

No: DBGVL/Sattur/Env/05/2024-25

Date: 29<sup>th</sup> May 2024

To

**The Member Secretary,**  
State Environment Impact Assessment Authority (SEIAA), Tamil Nadu,  
3rd Floor, Panagal Maaligai,  
No.1, Jeenis Road,  
Saidapet, Chennai – 600 015

**Sub:** Submission of 3rd Half yearly EC compliance report for a unit of M/S Dalmia Bharat Green Vision Ltd. "Meenakshi Cement Works" located at Mulliseval village and part of Peddureddipatti village, Sattur Taluk, Virudhunagar District, Tamil Nadu - 626205.

**Ref:** Environmental clearance granted by the State Environment Impact Assessment Authority (SEIAA) of Tamil Nadu, vide SEIAA Letter No. SEIAA/TN/F8848/EC/3(b)/97/2021 dated 18th June 2022, EC identification No. EC22B009TN138448, and File No. 8848.

Dear Sir,

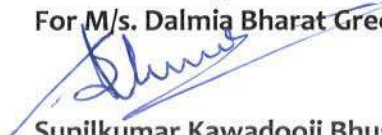
With reference to the aforesaid subject and reference, Submitting the 3rd Half yearly Environment Clearance compliance report for standalone grinding unit of M/S Dalmia Bharat Green Vision Ltd. "Meenakshi Cement Works" located at Mulliseval village and part of Peddureddipatti village, Sattur Taluk, Virudhunagar District, Tamil Nadu - 626205. Compliance period from 1st October 2023 to 31st March 2024. The compliance report will be uploaded in our website within 15 days.

Kindly acknowledge the receipt of same.

Thanking you,

Yours faithfully,

**For M/s. Dalmia Bharat Green Vision Ltd.**

  
**Sunilkumar Kawadooju Bhusari**

Unit Head

**Encl:** Half yearly compliance report with annexures.

- CC:** 1. The Joint Chief Environmental Engineer, TNPCB, Tirunelveli- 627 007.  
2. The District Environmental Engineer, TNPCB, Virudhunagar - 626 002.  
3. The Zonal Officer, Central Pollution Control Board, Bangalore – 560079.  
4. The Scientist 'E' & Incharge, Central Pollution Control Board, Chennai – 600058.  
5. MoEFCC, Regional Office (SEZ), Nungambakkam, Chennai – 600034.

***Dalmia Bharat Green Vision Limited***

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: U70109TN2021PLC143683

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

Site Address: Meenakshi Cement Works, 66/3A Mulliseval(Vil &PO) Sattur - 626205, Tamil Nadu, India

A **Dalmia Bharat Group** company, www.dalmiabharat.com

**Dalmia Bharat Green Vision Limited**  
Unit: Meenakshi Cement Work  
Mulliseval Village, Sattur Taluk, Virudhunagar District.

**Half yearly EC Compliance report**

**Ref:** Environmental Clearance vide SEIAA Letter No. SEIAA/TN/F 8848/EC/ 3(b)/97/2021 dated 18<sup>th</sup> June 2022, EC identification no EC22B009TN138448 and File No. 8848.

Compliance period from 1<sup>st</sup> October 2023 to 31<sup>st</sup> March 2024.  
(3<sup>rd</sup> Six-monthly EC compliance report)

S. No	Conditions	Compliance status
<b><u>Specific Conditions:</u></b>		
1.	At any point of time, the Production capacity will not exceed 2x2.5 MTPA: OPC/PPC/PSC/PCC	<b>Noted for compliance.</b> Production capacity will not exceed 2x2.5 MTPA: OPC/PPC/PSC/PCC at any point of production. Now, Established phase-1 line-I with a production capacity of 1 x 2.5 MTPA cement production. Phase II will be established later.
2.	Ground water for industrial Purpose to be phased out in 5 years. The industry to explore possibilities to meet the Water consumption for industrial Purpose through treated sewage obtained from nearest local body/rain water harvesting.	<b>Noted for compliance.</b> The unit is only a grinding unit and water requirement is only for equipment cooling, mill spray and domestic. The same is planned to be sourced from Permitted Borewells for which NOC has been obtained from State Surface and Ground Water Resources Data Centre, Chennai vide Letter Ref No. DD(G)/OT 10/G-6/963/Renewal-NOC/Karaikudi /2023/dated:30.11.2023 valid till 24.08.2024.  For mill spray and equipment cooling, harvested rain water is being utilized during monsoon to available extend and also approached the "Municipal Commissioner and Engineering In-charge of STP Sattur" for supply of treated sewage water. On their commitment for sustainable supply, necessary infrastructure will be created to utilize it for mill spray. Further, treated water from sewage treatment plant is used for gardening.
3.	The PP shall furnish fresh water supply commitment from local	<b>Complied with.</b> NOC obtained from State Surface and Ground Water Resources Data Centre, Chennai vide letter for 210000 Liters per Day vide Letter Ref No.DD(G)/OT

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	body before obtaining CTO from TNPCB.	10/G-6/963/Renewal-NOC/Karaikudi/2023/dated: 30.11.2023 valid till 24.08.2024.
4.	The project proponent shall provide STP of capacity 9 KLD and treated water shall be utilized for flushing and green belt proposed.	<b>Complied with.</b> STP of 20 KLD capacity has been installed to treat generated domestic waste water and the treated water is being utilized for green belt.
5.	Treated/untreated sewage shall not be let-out from the unit at any point of time.	<b>Noted and being complied with.</b> The domestic waste water generated is being treated in 20 KLD STP. The treated water is used for gardening purpose.
6.	The PP shall provide adequate bag filters & Emissions from bag filter should be below 10mg/Nm <sup>3</sup> .	<b>Noted and being complied with.</b> Cement mill is fully equipped with efficient bag house, pollution Control equipment have been installed at varies emission source place/stack, as specified to control emission and keep emission level within the prescribed limit.  The Bag Filters are designed to maintain the emission norms below 10 mg/Nm <sup>3</sup> . However, as directed in SEIAA Specific Condition No. 1, the APC measures will achieve Emission Standards for Cement Industries issued by CPCB vide Notifications dated 25.08.2014 and amended on 09.05.2016 & 10.05.2016 i.e. Particulate Matter (PM) Emission <30 mg/Nm <sup>3</sup> . A letter in this regard has been submitted to TN State Level EIA authority, dated 27 <sup>th</sup> April 2023.
7.	There is no open storage of raw material/finished product in the unit premises	<b>Noted and being complied with.</b> Clinker, Dry Fly ash and Cement are stored inside the silos vented with bag filters. Additives raw materials like Gypsum, Slag, Coal etc. are stored inside the covered sheds.
8.	The PP shall test for radio-active material in the gypsum used for cement in the AERB authorized lab continuously. In case, any	<b>Noted for Compliance.</b> Sample gypsum material is analysed in AERB-accreted laboratory to ensure the absence of radioactive material.

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	radio-activity is noticed then the said gypsum shall not be used.	The radio active analysis report is attached as <b>annexure - 1</b>
9.	Comprehensive and periodical health checkup should be conducted for workers with reference to health problems like silicosis due to the particulate matter generated in the industry.	<b>Noted and being complied with.</b> Pre-employment health checkup is being conducted for employees regularly. Pre-employment & Periodical health check as per the factories act including silicosis is being carried out. Health checkup report has been enclosed as an <b>annexure - 2</b>
10.	Adequate engineering measures should be implemented to contain fugitive emissions within the prescribed limit.	<b>Noted and being complied with.</b> Efficient bag filters have been installed at loading and unloading sessions, transfer towers & silos, hood has been provided on conveyor system and raw material is being stored under covered shed in order to reduce fugitive emissions. Further, Tree saplings of native species are planted at plant premises for developing the green belt area to control airborne dust emissions.
11.	Workers should be protected against inhalation of dust particles with appropriate protective measures.	<b>Noted for compliance</b> Efficient bag filters have been installed at loading and unloading sessions, transfer towers & silos, hood has been provided on conveyor system and raw material is being stored under covered shed in order to reduce fugitive emissions. Further, wear three and Carry three concepts shall be followed by every employee and in dust prone areas wearing mask is mandatory to all workers. Awareness training programs on safety and health aspects is also been arranged regularly.
12.	The green belt shall be developed in at least 33% of total plant area. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the	<b>Noted and under implementation.</b> Currently 4500 saplings have been planted across the boundary as per recommendation of DFO viz Puliyamaram, Atthimaram, Tekku, Vembu, Pungam, Senjsanathanam, Savukku and Poovarasu. Aavi, Sengkondrai, Manchalkondrai, Naval, Vaadham, Mahakni, Further, planned to plant varieties of Plants inside the premises in this year.

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	<p><b>appendix</b>, in consultation with the DFO, State Agriculture. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.</p>	<p>Thick cover of green belt constituting 33% of the total plant area shall be developed in a phase wise within five years consisting of Native species.</p> <p>Photographs are attached as <b>Annexure-3</b></p>
13.	<p>Taller/one year old saplings raised in appropriate size of bags, preferably eco- friendly bags should be planted in proper espacement as per the advice of local forest authorities/ botanist / Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.</p>	<p><b>Noted and under implementation.</b></p> <p>Plants are procured from the Nursery and also from the forest department with at least 3 to 5 feet height. Saplings are being purchased from the Nursery and ensured that saplings are grown in the eco-friendly bag. Thick green cover is proposed along the compound wall and its GPS coordinates shall be provided during implementation stage year wise.</p>
14.	<p>The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.</p>	<p><b>Noted and being complied with.</b></p> <p>All the roof top collected rainwater is channelized and stored in a pond which will be utilized in the process.</p> <p>Further, the run off from the paved and unpaved roads are connected to a storm water drain and routed to a Rain water harvesting pond. The proposal feasibility is being studied through experts, the report has been submitted with 1<sup>st</sup> six-monthly EC compliance report period from 18th June 2022 to 31st March 2023</p>
15.	<p>The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous &amp; Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of</p>	<p><b>Noted for compliance</b></p> <p>Plant commenced on 14<sup>th</sup> Aug 2023 and submission of application for Hazardous Waste authorization is in progress. at present, HW waste generation and storage are nil.</p>



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	Hazardous waste within the premises.	
16.	No waste of any type to be disposed off in any other way other than the approved one.	<b>Noted.</b> All the waste generated from the plant operations will be disposed /sold to authorized recyclers/disposers.
17.	The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.	<b>Noted and Being complied with.</b> Post COVID health management, like creating awareness, ensuring double dosage vaccination for all employees, ensuring nose masks, using hand sanitizers / periodical hand washing, and maintaining social distance among the employees, has been practiced.
18.	The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post COVID period.	<b>Noted for compliance.</b> A occupational Health Centre with needed infrastructure and Factory medical officer is available for continuously monitoring the health of the construction workers.
19.	The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.	<b>Noted and being complied with.</b> Ambient Air Quality monitoring is being carried out at plant premises including CO through accredited Labs, The Air Quality report is enclosed as <b>Annexure - 4.</b>
20.	Entire roof of the proposed sheds shall be covered with Solar panels and utilization of the Solar energy should not be less than 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.	<b>Noted and under implementation.</b> It is not feasible to install solar panels on the entire roof of the proposed sheds due to constraints in the layout. A feasibility report has been prepared for the installation of a 16 MW solar plant (12.5 MW through ground mounted & 1 MW AC by roof top installation) and installation is in progress, and once commissioned, the partial energy requirement of the plant shall be met by the solar plant.
21.	The PP shall conduct job fair & provide technical training for skill	<b>Noted and Being complied with.</b>

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	development in the vicinity of the project site and Job opportunity shall be given to local peoples.	Based on the job nature, potential persons from the neighboring community has been provided with the job opportunity both directly and indirectly. Through CSR, by deploying recognized institutions/competent persons, technical training for the skill development to locals shall be carried out for benefiting their livelihood and increasing Job opportunities.
22.	That the grant of this EC issued from the environmental angle only and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the condition laid down in all other law for the time-being in force, rests with the project proponent.	<b>Noted</b>
23.	As per the MoEF&CC Office Memorandum F. No. 22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020, the proponent shall include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.	<b>Noted for compliance.</b> There is no demolition of structure during the project phase. However, during any modernization and upgradation activities in future, demolishing plan shall be prepared and implemented.
24.	At accepted by the Project Proponent, an amount of Rs. 7.5 crore shall be spent at CER, for the establishing Biodiversity Lab at Kallakkadu Mundanthurai Tiger Reserve (Rs. 3.6 Cr.) and Development of Nellai Wild Life Sanctuary, Ganigaikondan WLS & Koonthankulam Bird Sanctuary (Rs.3.9 Cr). in consultation with State Forest Department before obtaining CTO from TNPCB.	<b>Noted and being complied.</b> As mentioned in the proposed EC application, the plant will be established in a phased manner. Now that Phase-I has been established, letter submitted to SEIAA-TN on 28 <sup>th</sup> April 2023, for consideration of paying the CER amount of 50% during Phase I establishment and the remaining in Phase II implementation. 3.6 Cr paid for establishing Biodiversity Lab at Kallakkadu Mundanthurai Tiger Reserve. 3.9 Cr will be paid for Development of Nellai Wild Life Sanctuary, Ganigaikondan WLS & Koonthankulam Bird Sanctuary during Phase-II implementation.

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S. No	Conditions	Compliance status
(A)	<b>Standard Conditions</b>	
1.	The APC measures to achieve Emission standards for cement Industries issued by CPCB shall be complied.	<b>Noted for compliance.</b> All the Bag filters are designed and installed to meet the emission norms prescribed by the board.
2.	The fugitive emission during loading and unloading shall be suitably controlled. Fugitive emission in the work zone environment and raw materials storage & handling areas shall be regularly monitored. The emission shall conform to the limits prescribed by the TNPCB/CPCB.	<b>Noted and being complied.</b> Enclosures has been provided at all unloading stations to control fugitives. All transfer points have been fully closed and fugitives will be controlled by extraction to bag filters. All belt conveyors are closed.  Clinker, Cement and Dry Flyash are stored in silos vented with efficient bag filters to control emissions. Additives like gypsum, Wet flyash, Limestone, Slag are stored in closed covered sheds.  Fugitive emissions is monitored on quarterly basis through NABL accredited labs. The latest report is enclosed as <b>Annexure - 5</b>
3.	Vehicular emission should be kept under control and each vehicle shall carry valid Emission certificate issued by the Competent Authority.	<b>Noted for Compliance.</b> Water sprinkling is being carried out on the unpaved roads deployed for transportation. Also, at the plant entrance itself, vehicles are checked for 'Pollution under Control' Certificate along with other statutory documents.
4.	Adequate dust extraction system such as ESP/cyclones/bag filters/Wet scrubbers and water spray system, transfer areas and other vulnerable dusty areas shall be provided.	<b>Noted for compliance</b> Bag filters have been installed at all transfer points for fugitive and material transport dust control. Enclosures have been provided at all unloading stations with water spraying system to control fugitives. All transfer points have been fully closed and fugitives are controlled by extraction to bag filters. All belt conveyors are closed.
5.	Raw material storage area should be covered by the closed shed with elevated impermeable concrete base along with the provision of	<b>Noted and being complied with.</b> Raw materials and finished products are being stored in silos and covered sheds with elevated impermeable concreted base. Clinker, Dry Fly ash and Cement are

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	piezometric well so as to monitor the ground water quality in the raw material storage area.	stored inside the silos vented with bag filters. Additives raw materials like Gypsum, Slag, Coal, Wet Fly ash etc. are stored inside the covered sheds. Piezometric well is available to monitor the ground water level/quality near the raw material storage area.
6.	Adequate Pollution Control measure such as Ducting with dust extracting arrangement, water sprinkling, spraying wherever required shall be established to achieve Occupational-health standards and Ambient air quality standards.	<b>Noted and being complied with.</b> Bag filters have been installed at all transfer points for fugitive and material transport dust control. Enclosures have been provided at all unloading stations with water spraying system to control fugitives. All transfer points are fully closed to control fugitive dust by extraction to bag filters. All belt conveyors are closed.
7.	Chimney height shall be provided with continuous online monitoring equipments for SO <sub>2</sub> , NO <sub>x</sub> and Particulate Matter (PM <sub>2.5</sub> & PM <sub>10</sub> ).	<b>Noted and being complied with.</b> Cement mill has been provided with a stack height of 49.0 m. Continuous Emission Monitoring system has been installed for monitoring. Kindly note that in Cement mill there is no source of SO <sub>2</sub> , NO <sub>x</sub> emissions and also as per CPCB circular ref. No. B-29016/04/06/PCI-II dated 23 <sup>rd</sup> December 2016 there is no requirement for Continuous monitoring of SO <sub>2</sub> & NO <sub>x</sub> for Standalone Grinding Units.
8.	The Waste water /Sewage generated from any other source other than indicated shall also be taken to ETP/STP redesigning the plants if required.	<b>Noted for compliance.</b> Standalone grinding unit and as dry cement grinding process no effluent generation from the process. The domestic waste water generated is being treated in a 20 KLD STP and treated water is utilized for Greenbelt development. The design of STP is done according to the characteristics of domestic waste water generation.
9.	The water demand for the green belt shall be met from treated effluent/sewage only after exhausting the treated effluent/sewage drawl of fresh water for this purpose shall be considered.	<b>Noted for Compliance.</b> The entire treated water from STP will be utilized for Greenbelt development. Further, treated water from STP shall be used for mill spray.

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10.	The hazardous wastes generated shall be disposed as per the provision of Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016.	<b>Noted for Compliance during operational.</b> Plant commenced on 14th Aug 2023 and submission of application for Hazardous Waste authorization is in progress. at present, HW waste generation and storage are nil at plant premises.
11.	Ambient Air Quality Monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> & particulate Matter anticipated. At least four ambient air quality monitoring station should consultation with State Pollution Control Board based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring etc.	<b>Noted and Being complied with.</b> Continuous Ambient Air Monitoring systems have been installed at four locations near Water Treatment Plant (WTP) in Upwind (NE), near Barrack in downwind (SW), Near switch yard (SE) and Near Clinker Silo (NW) as per the GLC study in the EIA report. AAQMS data of near Barrack in downwind (SW) and Near switch yard (SE) is being shared with Care Air Center TNPCB. Further, Ambient Air monitoring is being carried out by NABL accredited labs at four location Viz Near Water Treatment Plant (NE), near Power supply room in downwind (SW), near Switch yard (SE), near clinker silo (NW). For TNPCB Consultation letter has been submitted vide Letter No. DCGVL/Sattur/Env/02/2023-24 dated 8 <sup>th</sup> May 2023. the communication letter has been submitted with 1 <sup>st</sup> six-monthly EC compliance report period from 18th June 2022 to 31st March 2023
12.	The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.	<b>Noted.</b> Ambient Air monitoring was being carried out by NABL accredited labs at four location. Plant commenced on 14 <sup>th</sup> Aug'2023, plant had run with minimum efficiency and it was under stabilization, 1 <sup>st</sup> Dec 2023 onward the Ambient Air monitoring is being carried out twice in a week. Ambient Air Monitoring reports have been enclosed as annexure – 4.
13.	Interlocking system between process plant and pollution control	<b>Complied.</b>

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	equipment shall be installed, in case of treatment process disturbances/failure of pollution control equipment the industry shall be stopped and shall be restarted until the control measures are rectified to achieve the desired efficiency.	Interlock facilities have been installed. If the emission level of Cement mill and Packer goes above the prescribed norms, the ID fans get tripped automatically and the unit will be tripped.
14.	Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.	<b>Noted and being complied with.</b> Ambient Noise is being carried out quarterly from the NABL accredited labs during construction, Now, Monthly Ambient Air monitoring is being carried out by NABL accredited labs at four locations Plant commenced on 14th Aug'2023, accordingly plant had run with minimum efficiency and it was under stabilization, 1st Dec 2023 onward the Ambient Air monitoring is being carried out twice in a week. Monitoring report attached as <b>Annexure-4</b>
15.	A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.	<b>Being complied with</b> A full fledge separate environmental cell is in place with an environment professional under the direct supervision of Unit Head. Also, we have formed department wise SPOC's persons to monitor the Environmental aspects/impacts for taking effective corrective measures through Environment Management programme (EMP).
16.	The land area earmarked within the project area for green belt development shall be developed in consultation with DFO on the selection of the species & number of plantation to be carried out.	<b>Under implementation.</b> Currently 4500 saplings have been planted across the boundary as per recommendation of DFO viz Puliyaaram, Atthimaram, Tekku, Vembu, Pungam, Senjsanthanam, Savukku and Poovarasu. Aavi, Sengkondrai, Manchalkondrai, Naval, Vaadham, Mahakni, Further, planned to plant varieties of Plants inside the premises in this year.

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		Thick cover of green belt constituting 33% of the total plant area shall be developed in a phase wise within five years consisting of Native species
17.	The industry shall promote tree plantation to neutralize their carbon foot print. Green Belt consisting of three tiers of plantation of native species around plant and at least 75m width shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80%.	<p><b>Noted for Compliance.</b></p> <p>As a responsible corporate all actions will be taken to reduce the carbon footprint, like improving Energy efficiency, Reducing clinker to Cement ratio and establishment of Solar Power Plant. Thick cover of green belt constituting 33% of the total plant area shall be developed in a phase wise within five years consisting of native species covering 75 m width with density not less than 2500 per ha.</p> <p>Dedicated team for Proper care including regular trimming &amp; pruning of plants and watering are being carried out to achieve survival rate of more than 80%.</p>
18.	Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water drawl.	<p><b>Noted for Compliance.</b></p> <p>All the roof top collected rainwater has been connected and stored in a pond which will be utilized in the process.</p> <p>Further, the runoff from the paved and unpaved roads have been connected to a storm water drain and routed to a Rain water harvesting pond. The proposal feasibility is being studied through experts.</p>
19.	Scheduled Flora and fauna found in the study area of the core zone around the project site shall be monitored closely and a plan shall be prepared and implemented for their conservation.	<p><b>Noted for Compliance.</b></p> <p>Conservation plan for Schedule-I species peafowl has been prepared by Dr.M.Selvanayagam, Dean-Research Loyola - ICAM College of Engineering &amp; Technology and the measures proposed are being implemented during the project phase.</p>
20.	The activity of the unit is no way should disturb the Wild life habitat, free migratory movement of the wildlife nor disturb the Wildlife in any way.	<p><b>Noted for Compliance.</b></p> <p>There is no forest area or bird migratory pathway in the project area.</p>
21.	The natural drainage pattern in the project area shall be maintained	<b>Noted for Compliance.</b>



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	and storm water drain along the boundary and appropriate places shall be considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.	Storm water drains have been constructed across the entire plant area. The same has been channelized to a Rainwater harvesting pond.  Further, the runoff from the paved and unpaved roads have been connected to a storm water drain and routed to a Rainwater harvesting pond.
22.	The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/Hon'ble High Court of Madras.	<b>Noted.</b>
<b>(B)</b>	<b>General Conditions</b>	
I.	The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.	<b>Noted.</b>
II.	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, TN.	<b>Noted.</b>
III.	'Consent for Establishment' shall be obtained from the Tamil Nadu pollution Control Board and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.	<b>Complied.</b>  Consent for Establishment under Air & Water Act had been obtained from the Tamil Nadu Pollution Control Board vide Order No 2201245092256 and 2201145092256, dated 27/06/2022. The copy of CTE sent to SEIAA with 1 <sup>st</sup> six-monthly EC compliance report period from 18th June 2022 to 31st March 2023.
IV.	Greenbelt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total	<b>Noted and Being complied with.</b>  Thick cover of green belt constituting 33% of the total plant area shall be developed phase wise within five



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	land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80%.	years, consisting of native species covering 75 m width with a density not less than 2500 per ha.  Dedicated team for proper care, including regular trimming & pruning of plants and watering, are being carried out to achieve a survival rate of more than 80%.
V.	Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.	<b>Being Complied with.</b>  Good housekeeping will be maintained. Dedicated storage space will be provided for storing of all Raw materials, Fuel and Products. Waste generated from the activity shall be segregated and stored in a designated place and sold to the authorized recyclers.
VI.	The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC, Regional Office at Chennai within six months.	<b>Noted and being complied with.</b>  All the roof top collected rainwater have been connected and stored in a pond which will be utilized in the process.  Further, the run off from the paved and unpaved roads have been connected to a storm water drain and routed to a Rain water harvesting pond. The proposal feasibility is being studied through experts.  The action plan and implementation report will be updated in the six-monthly report.
VII.	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	<b>Noted for Compliance.</b>  Through CSR, focusing on Soil & Water conservation, Livelihood development, medical facilities, etc., as per the requirements of the villagers, drinking water facilities are being established.
VIII.	CSR schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the	<b>Noted and Being complied with.</b>



S. No	Conditions	Compliance status
	villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration.	Through CSR, focusing on Soil & Water conservation, Livelihood development and medical facilities etc.
IX.	Public grievances received against the establishment of the proposed project shall be addressed immediately.	<b>Noted.</b> As of now there is no public grievances received during establishment
X.	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	<b>Noted for Compliance.</b> Monitoring mechanism are in place for schemes identification to nearby by community and the same is being reviewed by CSR corporate head and Unit head on monthly basis. Annual social audit shall be carried out and the implementation report will be updated in the half yearly compliance report.
XI.	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Organization.	<b>Complied.</b> A full fledge separate environmental cell is in place with an environment professional under the direct supervision of Unit Head. Also, we have formed department wise SPOC's persons to monitor the Environmental aspects/impacts for taking effective corrective measures through Environment Management programme (EMP).
XII.	All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.	<b>Noted and being complied with.</b> Pre-employment occupational health checkup has been conducted for employees and Periodical health checkup of workers is being conducted and ensured as per the Factories Act and records are maintained.
XIII.	The project proponent shall also comply with all the environmental protection measures and	<b>Noted for Compliance.</b>

G. Mahesh



S. No	Conditions	Compliance status
	safeguards recommended in the EIA / EMP report.	
XIV.	The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.	<b>Noted for Compliance.</b> Different types of Skill development training is being organized in nearby villages by recognized institute/ competent person with the goal of helping residents improve the skills and livelihood. Also, through CSR, focusing on Soil & Water conservation, medical camps including for animals based on the need. Safe drinking water facilities are also being established.
XV.	The amount earmarked towards capital cost and recurring cost/annum shall be used for environmental pollution control measures and judiciously used to implement the conditions stipulated by the SEIAA, TN as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Chennai. The funds so provided shall not be diverted for any other purpose.	<b>Being Complied with.</b> As of now Capital cost invested for the pollution control measures is INR 7.64 crore.  Every year, for environmental protection budget is allotted and will be spent wisely spent. Also, additional funds are being allocated separately for implementing the conditions stipulated by MoEF & PCB from time to time.  The funds provided for environmental pollution control measures is not be diverted for other purpose.
XVI.	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Regional office of the MOEF&CC at Chennai, TNPCB and CPCB within 3 months of issue of Environment Clearances.	<b>Complied.</b> A risk assessment study and disaster preparedness and management plan along with the mitigation measures have been provided in the EIA/EMP report, and submitted to SEIAA, Tamil Nadu, during appraisal for EC and have also been submitted to TNPCB.
XVII.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of clearance letter are available with the TNPCB and may also be seen	<b>Complied.</b> A public notice informing about grant of EC has been published in two newspapers named "Indian Express" of Madurai edition and "Daily THANTHI" on 19 <sup>th</sup> June 2022 in English as well as in vernacular language





S. No	Conditions	Compliance status
	at Website of the SEIAA, TN at <a href="http://seiaa.tn.gov.in">http://seiaa.tn.gov.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office of the MoEF&CC at Chennai.	i.e. Tamil respectively. Copy of Advertisements sent with 1 <sup>st</sup> six-monthly EC compliance report period from 18th June 2022 to 31st March 2023
XVIII.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, Chennai, the Zonal Office CPCB Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.	<p><b>Noted and being complied.</b></p> <p>The hard copy of six-monthly EC compliance report along with monitoring report are being sent to Regional Office of MoEF&amp;CC, Chennai, the Zonal Office CPCB Bengaluru and the TNPCB both in Hard copies via postal and Soft copy via mail.</p> <p>Copy of EC and half yearly compliance report will be uploaded in the company website. i.e., <a href="https://www.dalmiacement.com/sustainability/">https://www.dalmiacement.com/sustainability/</a>.</p>
XIX.	The Environmental Statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated has to be submitted by the project proponent to the Tamil Nadu pollution Control Board as prescribed under the Environment (protection) Rules, 1986, as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Chennai by e-mail.	<p><b>Noted.</b></p> <p>Plant has been commenced on 14<sup>th</sup> Aug 2023 the Environmental Statement from date of commencement to 31<sup>st</sup> March 2024 and onward will be submitted to TNPCB and MoEF&amp;CC, Chennai within the stipulated time.</p>

G. Mahalingam



S. No	Conditions	Compliance status
XX.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<b>Complied.</b> Copy of EC and half yearly compliance report will be uploaded in the company website. i.e., <a href="https://www.dalmiacement.com/sustainability/">https://www.dalmiacement.com/sustainability/</a> . The online monitoring data has been connected to the CARE AIR, TNPCB and to CPCB server. Also, manual monitoring report is being carried out through NABL accredited labs and its report is being submitted with half yearly compliance to MoEF regional office & TNPCB. The real time data is displayed at the main gate.
XXI.	A copy of the clearance letter shall be sent by the proponent to the local body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	<b>Noted for Compliance.</b> Environmental clearance has been uploaded on company's website i.e. <a href="https://www.dalmiacement.com/sustainability/">https://www.dalmiacement.com/sustainability/</a> . The copy of EC has been sent to local body and the acknowledgement has been enclosed in 1st six-monthly EC compliance report period from 18th June 2022 to 31st March 2023
XXII.	Project authorities shall inform the MoEF&CC Regional Office at Chennai as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	<b>Noted for Compliance.</b> The land developmental work started on 28.06.2022. Financial closure date will be informed to MoEF&CC Regional Office, Chennai as well as the SEIAA, TN as and when done.
XXIII.	Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the	<b>Noted.</b>



G. Mohan

S. No	Conditions	Compliance status
	Ministry/CPCB/ SPCB who would be monitoring the compliance of environmental status.	
XXIV.	The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose additional environmental conditions or modify the existing ones, if necessary.	<b>Noted.</b>
XXV.	Environmental Clearance is issued based on the details furnished as above. Concealing factual data o. submission of false/fabricated data and 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.	<b>Noted.</b>
XXVI.	The SEIAA, TN reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	<b>Noted.</b>
XXVII.	The above stipulations would be enforced, inter-alia under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and its amendments, the Public Liability	<b>Noted.</b>

F. Mahesh



S. No	Conditions	Compliance status
	Insurance Act. 1991 and its amendments.	
XXVIII.	Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<b>Noted.</b>

Dr. Maheshwari





# MONARCH NUCLEAR COUNTING LABORATORY

A UNIT OF MONARCH BIOTECH PRIVATE LIMITED

## TEST REPORT

ORIGINAL

### RADIOACTIVITY MEASUREMENT / TEST REPORT

Test Report. No. MB / NCL / Original / 33275 / 2024-2025

Date: 16 / 04 / 2024

Sample identification : 33275  
 \* Sample received from : DALMIA BHARAT GREEN VISION LIMITED  
 UNIT: MEENAKSHI CEMENT WORKS  
 P.NO. 66/3A, 3B, UPATHAR MAIN ROAD MULLISEVAL, NALLI  
 RAILWAY STATION, SATTUR TALUK,  
 DIST: VIRUDHUNAGAR TAMIL NADU - 626205  
 \* Nature of sample : GYPSUM POWDER  
 Laboratory Sample No : 2403133  
 Volume / weight : 1 kg  
 Sample received on : 14 / 03 / 2024  
 Testing completed on : 15 / 04 / 2024

S.No	Nuclides Analyzed	Activity Determination Limit Of Instrument MDA ( $3\sigma$ )	Method of Testing	Result (Bq / kg)	Exemption levels as AERB Directive No.01/09 2009
1.	Ra-226	11.92 Bq/kg	AERB - Standard Analytical method (Clause 4.3.4 : 2003)	BDL	1000 Bq/kg

BDL: 1.Below Detectable Level, MDA: Minimum Detectable Activity & Bq: Becquerel

2.\*This information was provided by customer

Remarks: The above sample was analyzed for the radioactivity content. This is to certify that the activity level of Ra-226 in the sample was found to be below the Atomic Energy Regulatory Board Directive No. 01/09- Use of Phosphogypsum in Building & Construction Materials & in Agriculture (Ref. No. CH/AERB/IPSD/78/2009 dated March 19, 2009).

#### Terms and Conditions

This report in full or in part shall not be published, advertised and used for any legal action, unless prior permission has been secured. This test report pertains only for the sample tested and such samples are retained for 7 days (in case of perishable) and 30 days for all other samples. The samples from regulatory bodies will be retained as specified, if there is any discrepancy / complaint received from the customer within 30 days from the date of report, the sample will be kept for further 30 days. The sample will be disposed of or returned on request after the retention period. The total liability of this laboratory is limited to the invoice amount. Sample not drawn by laboratory unless stated.

#### Customer Name & Address:-

M/s. DALMIA BHARAT GREEN VISION LIMITED  
 UNIT: MEENAKSHI CEMENT WORKS  
 P.NO. 66/3A, 3B, UPATHAR MAIN ROAD MULLISEVAL,  
 NALLI RAILWAY STATION, SATTUR TALUK,  
 DIST: VIRUDHUNAGAR TAMIL NADU - 626205.



Dr. G. SANKARAN PILLAI,  
 Technical Manager - Radiological,  
 Authorized Signatory.

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

Page 1 of 1



Regd. Office & Sample Collection Centre : New No. 17/1, Sadullah Street, T. Nagar, Chennai - 600 017 Tamilnadu, INDIA  
 Phone : 044 - 2681 0052 / 2431 2759 Email: monarchbio@gmail.com / info@monarchtestinglab.com; website: www.monarchtestinglab.com  
 LAB : 37-A, SIDCO Industrial Estate, Thirumazhisai, Chennai 600 124, Tamilnadu, INDIA. Ph: 91-44- 2681 0052



**MONARCH NUCLEAR COUNTING LABORATORY**  
A UNIT OF MONARCH BIOTECH PRIVATE LIMITED



Accredited by AERB & NABL, (Wide Certificate No: TC-6206) Recognized By BIS & Notified by FSSAI

**TEST REPORT**

ORIGINAL

**RADIOACTIVITY MEASUREMENT / TEST REPORT**

ULR-TC620624000025003F

Date: 16 / 04 / 2024

Discipline: Radiological

Group: Environment (Radioactive Contaminants)

Test Report No: MBT / RL / 33275 / 2024-2025

Sample identification : 33275  
\* Sample received from : DALMIA BHARAT GREEN VISION LIMITED  
UNIT: MEENAKSHI CEMENT WORKS  
P.NO. 66/3A, 3B, UPATHAR MAIN ROAD MULLISEVAL, NALLI  
RAILWAY STATION, SATTUR TALUK,  
DIST: VIRUDHUNAGAR TAMIL NADU - 626205  
\* Nature of sample : GYPSUM POWDER  
Laboratory Sample No : 2403133  
Volume / weight : 1 kg  
Sample received on : 14 / 03 / 2024  
Testing completed on : 15 / 04 / 2024

S.No	Nuclides Analyzed	Activity Determination Limit Of Instrument MDA (3σ)	Method of Testing	Result (Bq / kg)	Exemption levels as AERB Directive No.01/09 2009
1.	U - 238	9.21 Bq/kg	AERB – Standard Analytical method (Clause 4.3.4 : 2003)	BDL	1000 Bq/kg

BDL: 1.Below Detectable Level, MDA: Minimum Detectable Activity & Bq: Becquerel

2.\*This information was provided by customer

**Remarks:** The above sample was analyzed for the radioactivity content. This is to certify that the activity level of U-238 in the sample was found to be below the Atomic Energy Regulatory Board Directive No. 01/09- Use of Phosphogypsum in Building & Construction Materials & in Agriculture (Ref. No. CH/AERB/IPSD/78/2009 dated March 19, 2009).

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This report in full or in part shall not be published, advertised and used for any legal action, unless prior permission has been secured. This test report pertains only for the sample tested and such samples are retained for 7 days (in case of perishable) and 30 days for all other samples. The samples from regulatory bodies will be retained as specified, if there is any discrepancy / complaint received from the customer within 30 days from the date of report, the sample will be kept for further 30 days. The sample will be disposed of or returned on request after the retention period. The total liability of this laboratory is limited to the invoice amount. Sample not drawn by laboratory unless stated.

**Customer Name & Address:-**

M/s. DALMIA BHARAT GREEN VISION LIMITED  
UNIT: MEENAKSHI CEMENT WORKS  
P.NO. 66/3A, 3B, UPATHAR MAIN ROAD MULLISEVAL,  
NALLI RAILWAY STATION, SATTUR TALUK,  
DIST: VIRUDHUNAGAR TAMIL NADU - 626205.



**Dr. G. SANKARAN PILLAI,**  
Technical Manager – Radiological,  
Authorized Signatory.



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

Page 1 of 1

Regd. Office & Sample Collection Centre : New No. 17/1, Sadullah Street, T. Nagar, Chennai - 600 017 Tamilnadu, INDIA  
Phone : 044 - 2681 0052 / 2431 2759 Email: monarchbio@gmail.com / info@monarchtestinglab.com; website: www.monarchtestinglab.com  
LAB : 37-A, SIDCO Industrial Estate, Thirumazhisai, Chennai 600 124, Tamilnadu, INDIA. Ph: 91- 44- 2681 0052

## Dalmia Cement (Bharat) Limited

Pre-employment Medical Examination Record of Shri. \_\_\_\_\_

**CLINICAL EXAMINATION FINDINGS:**  
 Height 169 Cms. Weight 66 Kg. BMI: 23.1 Built: average/strong/roor  
 Abd. Girth: 88 cm Chest Inspiration 90 Cms, Expiration 85 Cms  
**CARDIO - VASCULAR SYSTEM** Pulse: 88/min, regular/irregular Blood Pressure: 120/80  
 Heart Sounds: S<sub>1</sub>S<sub>2</sub> Murmur: no

**GENITO-URINARY SYSTEM** Hernia: no Hydrocoele: no  
 Phimosis: no Crypto-orchidism: no  
 Any feature of STD: no

**EXAMINATION OF EYES: -**

	Far Vision		Near Vision	
	Right	Left	Right	Left
Without Glass	<u>6/6</u>	<u>6/6</u>	<u>6/6</u>	<u>6/6</u>
With Glass	<u>.</u>			
Colour Vision	<u>normal</u>			
Remarks:				

**Examination of Ear, Nose and Throat**  
 Tonsils: no  
 Ear Canal: normal Tympanic Membrane: normal  
 Whispered voice: no Any discharge: no  
**LOCOMOTOR SYSTEM** Gait: normal spine: normal Any abnormality: no

**INVESTIGATION REPORT -** (Report enclosed)

- I. CBC
- II. Blood sugar F/PP/R 118 mg/dl.
- III. Blood Group
- IV. Lipid profile
- V. Renal Function
- VI. Liver Function
- VII. Urine R/M
- VIII. X-Ray Chest
- IX. ECG
- X. PFT (Spirometry) (N)
- XI. Audiometry (N)
- XII. Any Other Investigation Required: \_\_\_\_\_



# Dalmia Cement (Bharat) Limited

OCCUPATIONAL HISTORY (in chronological order –starting from present):

Sl. No	Name of Organization	Type of work Office work/ Field work/Mixed	Exposure Noise/Gas/ Chemical/ Computer/Dust etc.	Duration (in years)
	Local (mason)	Field work	Dust	10 yrs.

I, hereby, declare that the above statement and information are correct to the best of my knowledge. I fully understand that any statement made above (page 1 & 2), if found incorrect or false will render me to

Signature of the candidate

Date: 16/1/24.

Signature of the Doctor with seal

Date:

Dr. KARTHIKEYAN G MBBS..AFIH.,  
REG NO : 94677 AFIH REG NO : 03511  
FACTORY MEDICAL OFFICER  
DALMIA CEMENT (BHARAT) GREEN VISION LTD  
MEENAKSHI CEMENT WORKS, SATTUR.



# Dalmia Cement (Bharat) Limited

## Pre-employment Medical Examination Format- (ANNEXURE- D):

Name	Date of Joining: 16/4/24.	Employee Code:	
Age/S	Date of Birth	Department:	
Designation	Mobile No:	Source:	SRC
Marital Status: Yes	Children: 1	Male: x	Female: 1
Mark of Identification: 1: A black mole on face. 2: A black mole on left hand.			
<b>PERSONAL HISTORY:</b> Diet: Veg/non-veg ✓		Tobacco chewing: Yes/No ✓	
Smoking: Yes/No ✓		Alcohol: Yes/No ✓	
Any Medication: N/A		Details of Medications (if any):	
History (Self /Family) (To be filled, in consultation with the candidate)			

Sl. No	Disease	Yes	No	Relation
1.	Diabetes		✓	
2.	Hypertension		✓	
3.	Heart Disease		✓	
4.	Stroke/Paralysis		✓	
5.	Epilepsy/Seizure disorder		✓	
6.	Jaundice		✓	
7.	Tuberculosis		✓	
8.	Cancer		✓	
9.	Leprosy		✓	
10.	Shortness of Breath/Asthma		✓	
11.	Peptic ulcer		✓	
12.	Mental Disorder		✓	
13.	Vertigo / Height Phobia		✓	
14.	Arthritis/ gout		✓	
15.	Chronic Backache		✓	
16.	Chronic dysentery		✓	
17.	Kidney/Urinary ailment		✓	
18.	Recurrent ear, nose, throat problem		✓	
19.	Any Allergy		✓	
20.	Any surgery		✓	
21.	Recurrent headache or eye problem		✓	
22.	Thyroid Dysfunction		✓	
23.	Any Accident:		✓	
24.	Declared UNFIT in any examination:		✓	

**DALMIA BHARAT GREEN VISION LTD**  
**MEENAKSHI CEMENT WORKS**

Name :  
C R No

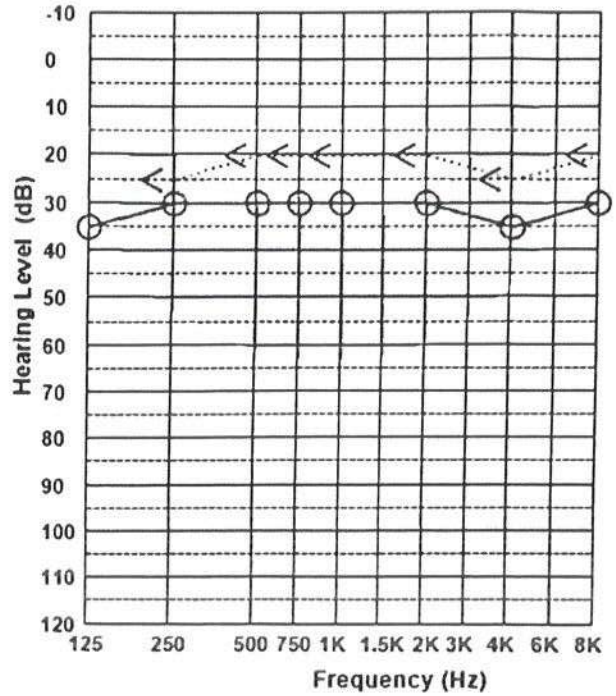
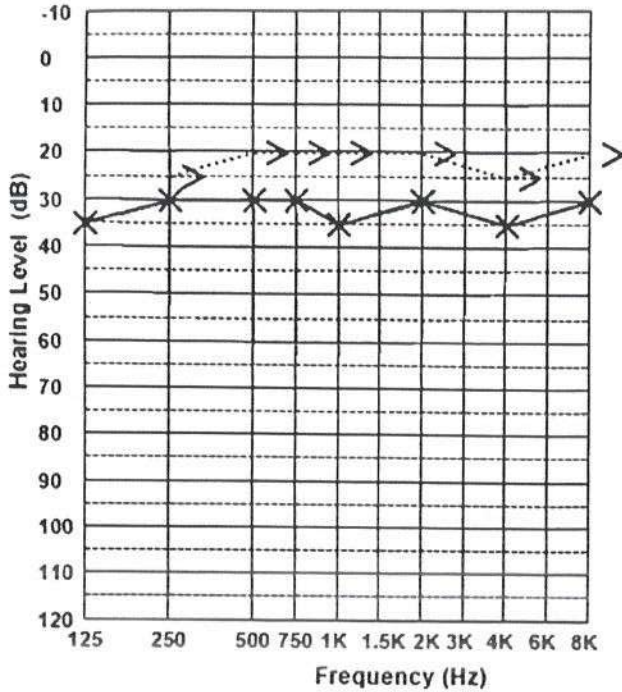
DOB  
Audio

Male Date : 16-04-2024 13:13:27

**PURE TONE TEST**

LEFT EAR

RIGHT EAR



Freq.	125	250	500	750	1000	1.5K	2K	3K	4K	6K	8K
<b>R</b>	35	30	30	30	30		30		35		30
R(M)											
BCR		25	20	20	20		20		25		20

PTA (R) = 30dB      PTA-M(R) =      PTA-BCM(R) = (500,1K,2K)

Freq.	125	250	500	750	1000	1.5K	2K	3K	4K	6K	8K
<b>L</b>	35	30	30	30	35		30		35		30
L(M)											
BCL		25	20	20	20		20		25		20

PTA (L) = 31dB      PTA-M (L) =      PTA-BCM(L) = (500,1K,2K)

Legend	R	L
Air	○	×
Air/Masked	△	□
Bone	<	>
Bone/Masked	[	]
MCL	M	M
UCL	∩	∩
Free Field	∅	⊗
FF/Prothesis	A	A
Binaural		S
No Response		↓

AUDIOLOGICAL DIAGNOSIS

*G. K. R.*  
AUDIOLOGIST

**Dr. KARTHIKEYAN G MBBS..AFIH.,**  
REG NO : 94677 AFIH REG NO : 03511  
FACTORY MEDICAL OFFICER  
DALMIA CEMENT (BHARAT) GREEN VISION LTD  
MEENAKSHI CEMENT WORKS, SATTUR.

**DALMIA BHARATH GREEN VISION LIMITED**  
**UNIT-MEENKASHI CEMENT WORKS**  
**SATTUR**

**Patient Inform**

Name  
 ID  
 Age 31)  
 Height  
 Weight  
 Sex at Birth  
 Ethnicity

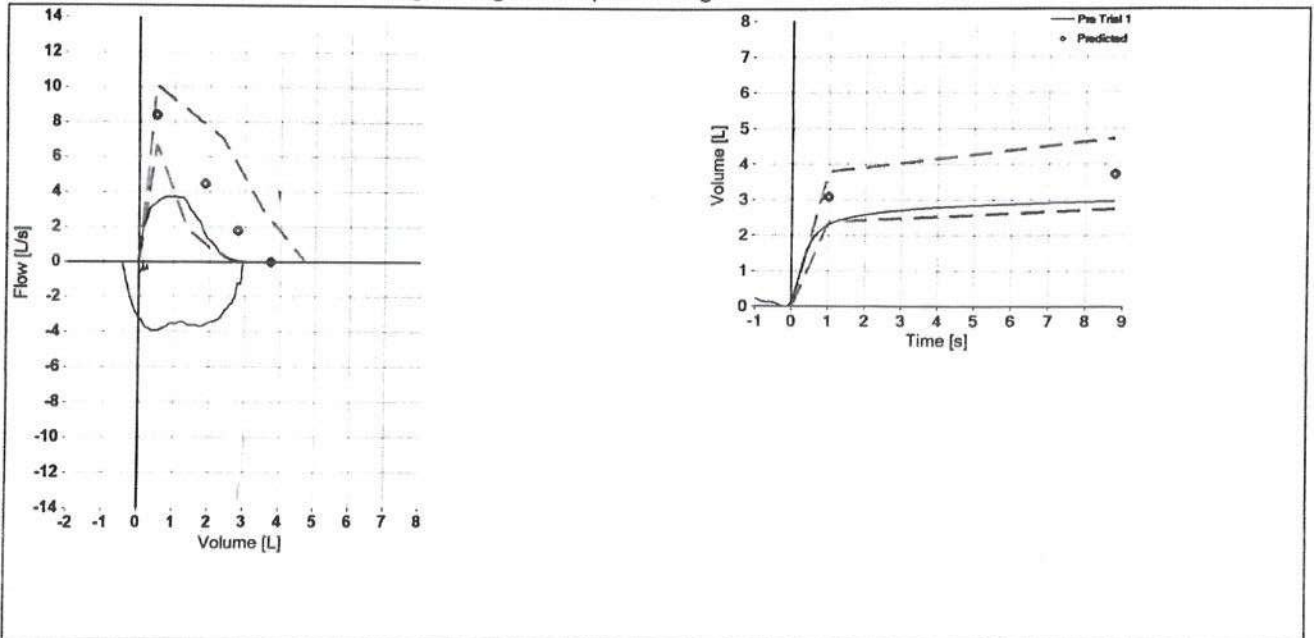
**FVL (ex/in)**

Asthma --  
 Smoker --  
 Test Type FVL (ex/in)  
 Test Date 16-04-2024 13:07:32  
 Post Time  
 Interpretation GOLD(2008)/Hardie  
 Predicted Knudson, 1983 \* 0.88  
 Physician

Parameter	Pred	LLN	Pre	
			Best Z-Score	
FVC [L]	3.72	2.73	<b>2.95</b>	-1.28
FEV1 [L]	3.08	2.37	<b>2.29*</b>	-1.86
FEV1/FVC [%]	82.2	71.4	<b>77.4</b>	-0.72
FEF25-75 [L/s]	3.74	1.51	<b>2.15</b>	-1.17
PEF [L/s]	8.42	-	<b>3.73</b>	-
FET [s]	-	-	<b>8.8</b>	-
FIVC [L]	3.72	2.73	<b>3.39</b>	-0.55
PIF [L/s]	-	-	<b>3.95</b>	-

System Interpretation Pre Normal Spirometry

\* Indicates value outside normal range or significant post change.



*G. K. T.*

**Physician Signature**

**Dr. KARTHIKEYAN G MBBS..AFIH.,**  
 REG NO : 94577 AFIH REG NO : 03511  
 FACTORY MEDICAL OFFICER  
 DALMIA CEMENT (BHARAT) GREEN VISION LTD,  
 MEENAKSHI CEMENT WORKS, SATTUR.



Examined by: Dr .SENTHILKUMAR S

Package : DALMIA PACKAGE FOR BELOW 40 MALE



**CHIEF COMPLAINTS**

No specific complaints

**PRESENT KNOWN ILLNESS**

No history of - Diabetes mellitus,  
 Hypertension,  
 Dyslipidemia, Thyroid  
 disorder, Heart disease,  
 Stroke, Asthma, COPD,  
 Cancer, Impaired Glycemia



**SYSTEMIC REVIEW**

**Cardiovascular system**

- Nil Significant

**Respiratory system**

- Nil Significant

**Gastrointestinal system**

- Nil Significant

**Genitourinary system**

- Nil Significant

**Central nervous system**

- Nil Significant

**General symptoms**

- Nil Significant



**Personal history**

Diet - Mixed Diet  
 Alcohol - does not consume alcohol  
 Smoking - No  
 Chews tobacco - No  
 Physical activity - Mild



**Family history**

Coronary artery disease - father

Cancer - None

**PHYSICAL EXAMINATION**



**General**

General appearance - normal  
 Build - moderate  
 Height - 175  
 Weight - 71.1  
 BMI - 23.22  
 Pallor - No  
 Oedema - no



**Cardiovascular system**

Heart rate (Per minute) - 73  
 Rhythm - Regular  
 - B.P. Sitting  
 Systolic(mm of Hg) - 100  
 Diastolic(mm of Hg) - 70  
 Heart sounds - S1S2+

**Respiratory system**

Breath sounds - Normal vesicular breath sounds



**Abdomen**

Organomegaly - No  
 Tenderness - No

**Surgical**

Surgical exam done by - Dr.JAGADEESAPANDIAN P  
 Hernia - nil  
 Scrotum and testis - Normal  
 Penis - Normal  
 Anal and rectal examination - not done  
 Surgical findings - Normal

Printed By : Sasikala T



AI  
1070

RY  
14  
12

**HEMOGRAM**

Test Name	Result	Unit	Level	Range
Hemoglobin	14.3	gm%	●	13.0-18.0
Packed cell volume(Calculated)	43	%	●	40-54
WBC Count	7.3	10 <sup>9</sup> /m <sup>3</sup>	●	4-11
Platelet Count	272	10 <sup>9</sup> /m <sup>3</sup>	●	150-450
ERYTHROCYTE SEDIMENTATION RATE (ESR)	07	mm/1st hr	●	0-15
RBC Count	5.12	Million/ul	●	4.2-6.5
MCV	83	fl	●	75-95
MCH(Calculated)	28	pg	●	26-32
MCHC(Calculated)	34	g/dl	●	31-36
Neutrophils	50	%	●	40-80
Lymphocytes	38	%	●	20-40
Eosinophils	05	%	●	01-06
Monocytes	07	%	●	2-10

Test Name	Result	Unit	Level	Range
Blood Group	B			
Rh (D) Type:	POSITIVE			

**ALT(SGPT) - SERUM / PLASMA**

Test Name	Result	Unit	Level	Range
ALT(SGPT)	50 *	U/L	●	Adult Male : < 45

**AST (SGOT) - SERUM**

Test Name	Result	Unit	Level	Range
AST (SGOT)	33	U/L	●	Adult Male: <35

**BILIRUBIN, TOTAL - SERUM**

Test Name	Result	Unit	Level	Range
Bilirubin, Total - Serum	0.4	mg/dL	●	NORMAL : 0.2 TO 1.1

**LIPID PROFILE TEST (PACKAGE)**

Test Name	Result	Unit	Level	Range
Total Cholesterol	194	mg/dL	●	Adult Desirable: <200 Borderline High: 200 - 239 High: >=240

**URINE ROUTINE (CUE)**

Test Name	Result	Unit	Level	Range
Specific Gravity	1.020		●	1.001 - 1.035
Colour:	Straw Yellow			Straw Yellow
Transparency:	Clear			Clear
pH	6		●	4.6-8.00
Protein :	Nil			NIL
Sugar :-	Nil			NIL
Ketone	Negative			NEGATIVE
Bile Pigments :-	Negative			NEGATIVE
Bile Salts :-	Absent			ABSENT
Urobilinogen	Normal	E.U./dL		Normal
RBC	Nil	/hpf		<2
Pus Cells	1-2	/hpf		Male : 2 - 3 Female : 2 - 5
Epithelial Cells	Occasional	/hpf		3 - 5

**CREATININE - SERUM / PLASMA**

Test Name	Result	Unit	Level	Range
Creatinine - Serum	1.0	mg/dL	●	Male: 0.9 - 1.3

**GLUCOSE - SERUM / PLASMA (FASTING)**

Test Name	Result	Unit	Level	Range
Glucose - Serum / Plasma (Fasting)	90	mg/dL	●	60-99

**GLUCOSE - SERUM / PLASMA (POST PRANDIAL)**

Test Name	Result	Unit	Level	Range
Glucose - Serum / Plasma (Post Prandial)	110	mg/dL	●	< 140 Increase risk of diabetes(Impaired Glucose tolerance):140-199; Diabetic>=200

**BLOOD GROUPING AND TYPING (ABO and Rh)**

**LIPID PROFILE TEST (PACKAGE)**

● Within Normal Range    ● Borderline High/Low    ● Out of Range



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Test Name	Result	Unit	Level	Range	Test Name	Result	Unit	Level	Range
HDL Cholesterol	32 *	mg/dL	●	Low: <40 High: >=60	VITAMIN D - TOTAL	15 *	ng/mL	●	< 20 Deficiency 21-29 Insufficiency > 30 Normal
LDL Cholesterol (Direct LDL)	122	mg/dL	●	Optimal: <100 Near/above optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: >=190					

Total Cholesterol / HDL Cholesterol Ratio (Calculated) 6.1 \* ● < 4.5

**TSH: THYROID STIMULATING HORMONE - SERUM**

Test Name	Result	Unit	Level	Range
TSH: Thyroid Stimulating Hormone	2.04	µIU/mL	●	0.35 - 5.50

**PROSTATIC SPECIFIC ANTIGEN (PSA TOTAL) - SERUM**

Test Name	Result	Unit	Level	Range
Prostatic Specific Antigen (PSA Total)	1.0	ng/mL	●	Healthy Men: <= 4.0 Males: 40-49 yrs: 0 - 2.5 50-59 yrs: 0 - 3.5 60-69 yrs: 0 - 4.5 70-79 Yrs: 0 - 6.5

**UREA - SERUM / PLASMA**

Test Name	Result	Unit	Level	Range
Urea	29	mg/dL	●	Adult: 13 - 43

**LIPID PROFILE TEST (PACKAGE)**

Test Name	Result	Unit	Level	Range
VLDL CHOLESTEROL - SERUM	16		●	Desirable:<30
Triglycerides - Serum	80	mg/dL	●	Normal: <150 High: 150 - 199 Hypertriglyceridemic: 200 - 499 Very High: >=500

**X-RAY CHEST PA**

NO SIGNIFICANT ABNORMALITY IS DETECTED.

**ULTRASOUND SCREENING WHOLE ABDOMEN**

**ELECTROLYTES-SERUM/PLASMA (Na K Cl HCO3)**

Test Name	Result	Unit	Level	Range
Sodium - Serum / Plasma	142	mEq/L	●	Adult: 136 - 145
Potassium - serum / Plasma	4.3	mEq/L	●	Adults(Serum): 3.5 - 5.1 (Plasma) Male: 3.5 - 4.5 (Plasma) Female: 3.4 - 4.4
Chloride - Serum / Plasma	103	mEq/L	●	Adult: 98 - 107

**VITAMIN D TOTAL(250H vitD3 and 250H vitD2)**

● Within Normal Range    ● Borderline High/Low    ● Out of Range



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Liver shows normal in size and shows increased echopattern with no evidence of focal lesion.

The intra or extra hepatic biliary radicles are not dilated.

Gall bladder is distended with no evidence of calculus. Wall thickness appears normal.

Pancreas and spleen appear normal.

No evidence of ascites.

Right kidney measures 10.8 x 4.6 cm.

Left kidney measures 10.9 x5.0 cm.

Both kidneys show normal echopattern with no evidence of calculi or calyceal dilatation.

Bladder shows normal contour.

Prostate shows normal echopattern

**IMPRESSION:**

**CLINICAL INDICATION: MASTER HEALTH CHECKUP.**

**ULTRASOUND SCREENING WHOLE ABDOMEN STUDY DONE ON 10.05.2024 SHOWS,**

- Fatty infiltration of fatty liver(Grade III).

REPORTED BY,  
DR. A. PANDIAN, MBBS., DMRD.,  
CONSULTANT RADIOLOGIST.

**PULMONARY FUNCTION TEST**

Restriction probable.

**CARDIOLOGY**

ECG

**Neurology**

PURE TONE AUDIOMETRY



● Within Normal Range      ● Borderline High/Low      ● Out of Range



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### Executive Summary


 Physical Examination and routine Investigation in AHC Package reveals the following:  
 - No significant medical abnormalities detected.

### Wellness Prescription


#### Advice On Diet :-

 - Healthy Diet

#### Advice On Physical Activity :-

 - Regular walking

Printed By : Apamadevi S

  
Dr. SENTHILKUMAR S

AHC Physician / Consultant Internal Medicine



**Note :-** The Health Check-up examinations and routine investigations have certain limitations and may not be able to detect all the diseases. Any new or persisting symptoms should be brought to the attention of the Consulting Physician. Additional tests, consultations and follow up may be required in some cases.



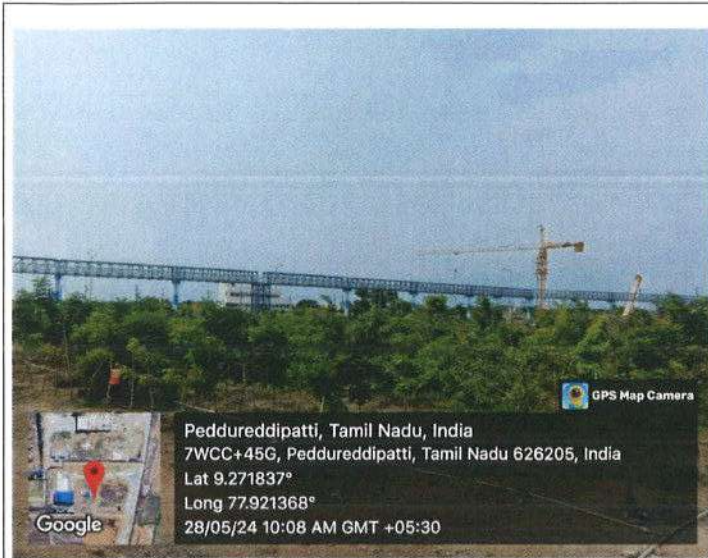
# Dalmia Bharat Green Vision Limited

Unit: Meenakshi Cement Work

Mulliseval Village, Sattur Taluk, Virudhunagar District, Tamil Nadu. Pin code – 626205

## Green Belt Development

Currently, 4,500 saplings have been planted across the boundary as per recommendation of DFO viz Puliyamaram, Atthimaram, Tekku, Vembu, Pungam, Senjsanathanam, Savukku, Poovarasu. Aavi, Sengkondrai, Manchalkondrai, Naval, Vaadham, and Mahakni, Further, planned to plant varieties of Plants inside the premises in this year.



G. Mahalingam




*S. Mahalingam*





# GLens Innovation Labs Pvt Ltd.

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## TEST REPORT

Report No.: EN23121063

ULR NO: TC858223000009785F

Name of the Client : Dalmia Bharath Green Vision Ltd  
 Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
 : Mulliseval, Nalli Railway Station, Sattur Taluk, Virudunagar Dist-626205  
 Sample Name : Ambient Air Quality Sampling From : 26-Dec-2023 12:20 PM  
 Sample Description : Ambient Air Quality Sampling To : 27-Dec-2023 12:20 PM  
 Sampling Location : Near Batching Plant Received Date : 29-Dec-2023  
 Sample Submission Type : Collected by Lab Representative Commenced On : 29-Dec-2023  
 Sample Condition : Good Completed On : 09-Jan-2024  
 Humidity : 64% Report Date : 17-Jan-2024  
 Temperature : 33°C Sampling Plan and Method : IS 5182 Part V & XIV



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	14.1	IS 5182 (Part 2): 2017	Max 80
2	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	26.1	IS 5182 (Part 6): 2006	Max 80
3	Particulate Matter (PM10)	µg/m <sup>3</sup>	56.2	IS 5182 (Part 23): 2006	Max 100
4	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	29.8	GL/EN/SOP/062	Max 60
5	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	Max 80
6	Lead as Pb	µg/m <sup>3</sup>	BLQ(LOQ : 0.002)	IS 5182 (Part 22): 2014	Max 1.0
7	Carbon Monoxide as CO	mg/m <sup>3</sup>	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	Max 4.0
8	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	GL/EN/SOP/057	Max 400
9	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m <sup>3</sup>	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

#### Remarks

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

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

Verified By

Authorized Signature  
 E. PRITHIVIRAJAN  
 LAB MANAGER

#### Terms and Conditions:

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- \* The test report shall not be reproduced in full or part without the written approval of Glens.
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## TEST REPORT

Report No: EN23121061

ULR NO: TC858223000009783F

Name of the Client : Dalmia Bharath Green Vision Ltd  
Address of the Client : Meevakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
Mulliseval, Nalli Railway Station, Sattur Taluk, Virudunagar Dist-626205  
Sample Name : Ambient Air Quality Sampling From : 26-Dec-2023 12:00 PM  
Sample Description : Ambient Air Quality Sampling To : 27-Dec-2023 12:00 PM  
Sampling Location : Clinker Silo Received Date : 29-Dec-2023  
Sample Submission Type : Collected by Lab Representative Commenced On : 29-Dec-2023  
Sample Condition : Good Completed On : 09-Jan-2024  
Humidity : 64% Report Date : 17-Jan-2024  
Temperature : 33°C Sampling Plan and Method : IS 5182 Part V & XIV



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	13.4	IS 5182 (Part 2): 2017	Max 80
2	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	21.7	IS 5182 (Part 6): 2006	Max 80
3	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	60.4	IS 5182 (Part 23): 2006	Max 100
4	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	28.2	GL/EN/SOP/062	Max 60
5	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	Max 80
6	Lead as Pb	µg/m <sup>3</sup>	BLQ(LOQ : 0.002)	IS 5182 (Part 22): 2014	Max 1.0
7	Carbon Monoxide as CO	mg/m <sup>3</sup>	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	Max 4.0
8	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	GL/EN/SOP/057	Max 400
9	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m <sup>3</sup>	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

#### Remarks

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

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

Verified By

Authorized Signature

E. PRITHIVIRAJAM  
LAB MANAGER

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## TEST REPORT

Report No.: EN24010468

ULR NO: TC858224000000341F

Name of the Client : Dalmia Bharath Green Vision Ltd  
Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
Mulliseval, Nalli Railway Station, Sattur Taluk, Virudunagar Dist-626205  
Sample Name : Ambient Air Quality Sampling From : 02-Jan-2024 05:00 AM  
Sample Description : Ambient Air Quality Sampling To : 03-Jan-2024 05:00 AM  
Sampling Location : Near WTP Received Date : 11-Jan-2024  
Sample Submission Type : Collected by Lab Representative Commenced On : 11-Jan-2024  
Sample Condition : Good Completed On : 20-Jan-2024  
Humidity : 68% Report Date : 20-Jan-2024  
Temperature : 30°C Sampling Plan and Method : IS 5182 Part V & XIV



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	12.6	IS 5182 (Part 2): 2017	Max 80
2	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	23.0	IS 5182 (Part 6): 2006	Max 80
3	Particulate Matter (PM10)	µg/m <sup>3</sup>	44.4	IS 5182 (Part 23): 2006	Max 100
4	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	15.4	GL/EN/SOP/062	Max 60
5	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	Max 80
6	Lead as Pb	µg/m <sup>3</sup>	BLQ(LOQ : 0.002)	IS 5182 (Part 22) :2014	Max 1.0
7	Carbon Monoxide as CO	mg/m <sup>3</sup>	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	Max 4.0
8	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	GL/EN/SOP/057	Max 400
9	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m <sup>3</sup>	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22) : 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

#### Remarks

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

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

Verified By

Authorized Signature

E. PRITHIVIRAJAN  
LAB MANAGER

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## TEST REPORT



Report No. : EN23121060

ULR NO:TC858223000009782F

Name of the Client : Dalmia Bharath Green Vision Ltd  
Address of the Client : Mccnakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
Mulliseval,Nalli Railway Station, Sattur Taluk, Virudunagar Dist-626205  
Sample Name : Ambient Air Quality Sampling From : 26-Dec-2023 11:50 AM  
Sample Description : Ambient Air Quality Sampling To : 27-Dec-2023 11:50 AM  
Sampling Location : Near WTP Received Date : 29-Dec-2023  
Sample Submission Type : Collected by Lab Representative Commenced On : 29-Dec-2023  
Sample Condition : Good Completed On : 09-Jan-2024  
Humidity : 64% Report Date : 17-Jan-2024  
Temperature : 33°C Sampling Plan and Method : IS 5182 Part V & XIV



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	15.1	IS 5182 (Part 2): 2017	Max 80
2	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	26.7	IS 5182 (Part 6): 2006	Max 80
3	Particulate Matter (PM10)	µg/m <sup>3</sup>	64.5	IS 5182 (Part 23): 2006	Max 100
4	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	25.2	GL/EN/SOP/062	Max 60
5	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	Max 80
6	Lead as Pb	µg/m <sup>3</sup>	BLQ(LOQ : 0.002)	IS 5182 (Part 22) :2014	Max 1.0
7	Carbon Monoxide as CO	mg/m <sup>3</sup>	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	Max 4.0
8	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	GL/EN/SOP/057	Max 400
9	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m <sup>3</sup>	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 ( Part 22) : 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

### Remarks

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

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

Verified By

Authorized Signature  
E. PRITHVIRAJAN  
LAB MANAGER

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## TEST REPORT

ULR NO:TC858223000009784F

Report No. : EN23121062

Name of the Client : Dalmia Bharath Green Vision Ltd  
Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
Mulliseval, Nalli Railway Station, Sattur Taluk, Virudunagar Dist-626205  
Sample Name : Ambient Air Quality Sampling From : 26-Dec-2023 12:10 PM  
Sample Description : Ambient Air Quality Sampling To : 27-Dec-2023 12:10 PM  
Sampling Location : Near Way Bridge Received Date : 29-Dec-2023  
Sample Submission Type : Collected by Lab Representative Commenced On : 29-Dec-2023  
Sample Condition : Good Completed On : 09-Jan-2024  
Humidity : 64% Report Date : 17-Jan-2024  
Temperature : 33°C Sampling Plan and Method : IS 5182 Part V & XIV



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	14.1	IS 5182 (Part 2): 2017	Max 80
2	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	23.3	IS 5182 (Part 6): 2006	Max 80
3	Particulate Matter (PM10)	µg/m <sup>3</sup>	58.3	IS 5182 (Part 23): 2006	Max 100
4	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	27.5	GL/EN/SOP/062	Max 60
5	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	IS 5182 (Part 9): 1974	Max 80
6	Lead as Pb	µg/m <sup>3</sup>	BLQ(LOQ : 0.002)	IS 5182 (Part 22) :2014	Max 1.0
7	Carbon Monoxide as CO	mg/m <sup>3</sup>	BLQ(LOQ : 1.14)	IS 5182 (Part 10): 1999	Max 4.0
8	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	BLQ(LOQ : 20)	GL/EN/SOP/057	Max 400
9	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BLQ(LOQ : 4.0)	GL/EN/SOP/08	NA
10	Benzo (a) Pyrene (Particulate Phase)	ng/m <sup>3</sup>	BLQ(LOQ : 0.03)	GL/EN-INS/SOP/009	NA
11	Arsenic as As	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22): 2014	NA
12	Nickel as Ni	ng/m <sup>3</sup>	BLQ(LOQ : 2.0)	IS 5182 (Part 22) : 2014	NA

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

#### Remarks

The above Sample complies as per NAAQS limit which is provided in the environmental protection Rule 3 (3B) Nov.2009, against the above tested parameter

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

Verified By

Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

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## TEST REPORT



ULR NO:TC858223000009787F

Report No. : EN23121065

Name of the Client : Dalmia Bharath Green Vision Ltd  
 Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
 : Mulliseval, Nalli Railway Station, Sattur Taluk, Virudunagar Dist-626205  
 Sample Name : Fugitive Emission Sampling Date : 29-Dec-2023  
 Sample Description : Fugitive Emission Received Date : 29-Dec-2023  
 Sampling Location : Near Additive Area Commenced On : 29-Dec-2023  
 Sample Submission Type : Collected by Lab Representative Completed On : 08-Jan-2024  
 Sample Condition : Good Report Date : 17-Jan-2024  
 Sampling Plan and Method : GL/EN/SOP/161



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method
<b>Discipline: Chemical</b>				
<b>Group: Atmospheric Pollution</b>				
1	Respirable particulate matter	mg/m <sup>3</sup>	0.720	NIOSH - 0600

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

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

*S. Jay*  
Verified By

*E. Prithvirajan*  
Authorized Signature

E. PRITHIVIRAJAN  
LAB MANAGER Page 1 of 1

#### Terms and Conditions:

- \* The test results related only to the items tested.
- \* The test report shall not be reproduced in full or part without the written approval of Glens.
- \* The test items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.
- \* The Laboratory's responsibility under this report is limited to proven wilful negligence and will in no case be more than the invoiced amount.
- \* A Satisfactory test report in no way implies that the product tested is approved by NABL.
- \* Laboratory is not responsible for the authenticity of the photocopied test reports.