoda Village, Tq. Korpana, in Chandrapur Distt., in Maharashtra for the period of October 2024 to March 2025.



Ref: 1. Environmental Clearance F. No. - J-11015/213/2006- IA. II(M), Date: 22.05.2007
2. Transfer of EC vide F. No. - J-11015/213/2006- IA. II(M), Dated 06.09.2021

Dear Sir,

With respect to the subject referred above, we are submitting herewith the point wise half yearly compliance of above referred Environmental Clearance for our Sangoda Limestone Mines (ML Area: 154.70 Ha) for the period of **October 2024 to March 2025**.

Submitted for your kind information and record please.

Thanking you
Yours Faithfully,
For **M/s Dalmia Cement (Bharat) Ltd.**
Sangoda Limestone Mine



(Subbaraidu Ayyagari)
Unit Head

CC: 1. The Regional Director, Central Pollution Control Board (CPCB), Regional Office, Survey No, 110, Dhankude Multipurpose Hall, Baner Road, Baner, Pune, Maharashtra - 411045.

2. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. CineMax Theatre, Sion (E), Mumbai - 400 022.

3. Regional Officer, Maharashtra Pollution Control Board (MPCB), 1st Floor, Udyog Bhawan, Railway Station Road, Chandrapur - 442401

Dalmia Cement (Bharat) Limited

Chandrapur Cement Works, Village, Naranda, Taluka - Korpana, District - Chandrapur - 442916, Maharashtra, India

Corporate Office - 11th & 12th Floor, Hansalaya Building, 15 Barakhamba Road, New Delhi - 110 001, Delhi, India

T +91 11 2346 5100 Toll Free 1800 2020 W www.dalmiacement.com CIN: U65191TN1996PLC035963

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

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

Proposal No	IA/MH/MIN/223306/2021
Compliance ID	128322661
Compliance Number(For Tracking)	EC/M/COMPLIANCE/128322661/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	30-05-2025
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	MAHARASHTRA
RO/SRO Office Address	Integrated Regional Offices, Nagpur

Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, MAHARASHTRA with Notification to Project Proponent.

ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

Ref: Environmental Clearance: Environment Clearance No. - J-11015/213/2006- IA. II(M), Date: 22.05.2007 & EC Transfer Dated 06.09.2021

Name of the Industry: Sangoda Lime Stone Mines, Dalmia Cement (Bharat) Limited

EC Details – Environmental Clearance for Sangoda Limestone Mine at Tq. Korpana, in Chandrapur Distt., in Maharashtra.

Compliance Period – October 2024 to March 2025

A. Specific Conditions:

(i)	Topsoil, should be stacked properly with proper slope at ear marked site (s) with adequate measures and should be used for reclamation and rehabilitation of mined out area	<ul style="list-style-type: none">After acquisition of the Murli Industries Ltd., we have stated the mining recently. The top soil regenerated during the mine's operation will be stacked as per Mining plan.
(ii)	External OB dumps and other wastes should be stacked at earmarked sites only and should not be kept active for long period till its use for backfilling. Toe walls around the waste dumps shall be made to ensure and to prevent erosion and surface runoff. The total height of the dumps shall not exceed 30 m, each stage should preferably be of 10 m. Overall slope of the dump shall not exceed 28°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas use of geo textiles shall be undertaken for stabilization of the dumps. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests on six monthly basis.	<ul style="list-style-type: none">The topsoil in the mining area striped and preserved along the mine lease boundary.The height of the dump will be maintained below 30 m at 10 m each stage.The overall slope of the dump will be maintained below 28°. Native species will be planted on the OB dump to prevent the soil erosion and surface runoff.Plantation is being carried out for stability of dumps. The top soil will be back filled for reclamation stage of mining.Monitoring and management of the vegetation will be done till the vegetation become self-sustaining.The compliance status is being submitted to MoEF&CC along with half yearly compliance report.
(iii)	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after monsoon and maintained properly.	<ul style="list-style-type: none">Catch drains and siltation ponds provided to arrest the silt and sediment flow from the mines working area.The collected water will be utilized for the Mines operation, Greenbelt development & plantation and dust suppression on roads.The drains will be regularly desilted at regular intervals and maintained properly.

(iv)	Garland drain (size, gradient and length) shall be constructed for both mine pit and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals	Garland drain will be constructed for mine pit & sump capacity will be designed by considering 50 % safety margin based on IMD data of rain fall in the region. Sedimentation pits will be constructed at the corners of the garland drains and desilted at regular intervals.
(v)	Plantation shall be raised along the mine lease area including OB dumps which will be reclaimed by green belt / afforestation in consultation with the local DFO / Agriculture Department around mine lease area etc. The density of the trees should be around 2500 plants per ha.	After acquisition of the Murli Industries Ltd., we have stated the mining activities recently. The plantation and green belt development activity started along the ML boundary. Plantation will be done at OB dumps with maintaining density of 2500 plants per ha.
(vi)	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Rainwater Harvesting injection wells are constructed in nearby community to recharge the ground water, in addition to this nearby village ponds are deepened to store more rainwater and also recharge the ground water to enhance the water table. Photographs of rain Water Harvesting structures and village pond is enclosed as Annexure-I .
(vii)	Drilling and blasting shall be by dust extractors and wet drilling.	Drilling and blasting will be carried out by dust extractors. Wet drilling method is being and will be imparted for drilling during mining operation
(viii)	Ground water table shall not be encountered during mining operations. Mine working will be restricted to above water table. Prior approval of MOEF shall be taken in case mining intersects ground water table.	<ul style="list-style-type: none"> • As per IBM approved mining plan, ground water table will not be encountered during mining operations. Mine working will be restricted to above water table. • Prior approval will be taken from MoEF&CC in case we intersect the ground water table.
(ix)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out two times in a year - pre-monsoon (April-May), post-monsoon (November) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground water Board.	<ul style="list-style-type: none"> • Regular monitoring of ground water level and quality is being conducted in and around mining lease area. • Construction of piezometer at mines lease area is under progress. • Pre-monsoon and post monsoon Ground water quality monitoring reports is being submitted to MoEF&CC, CGWA, Regional Director, CGWB. • Ground water quality report is enclosed as Annexure-II

(x)	Existing ecological status of the project area shall be conserved and protected. The project proponent should take all possible precautionary measures during mining operation for conservation and protection of endangered fauna (Schedule-I), if any, spotted in the project area. Action plans for the same shall be prepared in consultation with wildlife department along with allocation of funds for this purpose and shall be submitted to R.O. of the Ministry at Bhopal	There is no presence of endangered fauna (Schedule-I) in and around the ML area of Sangoda limestone mine
(xi)	Permission from the competent authority should be obtained for drawl of ground water if any, required for the project.	Ground water NOC obtained from CGWB vide NOC No.: CGWA/NOC/MIN/ORIG/2023/18167 dated 12.04.2023. Copy of NOC is enclosed as Annexure-III .
(xii)	Suitable rainwater harvesting measures on long-term basis shall be planned and implemented in consultation with Regional Director, CGWB.	Rainwater Harvesting injection wells are constructed in nearby community to recharge the ground water, in addition to this nearby village ponds are deepened to store more rainwater and also recharge the ground water to enhance the water table. Photographs of rain Water Harvesting structures and village pond is enclosed as Annexure-I .
(xiii)	An 50m barrier of shale between the ML area and the river shall be no mining zone. The barrier shall be afforested with plantation to prevent inundation of the area.	Noted. An 50m barrier of shale between the ML area and the river is being maintained as no mining zone. The barrier will be afforested with plantation to prevent inundation of the area. Till date, we have planted 8300 Nos of native plant species in Mine Lease area
(xiv)	The company shall engage a doctor, who is trained in occupational health surveillance.	<ul style="list-style-type: none"> • Company has established the dispensary at the plant site with medical practitioner along with the nursing staff. Company ambulance is available to shift the casualty in case of serious condition or Emergency. • For occupational health and safety measures periodical health check-up is being carried out by medical practitioner.
(xv)	At the end of the mine life. The mined-out area should be backfilled to the extent possible, levelled and reclaimed by plantations.	At the end of the mine life, the mined-out area will be backfilled and reclaimed by plantation as per the IBM approved mining plan.
(xvi)	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded	<ul style="list-style-type: none"> • Only PUC certified vehicles will be used for mining excavation and transportation. • Vehicles transporting ore will be covered through Tarpaulin to control dust emission.

(xvii)	The study report of socioeconomic profile including the cropping pattern for 38 villages in buffer zone shall be submitted within one year from the date of issue of environmental clearance and submitted to the Ministry of Environment & Forests.	Complied with Company has been recovered from Insolvency through National Company Law Tribunal (NCLT) route, the older documents are not available.
(xviii)	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation will be taken based on the rainfall data history in the region.
(xx)	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and mineral separation plant wastewater.	Domestic waste water i.e. office toilets will be disposed-off in Septic tank via soak pit. All the equipment and HEMM are outsourced and maintenance, repairing is being done at designated workshop only.
(xxi)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the ministry of Environment & Forests 5 years in advance of final mine closure for approval.	A Final Mine Closure Plan along with details of Corpus Fund will be submitted to the ministry of Environment & Forests 5 years in advance of final mine closure for approval.
(xxii)	The company shall pay compensation to the land ousters as per the land Acquisition Act/ or as decided by the State Government	Complied with.
	General conditions	
(i)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment d Forests.	Noted and will be followed.
(ii)	No change in the. calendar plan including excavation, quantum of mineral limestone ore and waste shall be made	Noted and will be followed.
(iii)	Conservation measures for protection of flora and fauna, in the core & buffer zone shall be drawn up in consultation with the local forest and wildlife deportment	Noted and will be followed.
(iv)	Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO2, NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of	We have established four ambient air quality-monitoring stations in the core zone as well as in the buffer zone for monitoring of RPM, SPM, SO2, NO2 by considering the metrological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring in consultation with the MPCB.

	monitoring should be undertaken in consultation with the State Pollution Control Board	Ambient Air Quality Monitoring data from Oct-24 to Mar-25 is enclosed as Annexure-IV.
(v)	Data on ambient air quality (RPM, SPM, SO ₂ , NO _x) should be regularly submitted to the Ministry including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months	<ul style="list-style-type: none"> • We have installed Continuous Ambient Air Quality Monitoring Station (CAAQMs) in Mine Lease area for continuous monitoring of Environmental Parameters. Photograph of CAAQMs Station is enclosed as Annexure-V. • Monitoring results of ambient air quality (RPM, SPM, SO₂, NO₂) is being submitted to MPCB on Monthly basis and to the Integrated Regional office of MoEF&CC, Nagpur, Regional Office of CPCB, Pune along with the half yearly compliance report. • Latest monthly monitoring report is enclosed as Annexure-VII
(vi)	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	Water sprinkling is being and will be done at haul roads, loading and unloading points and material transfer points to control the fugitive dust emission.
(vii)	Measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs.	<ul style="list-style-type: none"> • We have taken all the control measures to maintain the Noise Level below 85 dB in the work environment. <p>The ambient noise level monitoring data from Oct-24 to Mar-25 is enclosed as Annexure-VI.</p> <ul style="list-style-type: none"> • Required PPE like ear plug and Ear muffs is being provided to the workmen engaged in the operation of HEMM.
(viii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19.05.1993 and 31.12.1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	<ul style="list-style-type: none"> • There will be no generation of Trade effluent from mining process. • The hazardous waste generated from the Mines operation will be disposed / recycled as per Hazardous and Other Waste management rule. • All the equipment and HEMM are outsourced and maintenance, repairing is being done at designated workshop only.
(ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	<ul style="list-style-type: none"> • PPEs i.e. Dust Mask is being provided to the workers working in the dusty area. • Regular trainings & information are providing to workers on Health and safety awareness.
(x)	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contraindications due to exposure to dust and take corrective measures, if needed.	Occupational Health Surveillance program of the workers is being carried out by medical practitioner at plant site to observe any contraindications due to exposure to dust and taking corrective measures.

(xi)	A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate environmental management cell comprising of qualified and experienced staff is established under the control of Senior Executive who report to Unit head.
(xii)	The project authorities shall inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Complied with.
(xiii)	The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bhopal.	Funds earmarked for environmental protection measures will be kept in separate account and will not be diverted for other purpose. Year wise EMP expenditures details enclosed as Annexure-VIII .
(xiv)	The project authorities shall inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work	Noted, Complied with
(xv)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports	Noted and we will extend full cooperation to the officials of Regional office during their visit.
(xvi)	A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom suggestion/ representation has been received while processing the proposal.	Complied with
(xvii)	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days	Complied with
(xviii)	The project authorities should advertise at least n two local newspaper widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the letter has been accorded environmental clearance and a copy of the clearance	Complied with Company has been recovered from Insolvency through National Company Law Tribunal (NCLT) route, the older documents are not available.

	letter is available with the State pollution Control Board and also at web site of the Ministry of Environment and Forests at- http://envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of this Ministry located Bhopal.	
(xx)	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 & will be Complied
(XXI)	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	Noted & will be Complied
(XXII)	The above conditions will be enforced inter-alia, under the provisions of the Water Prevention (Control of Pollution) Act, 1974, the Air (Prevention and Control of pollution) Act, 1981 the- Environment (Protection) Act, 1986 and the Public Liability insurance Act, 1991 along - with their amendments and rules.	Noted & will be Complied

RAINWATER HARVESTING MEASURES



Naranda Village (RWH-1)



Naranda Village (RWH-2)



Naranda Village (RWH-3)



Naranda Village (RWH-4)



Naranda Village (RWH-5)



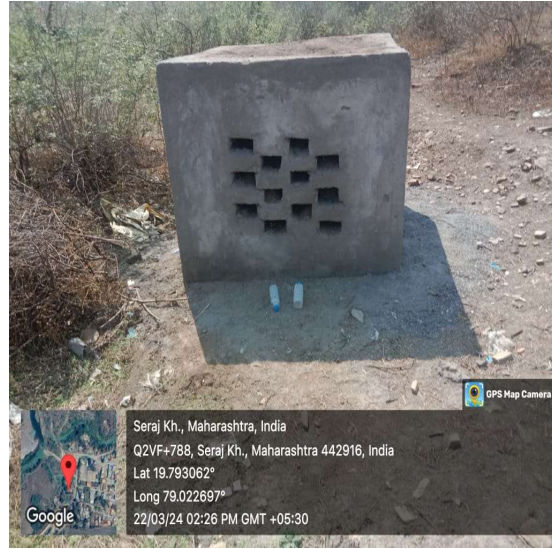
Plant Site (RWH-6)



Pimpri Village (RWH-7)



Pimpri Village (RWH-8)



Pimpri Village (RWH-9)



Loni Village (RWH-10)



Bori Navegaon Vill. (RWH-11)



Kadholi Kh Vill.(RWH-12)



Wanoja Village (RWH-13)



Wanoja Village (RWH-14)



Zutting Village (RWH-15)



Zutting Village (RWH-16)



Zutting Village (RWH-17)



Zutting Village (RWH-18)



Zutting Village (RWH-19)



Zutting Village (RWH-20)

DEEPENING OF POND NEAR NARANDA VILLAGE



CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/10

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/10	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Sangoda Block -3 (Core zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	376.00	mg/L	APHA 23rd Edn 2320 B	-
2	BOD at 27 oC for 3 days	3.8	mg/L	IS 3025-Part 44	-
3	Chemical Oxygen Demand (COD)	16.00	mg/L	APHA 23rd Edn 5220 B	-
4	Chloride	135.96	mg/L	IS 3025- Part 32	-
5	Conductivity	1224.0	uS/cm	IS 3025- Part 14	-
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	-
7	pH at 25 °C	7.46	-	IS 3025- Part 11	-
8	Sulphate	78.54	mg/L	APHA 23rd Edn 4500 SO ₄ E	-
9	Total Dissolved Solids (TDS)	842.00	mg/L	APHA 23rd Edn 2540 C	-
10	Total Suspended Solids (TSS)	13.00	mg/L	APHA 23rd Edn 2540 D	-
11	Total Hardness as CaCO ₃	418.00	mg/L	APHA 23rd Edn 2340 C	-
12	Carbonate as CaCO ₃	BQL (QL=2)	mg/L	APHA 23rd Edn 2320 B	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Analyzed By
Aarmi Patel



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/10

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra




SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/10	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Sangoda Block -3 (Core zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Bi Carbonate as CaHco3	376	mg/L	APHA 23rd Edn 2320 B	-
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
15	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	-
17	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
18	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
19	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
20	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
21	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	-
22	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
23	Nitrate	2.97	mg/L	APHA 23rd Edn 4500 NO3 B	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Aarmi Patel




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/11

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra




SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/11	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Handpump Sai Kirana Sangoda Village (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	589.00	mg/L	APHA 23rd Edn 2320 B	-
2	BOD at 27 oC for 3 days	8.0	mg/L	IS 3025-Part 44	-
3	Chemical Oxygen Demand (COD)	36.00	mg/L	APHA 23rd Edn 5220 B	-
4	Chloride	272.92	mg/L	IS 3025- Part 32	-
5	Conductivity	2253.0	uS/cm	IS 3025- Part 14	-
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	-
7	pH at 25 °C	7.30	-	IS 3025- Part 11	-
8	Sulphate	234.60	mg/L	APHA 23rd Edn 4500 SO ₄ E	-
9	Total Dissolved Solids (TDS)	1546.00	mg/L	APHA 23rd Edn 2540 C	-
10	Total Suspended Solids (TSS)	16.00	mg/L	APHA 23rd Edn 2540 D	-
11	Total Hardness as CaCO ₃	838.00	mg/L	APHA 23rd Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Aarmi Patel




Authorized Signatory
Manish Kumawat

Page No : 1/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/11

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra

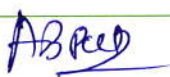


SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/11	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Handpump Sai Kirana Sangoda Village (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
12	Carbonate as CaCO ₃	BQL (QL=2)	mg/L	APHA 23rd Edn 2320 B	-
13	Bi Carbonate as CaHco ₃	589	mg/L	APHA 23rd Edn 2320 B	-
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
15	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	-
17	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
18	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
19	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
20	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
21	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	-
22	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Aarmi Patel




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/12

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra




SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/12	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Near Pralad Atram House Tap Water (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	481.00	mg/L	APHA 23rd Edn 2320 B	-
2	BOD at 27 oC for 3 days	6.7	mg/L	IS 3025-Part 44	-
3	Chemical Oxygen Demand (COD)	24.00	mg/L	APHA 23rd Edn 5220 B	-
4	Chloride	126.96	mg/L	IS 3025- Part 32	-
5	Conductivity	1282.1	uS/cm	IS 3025- Part 14	-
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	-
7	pH at 25 °C	7.42	-	IS 3025- Part 11	-
8	Sulphate	67.32	mg/L	APHA 23rd Edn 4500 SO ₄ E	-
9	Total Dissolved Solids (TDS)	789.00	mg/L	APHA 23rd Edn 2540 C	-
10	Total Suspended Solids (TSS)	13.00	mg/L	APHA 23rd Edn 2540 D	-
11	Total Hardness as CaCO ₃	434.00	mg/L	APHA 23rd Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Aarmi Patel




Authorized Signatory
Manish Kumawat

Page No : 1/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/12

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra




SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/12	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Near Pralad Atram House Tap Water (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
12	Carbonate as CaCO ₃	BQL (QL=2)	mg/L	APHA 23rd Edn 2320 B	-
13	Bi Carbonate as CaHco ₃	481	mg/L	APHA 23rd Edn 2320 B	-
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
15	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	-
17	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
18	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
19	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
20	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
21	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	-
22	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


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Aarmi Patel




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Manish Kumawat

Page No : 2/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/13

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/13	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Handpump Near Bus Stop Gadegaon Village (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	448.00	mg/L	APHA 23rd Edn 2320 B	-
2	BOD at 27 oC for 3 days	9.1	mg/L	IS 3025-Part 44	-
3	Chemical Oxygen Demand (COD)	28.00	mg/L	APHA 23rd Edn 5220 B	-
4	Chloride	182.94	mg/L	IS 3025- Part 32	-
5	Conductivity	1535.1	uS/cm	IS 3025- Part 14	-
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	-
7	pH at 25 °C	7.48	-	IS 3025- Part 11	-
8	Sulphate	128.11	mg/L	APHA 23rd Edn 4500 SO ₄ E	-
9	Total Dissolved Solids (TDS)	1056.00	mg/L	APHA 23rd Edn 2540 C	-
10	Total Suspended Solids (TSS)	13.00	mg/L	APHA 23rd Edn 2540 D	-
11	Total Hardness as CaCO ₃	536.00	mg/L	APHA 23rd Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Aarmi Patel




Authorized Signatory
Manish Kumawat

Page No : 1/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/13

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/13	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Handpump Near Bus Stop Gadegaon Village (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
12	Carbonate as CaCO ₃	BQL (QL=2)	mg/L	APHA 23rd Edn 2320 B	-
13	Bi Carbonate as CaHco ₃	448	mg/L	APHA 23rd Edn 2320 B	-
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
15	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	-
17	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
18	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
19	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
20	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
21	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	-
22	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Analyzed By
Aarmi Patel



Authorized Signatory
Manish Kumawat

Page No : 2/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/14

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra

Reporting Date : 25/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/14	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Handpump Near Gramin Vidhyalaya paramdoh (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	343.00	mg/L	APHA 23rd Edn 2320 B	-
2	BOD at 27 oC for 3 days	4.5	mg/L	IS 3025-Part 44	-
3	Chemical Oxygen Demand (COD)	16.00	mg/L	APHA 23rd Edn 5220 B	-
4	Chloride	134.96	mg/L	IS 3025- Part 32	-
5	Conductivity	1252.2	uS/cm	IS 3025- Part 14	-
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	-
7	pH at 25 °C	7.51	-	IS 3025- Part 11	-
8	Sulphate	81.60	mg/L	APHA 23rd Edn 4500 SO ₄ E	-
9	Total Dissolved Solids (TDS)	831.00	mg/L	APHA 23rd Edn 2540 C	-
10	Total Suspended Solids (TSS)	16.00	mg/L	APHA 23rd Edn 2540 D	-
11	Total Hardness as CaCO ₃	363.00	mg/L	APHA 23rd Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

AB Patel
Analyzed By
Aarmi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/14

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra

Reporting Date : 25/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/14	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Handpump Near Gramin Vidhyalaya paramdoh (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
12	Carbonate as CaCO ₃	BQL (QL=2)	mg/L	APHA 23rd Edn 2320 B	-
13	Bi Carbonate as CaHco ₃	343	mg/L	APHA 23rd Edn 2320 B	-
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
15	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	-
17	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
18	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-
19	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
20	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	-
21	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	-
22	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Aarmi Patel




Authorized Signatory
Manish Kumawat

Page No : 2/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/14

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra

Reporting Date : 25/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/14	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Ground Water	Analysis Start Date:	18/11/2024
Sample Description:	G.W Of Handpump Near Gramin Vidhyalaya paramdoh (Buffer zone)	Analysis End Date:	24/11/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
23	Nitrate	3.22	mg/L	APHA 23rd Edn 4500 NO3 B	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Analyzed By
Aarmi Patel



Authorized Signatory
Manish Kumawat

Page No : 3/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/10

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,

Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/10	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Sangoda Block-3 Borewell- Core Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	380.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 oC for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	127.96	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1120	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.58	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	88.11	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	680.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	460.00	mg/L	APHA 24th Edn 2340 C	200	600
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS

AL & PL AS Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Tantan Kumar



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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/10

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/10	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Sangoda Block-3 Borewell- Core Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	BiCarbonates	380	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	3.64	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
23	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.5	2.4

AL & PL AS Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/11

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/11	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Hand Pump Nr. Sai Kirana Sangoda Village- Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	580.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 oC for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	223.93	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1969.2	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	164.93	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	1180.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	800.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Tantan Kumar



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Payal Patel

Page No : 1/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/11

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



TC-7673

SAMPLE DETAILS

Lab ID: Lab/PN/3827D/10/11
Sample Drawn By: Maulik Prajapati
Sample Type: Ground Water
Sample Description: Hand Pump Nr. Sai Kirana Sangoda Village-
Buffer Zone
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 17/02/2025
Sample Receipt Date: 19/02/2025
Analysis Start Date: 20/02/2025
Analysis End Date: 27/02/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS
13	BiCarbonates	580	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	9.8	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Tantan Kumar



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Payal Patel

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(b). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. This document is issued by the Company under its General Conditions of Service available on request. Attention is drawn to the limited area of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the company's findings at the time of its intervention only and

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/12

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,

Tehsil Korpana, District Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/12	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Near Pralad Astram House Tap Water - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	395.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 °C for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	131.87	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1190.2	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.66	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	72.67	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	704.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	8.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	450.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Page No : 1/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/12

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/12	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Near Pralad Astram House Tap Water - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS
13	BiCarbonates	395.0	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	4.54	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Tantan Kumar



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Page No : 2/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/13

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/13	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Bus Stop Gadegaon Village - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	460.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 oC for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	129.96	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1279.1	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.72	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	68.71	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	748.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	500.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/13

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/13	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Bus Stop Gadegaon Village - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS
13	BiCarbonates	460	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	3.66	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/14

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/14	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Gramin Vidhyalaya Paramdoh - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	350.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 °C for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	147.95	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1166.2	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.84	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	64.65	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	674.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	7.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	400.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/14

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/14	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Gramin Vidhyalaya Paramdoh - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS
13	BiCarbonates	350.0	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	3.97	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Report Number: GGMPL/PN/3827D/10/14

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/14	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Gramin Vidhyalaya Paramdoh - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
23	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.5	2.4

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/10

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,

Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/10	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Sangoda Block-3 Borewell- Core Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	380.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 oC for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	127.96	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1120	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.58	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	88.11	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	680.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	460.00	mg/L	APHA 24th Edn 2340 C	200	600
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS

AL & PL AS Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Report Number: GGMPL/PN/3827D/10/10

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/10	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Sangoda Block-3 Borewell- Core Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	BiCarbonates	380	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	3.64	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
23	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.5	2.4

AL & PL AS Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/11

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/11	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Hand Pump Nr. Sai Kirana Sangoda Village- Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	580.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 oC for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	223.93	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1969.2	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	164.93	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	1180.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	800.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Page No : 1/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/11

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



TC-7673

SAMPLE DETAILS

Lab ID: Lab/PN/3827D/10/11
Sample Drawn By: Maulik Prajapati
Sample Type: Ground Water
Sample Description: Hand Pump Nr. Sai Kirana Sangoda Village-
Buffer Zone
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 17/02/2025
Sample Receipt Date: 19/02/2025
Analysis Start Date: 20/02/2025
Analysis End Date: 27/02/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS
13	BiCarbonates	580	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	9.8	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Tantan Kumar



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Payal Patel

Page No : 2/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/12

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/12	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Near Pralad Astram House Tap Water - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	395.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 °C for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	131.87	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1190.2	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.66	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	72.67	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	704.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	8.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	450.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Tantan Kumar



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Payal Patel

Page No : 1/3

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/12

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/12	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Near Pralad Astram House Tap Water - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS
13	BiCarbonates	395.0	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	4.54	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/13

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/13	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Bus Stop Gadegaon Village - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	460.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 oC for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	129.96	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1279.1	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.72	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	68.71	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	748.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	500.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/13

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/13	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Bus Stop Gadegaon Village - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS
13	BiCarbonates	460	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	3.66	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/13

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,

Tehsil Korpana, District Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/13	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Bus Stop Gadegaon Village - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
23	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.5	2.4

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/14

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/14	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Gramin Vidhyalaya Paramdoh - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	350.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 °C for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	147.95	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	1166.2	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.84	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	64.65	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	674.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	7.00	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	400.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/14

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/3827D/10/14	Sampling Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	19/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Handpump Nr. Gramin Vidhyalaya Paramdoh - Buffer Zone	Analysis End Date:	27/02/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS
13	BiCarbonates	350.0	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	3.97	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Tantan Kumar



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Payal Patel

Page No : 2/3

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ANNEXURE-02

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

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Dalmia Cement (bharat) Ltd - Sangoda Limestone Mine (murli Industries Ltd)		
Project Address:	Kh. No. 3 To 74 Village Sangoda, Tahsil Korpana District, Chandrapur		
Village:	Sangoda	Block:	Korpana
District:	Chandrapur	State:	Maharashtra
Pin Code:			
Communication Address:	Village Naranda, Tahsil Korpana, District Chandrapur, Korpana, Chandrapur, Maharashtra - 442916		
Address of CGWB Regional Office :	Central Ground Water Board Central Region, N.s. Building, Civil Lines, Nagpur, Maharashtra - 440001		

1.	NOC No.:	CGWA/NOC/MIN/ORIG/2023/18167					2.	Date of Issuance	12/04/2023				
3.	Application No.:	21-4/8857/MH/MIN/2022					4.	Category: (GWRE 2020)	Safe				
5.	Project Status:	New Project					6.	NOC Type:	New				
7.	Valid from:	12/04/2023					8.	Valid up to:	11/04/2025				
9.	Ground Water Abstraction Permitted:												
Fresh Water			Saline Water			Dewatering			Total				
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year			
30.00		9900.00											
10.	Details of ground water abstraction /Dewatering structures												
Total Existing No.:0							Total Proposed No.:1						
		DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*		0	0	0	0	0	0	0	0	1	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps													
11.	Ground Water Abstraction/Restoration Charges paid (Rs.):							9900.00					
12.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers		Monitoring Mechanism					
Manual								DWLR**		DWLR With Telemetry			
**DWLR - Digital Water Level Recorder					1		1		0		0		

(Compliance Conditions given overleaf)

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

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Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

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SAVE WATER - SAVE LIFE

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

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

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

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Website: cgwa-noc.gov.in

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ANNEXURE-IV
AMBIENT AIR QUALITY MONITORING DATA

AAQ-01 Mines Lease Boundary-East Side				
Month	PM_{2.5} (µg/m³)	PM₁₀ (µg/m³)	SO₂ (µg/m³)	NO₂(µg/m³)
Standard	60	100.0	80.0	80.0
October-24	29.2	59.5	13.2	21.3
November-24	39.6	70.5	17.4	31.0
December-24	26.2	57.4	14.2	19.6
January-25	38.7	74.9	15.9	26.9
February-25	39.2	76.0	18.8	29.8
March-25	34.6	74.9	16.6	28.9
AAQ-02 Mines Lease Boundary-South Side				
October-24	27.1	54.1	13.9	21.2
November-24	36.7	69.8	16.7	27.1
December-24	25.4	56.2	12.2	23.1
January-25	37.9	72.9	16.2	29.0
February-25	32.1	70.5	13.6	23.1
March-25	36.2	75.5	18.0	30.2
AAQ-03 Mines Lease Boundary-North Side				
October-24	26.7	53.4	14.4	23.7
November-24	30.4	65.6	13.4	24.3
December-24	24.2	50.1	12.6	22.3
January-25	34.2	69.0	15.4	23.7
February-25	37.1	74.8	16.7	27.2
March-25	32.5	72.9	14.2	25.5
AAQ-04 Mines Lease Boundary-West Side				
October-24	27.5	55.3	12.0	23.1
November-24	36.7	67.5	15.8	28.6
December-24	25.8	57.7	10.7	25.4
January-25	34.6	70.3	15.6	25.3
February-25	34.6	72.2	14.6	25.5
March-25	38.3	77.8	19.5	32.0

ANNEXURE-V
INSTALLATION OF CAAQMS STATION



ANNEXURE-VI
AMBIENT NOISE LEVEL MONITORING DATA

Sr. No.	Location	Mines Lease Boundary East		Mines Lease Boundary South		Mines Lease Boundary North		Mines Lease Boundary West	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	Standard-	75 (dB)	70 (dB)	75 (dB)	70 (dB)	75 (dB)	70 (dB)	75 (dB)	70 (dB)
1	October-24	62.1	59.2	62.3	60.1	60.4	58.8	58.9	57.1
2	November-24	58.1	51.6	57.4	53.6	56.1	54.1	55.9	52.9
3	December-24	56.8	52.1	56.2	52.4	55.8	52.6	55.9	49.9
4	January-25	68.7	62.1	66.8	62.5	67.7	61.4	67.8	63.4
5	February-25	59.2	49.9	58.6	51.9	54.2	52.6	62.2	53.6
6	March-25	55.9	52.4	56.7	52.9	56.4	53.2	54.8	51.9

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/01

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/01	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Lease Boundary Sangoda Mine East (Core Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond. Sampling:	Temp 32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond. Testing:	25±5°C

Sl.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	74.90	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m ³	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO ₂)	16.60	µg/m ³	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.92	µg/m ³	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	1.11	mg/m ³	IS 5182- Part 10	4

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL=Quantification Limit

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Gyanvati Shukla



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/02

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/02	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Lease Boundry Sangoda Mine West (Core Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	77.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.33	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.49	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	32.01	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/03

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/03	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Leas Boundry Sangoda Mine North (Core Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	72.90	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	11.21	µg/m3	IS 5102 Part 2	80
4	Oxides of Nitrogen	25.52	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/04

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/04	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Leas Boundry Sangoda Mine South (Core Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	75.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.04	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	30.24	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4

Norms As Per National Ambient Air Quality Standards.

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--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/04A

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra

SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/04	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Leas Boundry Sangoda Mine South (Core Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters*	Results	Unit	Test Method	Norms
1	Free Silica	0.017	mg/m3	GGMPL/SOP/WZ/64	NS

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Reviewed & Authorized by
Gyanvati Shukla



Reviewed & Authorized by
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/05

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.
3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/05	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Near Sangoda Village (Buffer Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.10	µg/m ³	IS 5182 Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m ³	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO ₂)	15.16	µg/m ³	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.37	µg/m ³	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	1.11	mg/m ³	IS 5182- Part 10	4

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/06

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,, Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/06	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Near Gadeqaon Village (Buffer Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	63.16	µg/m ³	IS 5182 Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m ³	GGMPL/SOI/AA/60	60
3	Sulphur Dioxide (SO ₂)	11.55	µg/m ³	IS 5182-Part 2	80
4	Oxides of Nitrogen	23.94	µg/m ³	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	1.04	mg/m ³	IS 5182- Part 10	4

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/07

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/07	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Near Karvahi village (Buffer Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.40	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.23	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4049D/10/08

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/4049D/10/08	Sampling Start Date:	09/03/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	10/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/03/2025
Sample Description:	Near Paramdoh Village (Buffer Zone)	Analysis start- End Date:	12/03/2025-18/03/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-46%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	60.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.08	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	10.70	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	21.42	µg/m3	IS 5182- Part 6	80
5	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4049D/10/09

Reporting Date: 19/03/2025

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

09/03/2025

Sample By Maulik Prajapati

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/4049D/1 0/09A	Lease Boundary Sangoda Mine East	Day Time	dB(A)Leq	IS 4758	55.9	-
2	Lab/PN/4049D/1 0/09B	Lease Boundary Sangoda Mine West	Day Time	dB(A)Leq	IS 4758	54.8	-
3	Lab/PN/4049D/1 0/09C	Lease Boundary Sangoda Mine North	Day Time	dB(A)Leq	IS 4758	56.4	-
4	Lab/PN/4049D/1 0/09D	Lease Boundary Sangoda Mine South	Day Time	dB(A)Leq	IS 4758	56.7	-
5	Lab/PN/4049D/1 0/09A	Lease Boundary Sangoda Mine East	Night Time	dB(A)Leq	IS 4758	52.4	-
6	Lab/PN/4049D/1 0/09B	Lease Boundary Sangoda Mine West	Night Time	dB(A)Leq	IS 4758	51.9	-
7	Lab/PN/4049D/1 0/09C	Lease Boundary Sangoda Mine North	Night Time	dB(A)Leq	IS 4758	53.2	-
8	Lab/PN/4049D/1 0/09D	Lease Boundary Sangoda Mine South	Night Time	dB(A)Leq	IS 4758	52.9	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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ANNEXURE-VIII
YEAR WISE EMP EXPENDITURES DETAILS

All Figures are in Rs. Lakhs

SN	Activity	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
2	Fugitive Dust Emission Control Measures	0.0	0.1	0	3.62
3	Environment Monitoring	0.0	2.8	53	2.52
4	Construction of Drainage for water management	0.0	0.5	0	0
6	Green Belt Development	0.0	0.1	1.8	10.8
8	Water Tanker for the Dust Suppression	0.0	0.3	0	0.4
9	Water Tanker for the Green Belt Development	0.0	0.3	0	0.8
	Total	4.0	4.0	54.8	18.14
	Grand Total	80.94			

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/15

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.

3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra



SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/15	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Soil	Analysis Start Date:	18/11/2024
Sample Description:	Sangoda Mine Pit	Analysis End Date:	24/11/2024
Sample Quantity:	2 kg	Sampling Method:	GGMPL/WI/27F
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Available Phosphorus	BQL (QL=2)	mg/kg	GGMPL/SOP/SOIL/44	-
2	pH	7.83	-	IS 2720 (Part 26)	-
3	Conductivity	863	uS/cm	IS 14767	-
4	Iron	51956.32	mg/Kg	USEPA Method 3051A	-
5	Chloride	2460.32	mg/kg	GGMPL/SOP/SOIL/45	-
6	Organic Matter	0.78	%	IS 2720 (Part XXII)	-
7	Sodium	1061.25	mg/kg	USEPA Method 3051A	-
8	Total Kjeldahl Nitrogen	139.13	mg/kg	IS 14684	-
9	Water Holding Capacity	32.54	%	IS 14765	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Analyzed By
Aarmi Patel



--- End of Report ---

Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2787D/10/15A

Reporting Date : 25/11/2024

Dalmia Cement (Bharat) Ltd.


3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda, Tehsil Korpana, District
Chandrapur Maharashtra

SAMPLE DETAILS

Lab ID:	Lab/PN/2787D/10/15	Sampling Date:	16/11/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/11/2024
Sample Type:	Soil	Analysis Start Date:	18/11/2024
Sample Description:	Sangoda Mine Pit	Analysis End Date:	24/11/2024
Sample Quantity:	2 kg	Sampling Method:	GGMPL/WI/27F
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters*	Results	Unit	Test Method	Norm
1	Sulphate	31.43	mg/kg	IS 2720(Part 27)-1977 (RA 2015)	-
2	Phosphorus As P	BQL (QL=2)	mg/kg	GGMPL/SOP/SOIL/44	-
3	Nitrate	7.54	mg/kg	GGMPL/SOIL/SOP-57	-
4	Available Nitrogen	183.52	Kg/ha	IS 14684: 2005	-
5	Phosphate As PO4	2.95	mg/kg	GGMPL/SOP/SOIL/44	-
6	Exchangeable Calcium	72.73	meq/100gm	IS 5949: 2003	-
7	Available Potassium	127.86	kg/ha	USEPA Method 3051A	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


Analyzed By
Aarmi Patel




Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/15

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra

Reporting Date : 27/02/2025



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/3827D/10/15
Sample Drawn By: Maulik Prajapati
Sample Type: Soil
Sample Description: Sangoda Mine Pit
Sample Quantity: 2 kg
Sample Condition: Satisfactory

Sampling Date: 17/02/2025
Sample Receipt Date: 19/02/2025
Analysis Start Date: 20/02/2025
Analysis End Date: 27/02/2025
Sampling Method: GGMPL/WI/27F
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Total Soluble Sulphate	22.44	mg/kg	IS 2720-Part 27	-
2	Available Phosphorus	BQL (QL=2)	mg/kg	GGMPL/SOP/SOIL/44	-
3	pH	7.86	-	IS 2720-Part 26	-
4	Electrical Conductivity	683.2	uS/cm	IS 14767	-
5	Iron	4678.81	mg/Kg	USEPA Method 3051A	-
6	Chloride	2292.87	mg/kg	GGMPL/SOP/SOIL/45	-
7	Organic Matter	0.68	%	IS 2720 (Part XXII)	-
8	Sodium	1014.42	mg/kg	USEPA Method 3051A	-
9	Total Kjeldahl Nitrogen	117.31	mg/kg	IS 14684	-
10	Water Holding Capacity	37.16	%	IS 14765	-
11	Available Nitrogen	204.40	Kg/ha	IS 14684: 2005	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Reviewed & Authorized by
Tantan Kumar



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3827D/10/15A

Reporting Date : 27/02/2025

Dalmia Cement (Bharat) Ltd.

Sangoda Lime Stone Mines, 3/1, 3/2/A, 3/2/B, 3/3/A, 3/3/B,,Village Sangoda,
Tehsil Korpana, District Chandrapur Maharashtra

SAMPLE DETAILS

Lab ID: Lab/PN/3827D/10/15
Sample Drawn By: Maulik Prajapati
Sample Type: Soil
Sample Description: Sangoda Mine Pit
Sample Quantity: 2 kg
Sample Condition: Satisfactory

Sampling Date: 17/02/2025
Sample Receipt Date: 19/02/2025
Analysis Start Date: 20/02/2025
Analysis End Date: 27/02/2025
Sampling Method: GGMPL/WI/27F
Packing: Sealed

Sr.No	Parameters*	Results	Unit	Test Method	Norm
1	Nitrate	6.35	mg/kg	GGMPL/SOIL/SOP-57	-
2	Phosphate As PO4	BQL (QL=2)	mg/kg	GGMPL/SOP/SOIL/44	-
3	Exchangeable Calcium	9.38	meq/100gm	IS 5949: 2003	-
4	Available Potassium	122.80	kg/ha	USEPA Method 3051A	-

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Tantan Kumar



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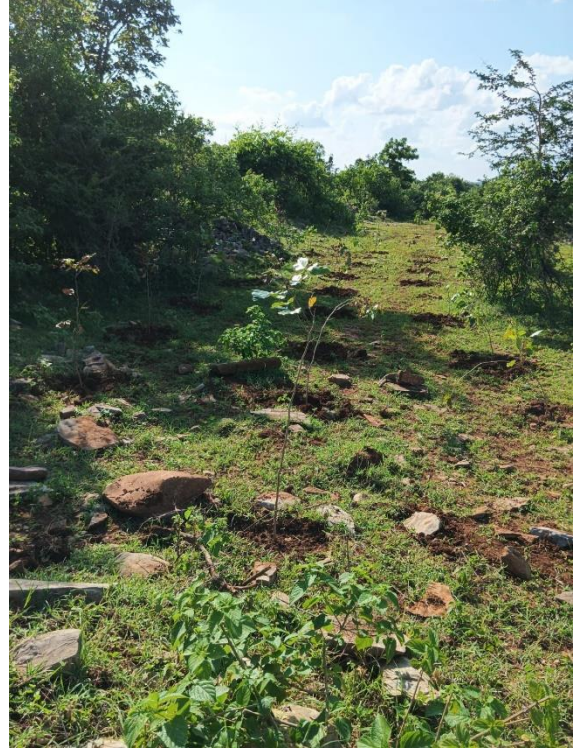
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