

No: DBGVL/Sattur/Env/17/2023 -24

Date: 28<sup>th</sup> Nov 2023

**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 2nd 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 2nd 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 April 2023 to 30th September 2023. 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.**



**Navin Sabharwal**

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***

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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, Tamil Nadu. Pin code - 626205

**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> April 2023 to 30<sup>th</sup> September 2023.  
(2<sup>nd</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 time. Currently established Line – 1 (Phase-1) with a production capacity of 1X2.5 MTPA Cement. Phase II will be established later stage.
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 water requirement is only for equipment cooling, mill spray and domestic purpose. Currently to meet the water requirement, NOC has been obtained from State Surface and Ground Water Resources Data Centre, Chennai vide letter for 2,10,000 LPD vide letter ref. No.DD(G)/OT10/G-6/103/Fresh NOC/Karaikudi /2022 dated 25.08.2022 valid still 24.08.2023. Renewal application has been submitted and it is being processed by State Surface and Ground Water Resources Dept.  Further, for mill spray and equipment cooling, harvested rain water is being utilized to the availability. Approached the “Municipal Commissioner and Engineering In-charge of STP Sattur” towards supply of treated sewage water. Upon their commitment on Sustainable supply, necessary infrastructure shall be created for utilizing for mill spray.
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



S. No	Conditions	Compliance status
	body before obtaining CTO from TNPCB.	2,10,000 LPD per Day vide letter ref. No.DD(G)/OT 10/G-6/103/Fresh NOC/Karaikudi /2022 dated 25.08.2022. Renewal application has been submitted and it is being processed by State Surface and Ground Water Resources Dept.
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> 20 KLD STP has been installed for treating the domestic waste water generation 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 Complied with.</b> The entire treated domestic waste water from STP is used for Gardening purpose only.
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 equipped with high efficiency bag filters at point source emission to control emissions within the prescribed limit. Also, auxiliary Bag filters are installed in various locations to reduce fugitive emissions.  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 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	<b>Point is noted and accordingly, shall ensure the compliance.</b>



S. No	Conditions	Compliance status
	lab continuously. In case, any radio-activity is noticed then the said gypsum shall not be used.	Procured Gypsum sample has been sent to accredited AERB lab for testing radioactive substance. Once the analysis report is received, the same shall be submitted.
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.	<p><b>Noted and being complied with.</b></p> <p>Pre-employment health checkup is being conducted annually for both employees &amp; workers.</p> <p>In the Pre-employment health check including Silicosis (X-ray), audiometry, Spirometry, etc. are also is being carried out as per the requirements.</p> <p>Sample Health checkup report has been enclosed as an <b>annexure – 1</b></p>
10.	Adequate engineering measures should be implemented to contain fugitive emissions within the prescribed limit.	<p><b>Noted and being complied with.</b></p> <p>Auxiliary bag filters have been installed at loading and unloading sessions, transfer towers &amp; silos. Enclosures were provided at all unloading stations with water spraying system to control fugitives. All transfer points were fully closed and fugitives were controlled by water spraying or by extraction to bag filters. Clinker, Cement and Dry fly ash were stored in silos and are provided with Bag filters to control emissions. Gypsum, Slag and other additives were stored in a covered shed. Cement packing machines were equipped with dust extraction system with adequate ventilation. Also vacuum sweeping machines is being used for sweeping spilled cement on shop floor and recycling.</p> <p>Further, thick cover of Green belt containing native species are being planted along the boundary to control airborne dust emissions.</p>
11.	Workers should be protected against inhalation of dust particles with appropriate protective measures.	<p><b>Noted for compliance</b></p> <p>Auxiliary bag filters have been installed at loading and unloading sessions, transfer towers &amp; silos to reduce fugitive emissions. Road sweeping machines has been deployed for cleaning of roads on daily basis. Also, water tankers have been deployed in the</p>



S. No	Conditions	Compliance status
		<p>katcha roads and vehicle movement areas to control fugitive dust emissions.</p> <p>Further, wear three and Carry three concepts followed by all the workers 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.</p>
12.	<p>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>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><b>Noted and being complied with.</b></p> <p>Currently, 2,500 saplings have been planted across the boundary as per recommendation of DFO viz Puliymaram, 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.</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-2</b></p>
13.	<p>Taller/one year old saplings raised in appropriate size of bags, preferably eco- friendly bags should be planted in proper placement 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 being procured from the Nursery and also from the forest department having at least 3 to 5 feet height. While ordering saplings from nursery, it is ensured that eco-friendly bag is provided and plantation is done through proper spacing. Thick green cover is proposed to be developed along the boundary in the organized manner and earmark green cover with GPS coordinates.</p>
14.	<p>The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff</p>	<p><b>Noted and being complied with.</b></p>



S. No	Conditions	Compliance status
	from rooftops, paved and unpaved roads as committed.	All the roof top collected rainwater is channelized and stored in a pond which will be utilized in the process.  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 18 <sup>th</sup> June 2022 to 31 <sup>st</sup> March 2023
15.	The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.	<b>Noted for compliance</b>  Plant commenced on 14 <sup>th</sup> Aug 2023. Hazardous Waste authorization application will be filled in upcoming day. Further, as of now there is no generation of Hazardous waste.
16.	No waste of any type to be disposed off in any other way other than the approved one.	<b>Noted.</b>  Waste generated from the plant operations shall 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>Complied with.</b>  An occupational Health Centre with necessary infrastructure along with Factory medical officer is available continuously for monitoring the health of the workers.
19.	The project proponent shall measure the criteria air pollutants data (including CO) due to traffic	<b>Noted and Complied with.</b>



S. No	Conditions	Compliance status
	again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.	Ambient Air Quality monitoring is being carried out at 4 Locations surrounding the plant premises including CO through accredited Labs. The report has been submitted to TNPCB and SEIAA. The latest Air Quality report is enclosed as <b>Annexure – 3</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.</b> It is not feasible for installation of Solar panel in the roof top due to constrain in the layout. But feasibility report is being prepared for the installation of 16 MWp Solar plant adjacent to the plant premises and its installation is in progress, once commissioned 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 development in the vicinity of the project site and Job opportunity shall be given to local peoples.	<b>Noted and Being complied with.</b> Based on the job nature, potential persons from the neighboring community has been provided with the job opportunity both directly and indirectly. Through CSR activity, technical training for the skill development is being carried out through recognized institutions/competent persons, 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.



S. No	Conditions	Compliance status
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 (R5. 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.	<p><b>Noted and being complied.</b></p> <p>As mentioned in the proposed EC application, the plant will be established in a phased manner. Now, Phase-I has been established and a letter had been submitted to SEIAA-TN dated 28<sup>th</sup> April 2023, towards consideration of paying CER amount 50% during Phase I establishment and the remaining during Phase II implementation.</p> <p>With respect to above, INR 3.6 Crores paid for establishing Biodiversity Lab at Kallakkadu Mundanthurai Tiger Reserve on 12<sup>th</sup> June 2023 DD No. 6994 Dated 09.06.2023.</p> <p>Receipt of payment is enclosed as <b>Annexure – 4</b>. 3.9 Crore shall be paid for Development of Nellai Wild Life Sanctuary, Ganigaikondan WLS &amp; Koonthankulam Bird Sanctuary during Phase-II implementation.</p>
(A)	<b>Standard Conditions</b>	
1.	The APC measures to achieve Emission standards for cement Industries issued by CPCB shall be complied.	<p><b>Noted for compliance.</b></p> <p>All the Bag filters are designed and installed to meet the emission norms prescribed by the board.</p>
2.	The fugitive emission during loading and uploading shall be suitably controlled. Fugitive emission in the work zone environment and raw materials storage & handling areas shall be regularly monitored. The emission shall confirm to the limits prescribed by the TNPCB/CPCB.	<p><b>Noted and being complied.</b></p> <p>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.</p> <p>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.</p> <p>Fugitive emissions is monitored on quarterly basis through NABL accredited labs. The latest report is enclosed as <b>Annexure - 5</b></p>
3.	Vehicular emission should be kept under control and each vehicle shall carry valid Emission	<b>Noted and being complied with.</b>





S. No	Conditions	Compliance status
	certificate issued by the Competent Authority.	Water sprinkling is being carried out on the unpaved roads. 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 controlling fugitive emissions. 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 piezometric well so as to monitor the ground water quality in the raw material storage area.	<b>Noted for 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 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 Complied with.</b> Cement mill has been provided with a stack height of 49.0 m. Continuous Emission Monitoring system has been installed and the data is being transferred to CPCB & TNPCB. Kindly note, 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 gaseous monitoring of SO <sub>2</sub> & NO <sub>x</sub> for Standalone Grinding Units.



S. No	Conditions	Compliance status
		Stack emission monitoring is being carried through accredited Labs. The latest Stack emission monitoring is enclosed with ambient air quality report as Annexure – 3.
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 and complied with.</b>  There is 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 as per 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 and complied with.</b>  The entire treated water from STP will be utilized for Greenbelt development. Further, treated water from STP shall be used for mill spray.
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</b>  Plant commenced on 14 <sup>th</sup> Aug 2023. Hazardous Waste authorization application will be filled in upcoming day. Further, as of now there is no generation of Hazardous waste.
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 had 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.  Data of CAAQMS located near Barrack in downwind (SW) and Near switch yard (SE) is connected with Care Air Center TNPCB.  Further, Ambient Air monitoring is being carried out through NABL accredited labs at four location Viz Near Water Treatment Plant (NE), near Power supply



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		room in downwind (SW), near Switch yard (SE), near clinker silo (NW) in consultation with TNPCB.
12.	The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.	<p><b>Noted for Compliance.</b></p> <p>Currently, Ambient Air monitoring is being carried out monthly through NABL accredited labs at four locations. Order has been given to NABL accredited labs for doing air sampling twice a week and same shall be carried out from Dec'23 and reports shall be submitted.</p> <p>Ambient Air Monitoring reports have been enclosed as annexure – 3.</p>
13.	Interlocking system between process plant and pollution control 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.	<p><b>Complied with.</b></p> <p>Interlock facilities provided. If the emission level of Cement mill and Packer goes above the prescribed norms, the ID fans get tripped automatically and the unit gets tripped.</p>
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.	<p><b>Noted for Compliance</b></p> <p>Ambient Noise is being carried out quarterly from the NABL accredited labs. Monthly Ambient Air monitoring is being carried out through NABL accredited labs at four locations. Plant commenced on 14th Aug'2023, accordingly plant has run with minimum efficiency and it is under stabilization, 1st Dec 2023 onward the Ambient Air monitoring will be carried out twice in a week.</p> <p>Air quality monitoring report is enclosed as Annexure-3.</p> <p>Ambient noise and water monitoring report are enclosed as Annexure-6.</p>
15.	A separate environment and safety management cell with qualified	<b>Complied with</b>



S. No	Conditions	Compliance status
	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.	A full fledged separate environmental cell is in place with an environment professional under the direct supervision of Unit Head. Also, will form 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.	<p><b>Under implementation.</b></p> <p>Currently, 2,500 saplings have been planted across the boundary as per recommendation of DFO viz Puliyamaram, Atthimaram, Tekku, Vembu, Pungam, Senjsanthanam, Savukku, Poovarasu. Aavi, Sengondrai, Manchalkondrai, Naval, Vaadham, and Mahakni, Further, planned to plant varieties of Plants inside the premises in this year.</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 Annexure-2</p>
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 will be 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	<p><b>Noted, Being Complied with.</b></p> <p>All the roof top rainwater has been connected and stored in a pond which shall 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</p>



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	rainwater harvested as a supplement to fresh water drawl.	to a Rain water harvesting pond. The proposal feasibility is being studied through experts.
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.	<b>Noted for Compliance.</b> Conservation plan for Schedule-I species peafowl has been prepared by Dr. M.Selvanayagam, Dean-Research Loyola - ICAM College of Engineering & Technology and the measures proposed are being implemented during the Project & Operational phase.
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.	<b>Noted for Compliance.</b> There is no forest area or bird migratory pathway in the project area.
21.	The natural drainage pattern in the project area shall be maintained 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.	<b>Noted, being Complied with.</b> 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>



S. No	Conditions	Compliance status
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 With</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 18 <sup>th</sup> June 2022 to 31 <sup>st</sup> March 2023.
IV.	Greenbelt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80%.	<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 years, consisting of native species covering 75 m width with a density not less than 2,500 per ha. Dedicated team for proper care, including regular trimming & pruning of plants and watering, will be 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/sent to 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	<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.



S. No	Conditions	Compliance status
	shall be submitted to the MoEF&CC, Regional Office at Chennai within six months.	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 villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration.	<b>Noted and Being complied with.</b> Through CSR, focusing on Soil & Water conservation, Livelihood development and medical facilities etc. Enclosed the CSR report as <b>Annexure – 7</b>
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	<b>Complied with.</b> A full fledge separate environmental cell is in place with an environment professional under the direct supervision of Unit Head. Also, will form department



S. No	Conditions	Compliance status
	that the Head of the Cell shall directly report to the Head of the Organization.	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>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 safeguards recommended in the EIA / EMP report.	<b>Being Complied with</b> All the protection measures as mentioned in the EIA & EMP report is being implemented
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>Being Complied with</b> Different types of Skill development training are 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	<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.





S. No	Conditions	Compliance status
	funds so provided shall not be diverted for any 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.	<p><b>Complied with.</b></p> <p>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.</p>
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 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.	<p><b>Complied with.</b></p> <p>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 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</p>
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	<p><b>Complied with.</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>



S. No	Conditions	Compliance status
	the website of the Company by the proponent.	
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>
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.	<p><b>Complied with.</b></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> <p>The online monitoring data has been connected to the CARE AIR, TNPCB and to CPCB server. Also, manual monitoring is being carried out through NABL accredited labs and its report is being submitted to half yearly to MoEF regional office &amp; TNPCB. The real time data is displayed at the main gate.</p>
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	<p><b>Complied with.</b></p>



S. No	Conditions	Compliance status
	<p>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.</p>	<p>Environmental clearance has been uploaded on company's website i.e. <a href="https://www.dalmiacement.com/sustainability/">https://www.dalmiacement.com/sustainability/</a> .</p> <p>The copy of EC has been sent to local body and the acknowledgement had been sent with 1st six-monthly EC compliance report period from 18th June 2022 to 31st March 2023</p>
XXII.	<p>Project authorities shall inform the MoEF&amp;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.</p>	<p><b>Noted and Complied with.</b></p> <p>The land developmental work started on 28.06.2022. Financial closure date will be informed to MoEF&amp;CC Regional Office, Chennai as well as the SEIAA, TN as and when done.</p>
XXIII.	<p>Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry/CPCB/ SPCB who would be monitoring the compliance of environmental status.</p>	<p><b>Noted.</b></p>
XXIV.	<p>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.</p>	<p><b>Noted.</b></p>
XXV.	<p>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</p>	<p><b>Noted.</b></p>



S. No	Conditions	Compliance status
	the provisions of Environment (Protection) Act, 1986.	
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 Insurance Act. 1991 and its amendments.	<b>Noted.</b>
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>






## TEMPORARY MEDICAL EXAM FITNESS

**Dalmia**  
cement  
FUTURE TODAY

DATE: 09/09/2023

NAME OF EMPLOYEE : Karthick. M

AGE / GENDER : 21/M  
DOB: 25/11/2002

HT: 168 Cm

CONTRACT : Elite by Construction

WT: 43 Kg

DESIGNATION : Guardianer.

PRESENT HISTORY : (N)

### PAST HISTORY :

ASTHMA	TUBERCULOSIS	HYPERTENSION	DIABETES	SEIZURE	SKIN ALLERGY
Nil	Nil	Nil	Nil	Nil	Nil

### GENERAL EXAM :

VITALS: TEM - 97.6 F: PULSE - 70 b/m: BP - 110 / 70 mmHg: SPO2 - 98 %

ANEMIA	EDEMA	CLUBBING	CYANOSIS	JAUNDICE	LYMPHADENOPATHY
Nil	Nil	Nil	Nil	Nil	Nil

### SYSTEMIC EXAM :

CVS - S<sub>1</sub>, S<sub>2</sub>

RS - NVBS

ABD - Soft

CNS - (N)

### VISION :

RIGHT EYE	LEFT EYE
6/6	6/6

I, FACTORY MEDICAL OFFICER, DCBL COME TO THE CONCLUSION AFTER CLINICALLY EXAMINING THE CANDIDATE THAT HE IS PHYSICALLY FIT / UNFIT FOR THE JOB.



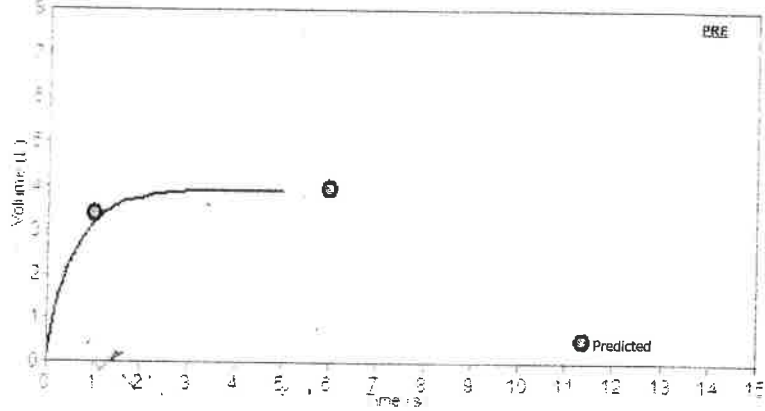
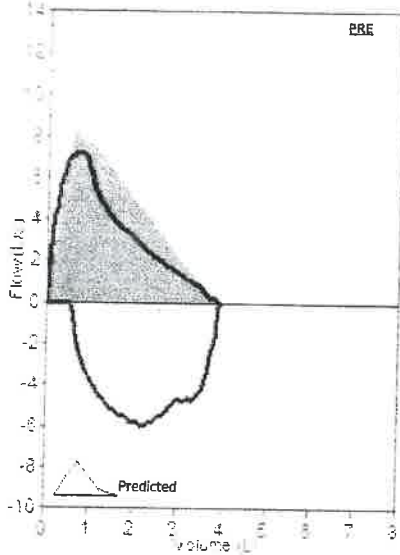
Dr. KARTHIKEYAN G. MEEVAJAN,  
 REG NO: 8477 AND RES ID: 10000,  
 FACTORY MEDICAL OFFICER,  
 DALMIA CEMENT, BANGALORE,  
**FMO SIGNATURE**  
 MEMBERSHIP NO: 10000, 10000

**Pulmonary Function Test Results**

**DALMIA BHARAT GREEN VISION LIMITED**

**Visit date 08-09-2023**

Patient code	Eli67	Age	20
Surname	M	Gender	Male
Name	Karthika	Height, cm	168
Date of birth	25-11-2002	Weight, kg	48
Ethnic group	South indian	BMI	17.01
Smoke	No smoker	Pack-Year	
Patient group			



Quality Control Grade: D  
1 Acceptable trials

**PRE Trial date 08-09-2023 17:34:47**

Parameters	LLN	Pred	Best	%Pred	Z-score	PRE # 1	PRE # 2	PRE # 3	POST	%Pred	%Chg
FVC	L	3.14	3.92	3.93*	100	0.03	3.93				
FEV1	L	2.64	3.37	3.17*	94	-0.45	3.17		*		
FEV1/FVC	%	75.7	86.3	80.7*	93	-0.87	80.7		*		
PEF	L/s	5.64	8.36	7.28*	87	-0.66	7.28		*		
ELA	Years		20								
FEF2575	L/s	2.73	4.35	2.82	65	-1.56	2.82				
FET	s		6.00	4.99	83		4.99				
FVC	L	3.14	3.92	3.34	85	-1.23	3.34				
FEV1/VC	%	75.7	86.3								

\*Best values from all loops - BTPS 1.073 28 °C (82.4 °F) - Predicted Knudson

**Conclusion / Medical report**

Signature

*K. Karthika*  
**DR. KARTHIKA KAN G NIBBS, APH,**  
 REG NO: 94677 APH REG NO: 95511  
 FACTORY MEDICAL OFFICER  
 DALMIA CEMENT (BHARAT) GREEN VISION LTD  
 MEDICAL CEMENT WORKS, SATTUR.

Instrument used  
 Minispir S S/N C16618  
 Last calibration check 07-12-2022 16:37:38

AUDIOLOGICAL EVALUATION

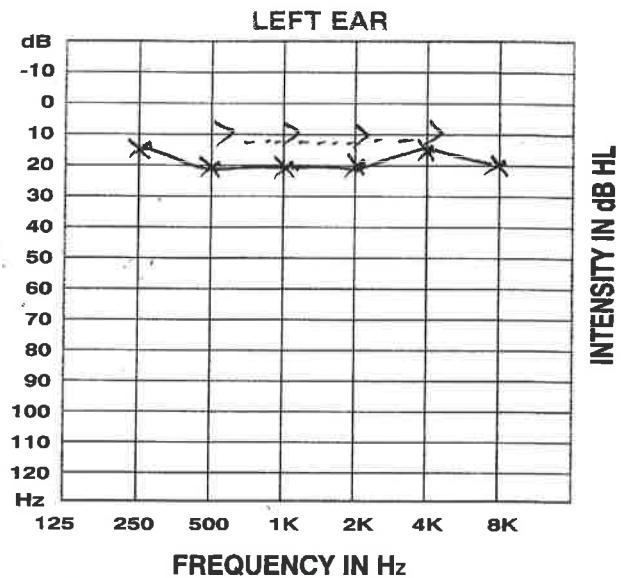
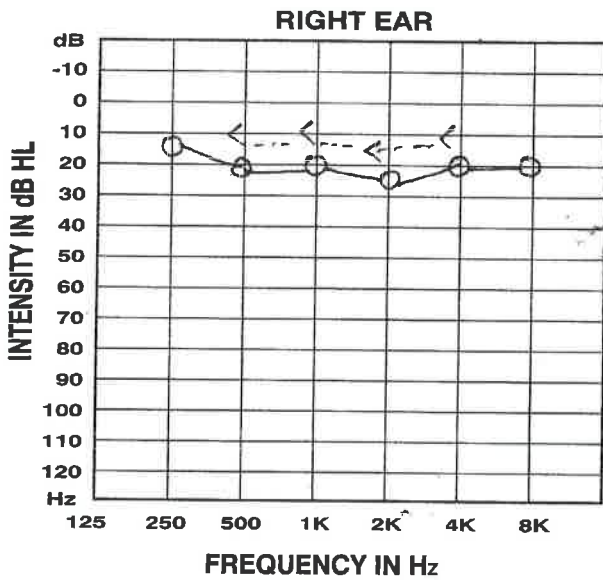
**MOTHER'S SPEECH & HEARING CENTRE**

33/8, First Floor, Krishna Complex, East Park Road,  
Opposite Municipality Office, Kovilpatti - 628 501.



Name: MR. KARTHIC Age/Sex: 21M Date: 07.10.23

Complaints : ..... Occupation: .....



	R	L
PTA	21.6dB	20dB
SRT		
SDS		



MODALITY	R	L
AC Unmasked	○	×
AC Masked	△	□
BC Unmasked	<	>
BC Masked	◁	▷
NON Response	⊕	⊗

AUDIOLOGICAL REMARKS :

BL HEARING SENSITIVITY WITHIN  
NORMAL LIMITS.

RECOMMENDATIONS :



Tirunelveli  
81100 66800

Thoothukudi  
85250 66800

Tenkasi  
81108 66800

Hearing Tests

Hearing Aids

Hearing Aid Service

Speech & Voice Therapy

# Dalmia Bharat Green Vision Limited

Unit: Meenakshi Cement Work

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

## Green Belt Development

Currently, 2,500 saplings have been planted across the boundary as per recommendation of DFO viz Puliyamaram, Atthimaram, Tekku, Vembu, Pungam, Senjsanthanam, Savukku, Poovarasu. Aavi, Sengkonndrai, Manchalkonndrai, Naval, Vaadham, and Mahakni, Further, planned to plant varieties of Plants inside the premises in this year.



*Suman*

Dalmia Bharat Green Vision Limited  
Sattur





## TEST REPORT

ULR NOTC85822300008239F

Report No. : EN23090539

Name of the Client : Dalmia Bharath Green Vision Ltd

Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District.  
626205

Sample Name : Ambient Air Quality      Sampling From : 13-Sep-2023 09:30 AM

Sample Description : Ambient Air Quality      Sampling To : 14-Sep-2023 09:30 AM

Sampling Location : Near WTP      Received Date : 15-Sep-2023

Sample Submission Type : Collected by Lab Representative      Commenced On : 15-Sep-2023

Sample Condition : Good      Completed On : 25-Sep-2023

Humidity : 59%      Report Date : 29-Sep-2023

Temperature : 34°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>	14.5	IS 5182 (Part 2): 2017	Max 80
2	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	24.0	IS 5182 (Part 6): 2006	Max 80
3	Particulate Matter (PM10)	µg/m <sup>3</sup>	62.1	IS 5182 (Part 23): 2006	Max 100
4	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	21.2	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

Verified By

Authorized Signature

  
E. PRITHIVIRAJAN  
LAB MANAGER

GLens Innovation Labs Pvt Ltd. #6/11, W.P.O. Sattur Taluk, Virudhunagar District, Virudhunagar, Tamil Nadu - 626205

### Terms and Conditions:

- \* The Test Results Relate 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 excepts in the case as required by the application 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 so tested is approved by NABL.
- \* Laboratory is not responsible for the authenticity of photocopied test reports.



## TEST REPORT

ULR NOTC858223000008238F

Name of the Client : Dalmia Bharath Green Vision Ltd

Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District.  
626205

Sample Name : Ambient Air Quality Sampling From : 13-Sep-2023 09:40 AM

Sample Description : Ambient Air Quality Sampling To : 14-Sep-2023 09:40 AM

Sampling Location : Barrack(Near Temporary Construction Power Supply) Received Date : 15-Sep-2023

Sample Submission Type : Collected by Lab Representative Commenced On : 15-Sep-2023

Sample Condition : Good Completed On : 25-Sep-2023

Humidity : 59% Report Date : 29-Sep-2023

Temperature : 34°C Sampling Plan and Method : IS 5182 Part V & XIV

Report No. : EN23090538



### 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>	14.8	IS 5182 (Part 2): 2017	Max 80
2	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	26.6	IS 5182 (Part 6): 2006	Max 80
3	Particulate Matter (PM10)	µg/m <sup>3</sup>	59.4	IS 5182 (Part 23): 2006	Max 100
4	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	18.7	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

GLENS INNOVATION LABS PVT LTD, 66/3A, 3B, MULLISEVAL VILLAGE, UPPATHUR, MAIN ROAD, NEAR NALLI RAILWAY STATION, SATTUR TALUK, VIRUDHUNAGAR DISTRICT, VIRUDHUNAGAR, TAMIL NADU, INDIA. CONTACT: 04562 23090538

#### Terms and Conditions:

- \* The Test Results Relate 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 excepts in the case as required by the application 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 so tested is approved by NABL.
- \* Laboratory is not responsible for the authenticity of photocopied test reports.



## TEST REPORT

ULR No : TC858223000006368F

**Report No** : EN23080349 **Report Date** : 22 Aug 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
**Sample Name** : Ambient Air Quality  
**Sample Description** : Ambient Air Quality **Sampling Date & Time** : 10 to 11 Aug 2023  
**Sample No** : EN23080349 10.00am to 10.00am  
**Sampling Location** : Near Commercial Office **Sample Received on** : 14 Aug 2023  
**Sample Condition** : Good **Test Started on** : 16 Aug 2023  
**Relative Humidity** : 59% **Test Completed on** : 22 Aug 2023  
**Sampling Procedure** : IS 5182 Part V & XIV **Ambient Temperature** : 32°C  
**Sample Submission Type** : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001	15.3	µg/m <sup>3</sup>	80
2	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6):2006	22.20	µg/m <sup>3</sup>	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	55.6	µg/m <sup>3</sup>	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	22.5	µg/m <sup>3</sup>	60
5	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m <sup>3</sup>	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	µg/m <sup>3</sup>	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m <sup>3</sup>	4
8	Ammonia as NH <sub>3</sub>	GL/EN/SOP/057	BDL(DL:20.0)	µg/m <sup>3</sup>	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	µg/m <sup>3</sup>	-
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m <sup>3</sup>	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-

**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.

**Note** : BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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

Verified By

Authorized Signature  
E. PRITHIVIRAJAM  
LAB MANAGER



## TEST REPORT

ULR No : TC858223000006369F

**Report No** : EN23080350 **Report Date** : 22 Aug 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
**Sample Name** : Ambient Air Quality  
**Sample Description** : Ambient Air Quality **Sampling Date & Time** : 10 to 11 Aug 2023  
**Sample No** : EN23080350 10.15am to 10.15am  
**Sampling Location** : Near Commercial Office **Sample Received on** : 14 Aug 2023  
**Sample Condition** : Good **Test Started on** : 16 Aug 2023  
**Relative Humidity** : 59% **Test Completed on** : 22 Aug 2023  
**Sampling Procedure** : IS 5182 Part V & XIV **Ambient Temperature** : 33°C  
**Sample Submission Type** : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001	13.50	µg/m <sup>3</sup>	80
2	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6):2006	20.50	µg/m <sup>3</sup>	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	60.10	µg/m <sup>3</sup>	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	24.50	µg/m <sup>3</sup>	60
5	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m <sup>3</sup>	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	µg/m <sup>3</sup>	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m <sup>3</sup>	4
8	Ammonia as NH <sub>3</sub>	GL/EN/SOP/057	BDL(DL:20.0)	µg/m <sup>3</sup>	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	µg/m <sup>3</sup>	-
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m <sup>3</sup>	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-

**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.

**Note** : BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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

Verified By

Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

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- \* 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 so tested is approved by NABL.



## TEST REPORT

ULR No : TC858223000006370F

**Report No** : EN23080351 **Report Date** : 22 Aug 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
**Sample Name** : Ambient Air Quality  
**Sample Description** : Ambient Air Quality **Sampling Date & Time** : 10 to 11 Aug 2023  
**Sample No** : EN23080351 10.30am to 10.30am  
**Sampling Location** : Near WTP **Sample Received on** : 14 Aug 2023  
**Sample Condition** : Good **Test Started on** : 16 Aug 2023  
**Relative Humidity** : 59% **Test Completed on** : 22 Aug 2023  
**Sampling Procedure** : IS 5182 Part V & XIV **Ambient Temperature** : 33°C  
**Sample Submission Type** : Collected By Lab Representative

### Test Results


Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001	12.90	µg/m <sup>3</sup>	80
2	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6):2006	19.80	µg/m <sup>3</sup>	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	58.70	µg/m <sup>3</sup>	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	23.20	µg/m <sup>3</sup>	60
5	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m <sup>3</sup>	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	µg/m <sup>3</sup>	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m <sup>3</sup>	4
8	Ammonia as NH <sub>3</sub>	GL/EN/SOP/057	BDL(DL:20.0)	µg/m <sup>3</sup>	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	µg/m <sup>3</sup>	-
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m <sup>3</sup>	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-

**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.

**Note** : BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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

  
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Authorized Signature  
E. PRITHVIRAJAN  
LAB MANAGER

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## TEST REPORT

ULR No : TC858223000006371F

**Report No** : EN23080352 **Report Date** : 22 Aug 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
**Sample Name** : Ambient Air Quality  
**Sample Description** : Ambient Air Quality **Sampling Date & Time** : 10 to 11 Aug 2023  
**Sample No** : EN23080352 **Sampling Date & Time** : 10.45am to 10.45am  
**Sampling Location** : Near Batching Plant **Sample Received on** : 14 Aug 2023  
**Sample Condition** : Good **Test Started on** : 16 Aug 2023  
**Relative Humidity** : 59% **Test Completed on** : 22 Aug 2023  
**Sampling Procedure** : IS 5182 Part V & XIV **Ambient Temperature** : 33°C  
**Sample Submission Type** : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001	14.90	µg/m <sup>3</sup>	80
2	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6):2006	22.40	µg/m <sup>3</sup>	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	62.50	µg/m <sup>3</sup>	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	21.20	µg/m <sup>3</sup>	60
5	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m <sup>3</sup>	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	µg/m <sup>3</sup>	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m <sup>3</sup>	4
8	Ammonia as NH <sub>3</sub>	GL/EN/SOP/057	BDL(DL:20.0)	µg/m <sup>3</sup>	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	µg/m <sup>3</sup>	-
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m <sup>3</sup>	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-

**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.

**Note** : BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

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## TEST REPORT

ULR No : TC858223000004719F

Report No : EN23060600 Report Date : 26 June 2023  
Customer Name : Dalmia Bharat Green Vision Limited  
Customer Address : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
Sample Name : Ambient Air Quality  
Sample Description : Ambient Air Quality Sampling Date & Time : 14 to 15 June 2023  
Sample No : EN23060600 10.00am to 10.00am  
Sampling Location : Near WTP Plant Sample Received on : 19 June 2023  
Sample Condition : Good Test Started on : 20 June 2023  
Relative Humidity : 56% Test Completed on : 26 June 2023  
Sampling Procedure : IS 5182 Part V & XIV Ambient Temperature : 32°C  
Sample Submission Type : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001	10.1	µg/m <sup>3</sup>	80
2	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6):2006	17.7	µg/m <sup>3</sup>	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	57.3	µg/m <sup>3</sup>	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	21.3	µg/m <sup>3</sup>	60
5	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m <sup>3</sup>	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	µg/m <sup>3</sup>	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m <sup>3</sup>	4
8	Ammonia as NH <sub>3</sub>	GL/EN/SOP/057	BDL(DL:20.0)	µg/m <sup>3</sup>	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	µg/m <sup>3</sup>	-
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m <sup>3</sup>	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-

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.

Note : BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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

Verified By

Authorized Signature

S. HARIHARASUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1,1 St Floor, Sri Jothi Complex Murugesan Street, Balavinayagar Nagar, Arumbakkam Chennai 600106

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## TEST REPORT

ULR No : TC858223000004720F

**Report No** : EN23060601 **Report Date** : 26 June 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
**Sample Name** : Ambient Air Quality  
**Sample Description** : Ambient Air Quality **Sampling Date & Time** : 14 to 15 June 2023  
**Sample No** : EN23060601 10.30am to 10.30am  
**Sampling Location** : Near 11 KVA Switch yard **Sample Received on** : 19 June 2023  
**Sample Condition** : Good **Test Started on** : 20 June 2023  
**Relative Humidity** : 56% **Test Completed on** : 26 June 2023  
**Sampling Procedure** : IS 5182 Part V & XIV **Ambient Temperature** : 32°C  
**Sample Submission Type** : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001	11.4	µg/m <sup>3</sup>	80
2	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6):2006	18.6	µg/m <sup>3</sup>	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	56.1	µg/m <sup>3</sup>	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	21.7	µg/m <sup>3</sup>	60
5	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m <sup>3</sup>	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	µg/m <sup>3</sup>	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m <sup>3</sup>	4
8	Ammonia as NH <sub>3</sub>	GL/EN/SOP/057	BDL(DL:20.0)	µg/m <sup>3</sup>	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	µg/m <sup>3</sup>	-
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m <sup>3</sup>	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-

**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.

**Note** : BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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S. HARIHARASUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1.1 St Floor, Sri Jothi Complex Murugesan Street, Balavinayagar Nagar, Arumbakkam Chennai 600106

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## TEST REPORT

ULR No : TC858223000004721F

**Report No** : EN23060602 **Report Date** : 26 June 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
**Sample Name** : Ambient Air Quality  
**Sample Description** : Ambient Air Quality **Sampling Date & Time** : 14 to 15 June 2023  
**Sample No** : EN23060602 11.00am to 11.00am  
**Sampling Location** : Near Fabrication yard **Sample Received on** : 19 June 2023  
**Sample Condition** : Good **Test Started on** : 20 June 2023  
**Relative Humidity** : 56% **Test Completed on** : 26 June 2023  
**Sampling Procedure** : IS 5182 Part V & XIV **Ambient Temperature** : 33°C  
**Sample Submission Type** : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001	9.2	µg/m <sup>3</sup>	80
2	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6):2006	17.1	µg/m <sup>3</sup>	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	49.8	µg/m <sup>3</sup>	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	19.5	µg/m <sup>3</sup>	60
5	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m <sup>3</sup>	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	µg/m <sup>3</sup>	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m <sup>3</sup>	4
8	Ammonia as NH <sub>3</sub>	GL/EN/SOP/057	BDL(DL:20.0)	µg/m <sup>3</sup>	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	µg/m <sup>3</sup>	-
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m <sup>3</sup>	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-

**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.

**Note** : BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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

Verified By

Authorized Signature

S. HARIHARA SUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1,1 St Floor, Sri Jothi Complex Murugesan Street, Balavinayagar Nagar, Arumbakkam Chennai 600106

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# GLens Innovation Labs Pvt Ltd.

NABL ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 9001:2015 & ISO 45001 : 2018



## TEST REPORT

ULR No : TC858223000004722F

Report No : EN23060603 Report Date : 26 June 2023

Customer Name : Dalmia Bharat Green Vision Limited

Customer Address : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District. 626205

Sample Name : Ambient Air Quality

Sample Description : Ambient Air Quality Sampling Date & Time : 15 to 16 June 2023

Sample No : EN23060603 11.10am to 11.10am

Sampling Location : Near Construction power supply area Sample Received on : 19 June 2023

Sample Condition : Good Test Started on : 20 June 2023

Relative Humidity : 56% Test Completed on : 26 June 2023

Sampling Procedure : IS 5182 Part V & XIV Ambient Temperature : 33°C

Sample Submission Type : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement as per NAAQS Specification
1	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001	11.1	µg/m <sup>3</sup>	80
2	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6):2006	20.7	µg/m <sup>3</sup>	80
3	Particulate Matter (PM 10)	IS 5182 (Part 23):2006	65.6	µg/m <sup>3</sup>	100
4	Particulate Matter (PM 2.5)	GL/EN/SOP/062	27.9	µg/m <sup>3</sup>	60
5	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974	BDL(DL:20.0)	µg/m <sup>3</sup>	100
6	Lead as Pb	IS 5182 (Part 22):2004	BLQ(LOQ:0.002)	µg/m <sup>3</sup>	1
7	Carbon Monoxide as CO (1 hour)	IS 5182 (Part 10):1999	BDL(DL:1.14)	mg/m <sup>3</sup>	4
8	Ammonia as NH <sub>3</sub>	GL/EN/SOP/057	BDL(DL:20.0)	µg/m <sup>3</sup>	400
9	Benzene	GL/EN/SOP/08	BLQ(LOQ:4.0)	µg/m <sup>3</sup>	-
10	Benzo (a)Pyrene (Particulate Phase)	GL/EN-INS/SOP/09	BLQ(LOQ:0.03)	ng/m <sup>3</sup>	-
11	Arsenic as As	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-
12	Nickel as Ni	IS 5182 (Part 22):2004	BLQ(LOQ:2.0)	ng/m <sup>3</sup>	-

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.

Note : BDL: Below Detection Limit, DL: Detection Limit / NAAQS: National Ambient Air Quality Standard  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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

Verified By

Authorized Signature

S. HARIHARASUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1,1 St Floor , Sri Jothi Complex Murugesan Street , Balavinayagar Nagar, Arumbakkam Chennai 600106

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## TEST REPORT

ULR No : TC858223000006372F

**Report No** : EN23080353 **Report Date** : 22 Aug 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District. 626205  
**Sample Description** : Stack Emission  
**Sample No** : EN23080353 **Sampling Date Time** : 10 Aug 2023  
**Sampling Location** : Cement Mill stack **Sample Received on** : 14 Aug 2023  
**Sample Condition** : Good **Test Started on** : 16 Aug 2023  
**Sampling Procedure** : GL/EN/SOP/111 **Test Completed on** : 22 Aug 2023  
**Sample Submission Type** : Collected by Lab Representative

### Test result1

S.No	Test Name	Test Method	Results	Units	Limit as per CPCB Standard
<b>Discipline: Chemical</b>					
<b>Group: Atmospheric Pollution</b>					
1	Stack Temperature	IS 11255 (Part -3):2008	383	K	-
2	Velocity	EPA Method 1-3	8.6	m/sec	-
3	Volume of Gas Discharge	IS 11255 (Part -3):2008	284894	Nm <sup>3</sup> /hr	-
4	Oxygen as O <sub>2</sub>	GL/EN/SOP/149	20.80	%	-
5	Carbon Monoxide as CO	GL/EN/SOP/149	BLQ(LOQ:1.14)	mg/m <sup>3</sup>	-
6	Carbon Dioxide as CO <sub>2</sub>	GL/EN/SOP/149	0.1	%	-
7	Particulate Matter	GL/EN/SOP/113	18.30	mg/Nm <sup>3</sup>	30
8	Moisture	EPA Method 1-3	3.80	%	-

.....End of Report.....

Page 1 of 1

Verified By

Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

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**Kalakad Mundanthurai Tiger Conservation  
Foundation,**

Tamil Nadu Trust, N.G.O 'A' Colony,  
Tirunelveli - 627 007.

**Date: 13.06.2023**

To

**Mr. Navin Sabharwal,**  
Unit Head,  
M/s Dalmia Bharat Green Vision Limited,  
Meenakshi Cement Work,  
Mulliseval Village,  
Sattur Taluk,  
Virudhunagar District,  
Tamil Nadu.

**C.No. F1/177/2023 dated .06.2023**

**Sub :** Payment towards establishment of Biodiversity lab at Kalakad Mundanthurai Tiger Reserve as a part of CER by Dalmia Green Vision Limited, located at Meenakshi Cement Work, Mulliseval Village, Sattur Taluk, Virudhunagar District, Tamil Nadu.

**Ref :** 1. Environment Clearance vide SEIAA Letter No. SEIAA /TN/F 8848/EC/3(b)/97/2021 dated 18<sup>th</sup> June 2023, EC identification no EC22B009TN138448 and File No. 8848.  
2. Mr. Navin Sabharwal, Unit Head, M/s Dalmia Bharat Green Vision Limited, DBGVL/Sattur/Env/10/2023-24 dated 12<sup>th</sup> June 2023.

**Greetings from KMTR.**

**Kalakad Mundanthurai Tiger Reserve (KMTR)** is the 1<sup>st</sup> Tiger Reserve in Tamil Nadu and 17<sup>th</sup> and Southern Most Tiger Reserve in India and preserving endangered species of flora and fauna. It is the birthplace of as many as 14 rivers and the perennial "**Thamirabarani**" is one among them. Hence it is called "**River Sanctuary**." The enjoyment of scenic beauty here is at a sky limit. The rich Biodiversity of the Reserve stimulates a true nature loving tourist to visit this tiger reserves again and again.

The conservation of biodiversity through education and training, promotion of eco-tourism and creating awareness among stakeholders,

besides creating livelihood opportunities for the local people are the main objectives for setting up the Biodiversity park. Your payment towards the establishment of Biodiversity Lab at Kalakad Mundanthurai Tiger Reserve will be of much helpful in implementation various activities in the park.

I would like to **acknowledge the payment of Rs.3,60,00,000/- (Rupees Three Crore and Sixty Lakhs only) Demand Draft from Axis Bank, No-6994 dated 09.06.2023.**

**Thanking You**

Sincerely,

*13/06/23*

The Executive Director,  
Kalakad Mundanthurai Tiger Conservation Foundation,  
Tamil Nadu Trust, Tirunelveli - 7.

SAVE TIGER CONSERVE NATURE

---

**Kalakad Mundanthurai Tiger Conservation Foundation,**  
Tamil Nadu Trust, N.G.O 'A' Colony, Tirunelveli, Tamilnadu.

Email: [edkmtcf@gmail.com](mailto:edkmtcf@gmail.com)

{Phone & Fax: 0462 - 4953523



TAMIL NADU FOREST DEPARTMENT  
KALAKAD - MUNDANDURAI  
TIGER CONSERVATION FOUNDATION  
- TAMILNADU TRUST  
TIRUNELVELI. No 004187

**CASH RECEIPT**

Date 12.06.2022 No.  
To Dalmia Bharat Green Vision Ltd.  
Meenakshi Cement Works, Mullaseval, Sathur, T.N.

Particulars	Amount Rs.
<u>1006 Donation</u> Received from Dalmia Bharat Green Vision Ltd. Rs. 3.6 crores by DD. No. 627211009	3,60,00,000

Rupees Three Crores and Sixty  
Lakhs only

EXECUTIVE DIRECTOR;

KALAKAD MUNDANTHURAI TIGER  
CONSERVATION FOUNDATION

மரங்களை நாம் வளர்த்தால் அழகான தமிழகம் உண்டாகும்

**HELP SAVE TIGER**

No: DBGVL/Sattur/Env/10/2023-24

Date: 12<sup>th</sup> June 2023

To  
**The Executive Director**  
Kalakad Mundanthurai Tiger Conservation Foundation,  
Tamil Nadu Trust, NGO 'A' Colony  
Tirunelveli - 627 007.

**Respected Sir,**

**Sub:** Payment towards establishment of Bio diversity lab at Kallakadu Mundanthurai Tiger reserve as a part of CER by Dalmia Green Vision Limited, located at "Meenakshi Cement Work" Mulliseval Village, Sattur taluk, Viruthunagar district, Tamil Nadu.

**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.

We, M/s Dalmia Bharat Green Vision Limited (DBGVL) – a subsidiary of Dalmia Cement (Bharat) Limited, is establishing Cement Grinding Unit at Mulliseval Village, Sattur taluk, Viruthunagar district. As per the Environmental Clearance (ref letter above), specific Condition no. 24, as a part of CER activity, INR 3.6 Crores needs to be spent towards establishment of Biodiversity Lab at Kallakadu Mundanthurai Tiger Reserve (KMTR) in consultation with State Forest Department before obtaining CTO from TNPCB.

In this regard, we have approached SEIAA officials and they advised us to pay INR 3.6 Crores in form of Demand draft to Executive Director, KMTR for establishing the Biodiversity lab. Hence, we are enclosing herewith a **Demand Draft from Axis Bank, No. 6994 dated 09.06.2023 for INR 3.6 Crores.**

Request your good office to kindly acknowledge the same and give us the payment receipt. Also, request to kindly update the status of amount spent on quarterly basis to us for our kind records and also updating to SEIAA officials as per the requirements.

Thanking you,

Yours faithfully,  
**For M/s. Dalmia Bharat Green Vision Ltd.**

  
**Navin Sabharwal**  
Unit Head



Received  
Lionel  
12/6/23

**Encl:** Axis Bank DD no 6994 dated 09.06.2023 for INR 3.6 Crores.

**CC:** 1. The Member Secretary, State Level EIA Authority- Tamil Nadu, Panagal Building, Chennai - 600 015.  
2. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.  
Tirunelveli - 627 007.

### **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





**TEST REPORT**

**ULR NOTC858223000008241F**

**Report No. : EN23090541**

Name of the Client : Dalmia Bharath Green Vision Ltd  
 Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mullaseval Village, Uppathur Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District. 626205  
 Sample Name : Fugitive Emission Sampling Date : 13-Sep-2023  
 Sample Description : Fugitive Emission Received Date : 15-Sep-2023  
 Sampling Location : Adjacent to the Additive Storage Shed Commenced On : 15-Sep-2023  
 Sample Submission Type : Collected by Lab Representative Completed On : 23-Sep-2023  
 Sample Condition : Good Report Date : 29-Sep-2023



**Test Results**

S. No.	Parameters	Units	Results Obtained	Test Method
<b>Discipline: Chemical</b>				
<b>Group: Atmospheric Pollution</b>				
1	Respirable particulate matter	µg/m3	170 000	NIOSH - 0600

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

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

Verified By

Authorized Signature

**E. PRITHIVIRAJAN**  
 LAB MANAGER

GLENS INNOVATION LABS PVT LTD, #9/1, J S P Colony, 301-303 Complex Marudheswar Street, Balasambathur, Nagar, Arundhankottai, Chennai-600 133

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## TEST REPORT

ULR No : TC858223000006373F TO 6379F

**Report No** : EN23080355 to 0361 **Report Date** : 22 Aug 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
 Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
 Virudhunagar District. 626205  
**Sample Description** : Ambient Noise  
**Sample No** : EN23080355 to 0361  
**Sampling Procedure** : IS 9989:1981  
**Sampling Date** : 12 Aug 2023  
**Sample Received on** : 14 Aug 2023

### Test Results

S.No	Sample Location	Noise Level dB(A)
1	Near Mill Building	70.60
2	Near CCR	71.20
3	Near Packing Plant	73.40
4	TT3	70.60
5	BRU	72.30
6	Additive storage area	71.80
7	Gate Complex	70.70

#### Limit Set by CPCB:

I) Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A)
II) Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A)
III) Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A)
IV) Silence Area	: Day Time-50 dB (A);	Night Time-40 dB (A)

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

Page 1 of 1

*[Signature]*  
Verified By

*[Signature]*  
Authorized Signature

E. PRITHIVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1, 1 St Floor, Sri Jothi Complex Murugesan Street, Balavinayagar Nagar, Arumbakkam Chennai 600106

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# Glens Innovation Labs Pvt Ltd.

NABL ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 9001:2015 & ISO 45001 : 2018



## TEST REPORT

ULR No : TC858223000004730F TO 4739F

Report No : EN23060611 to 0620 Report Date : 26 June 2023  
Customer Name : Dalmia Bharat Green Vision Limited  
Customer Address : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
Sample Description : Ambient Noise  
Sample No : EN23060611 to 0620  
Sampling Procedure : IS 9989:1981  
Sampling Date : 16 June 2023  
Sample Received on : 19 June 2023

### Test Results

S.No	Sample Location	Noise Level dB(A)	
		Day	Night
1	Near Main Gate,	55.3	54.6
2	Near Weigh Bridge	49.6	46.3
3	Near Packing Plant	52.9	48.6
4	Near CCR	53.6	50.2
5	Near Mill house	57.3	54.2
6	Near WTP	55.2	52.6
7	Near HAG	56.3	52.2
8	Near Clinker silo	59.3	57.6
9	Near Hooper Building	58.9	53.4
10	Near BRU	48.6	46.3

#### Limit Set by CPCB:

I) Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A)
II) Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A)
III) Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A)
IV) Silence Area	: Day Time-50 dB (A);	Night Time-40 dB (A)

Verified By

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

Page 1 of 1

Authorized Signature

S. HARIHARA SUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1,1 St Floor, Sri Jothi Complex Murugesan Street, Balavinayagar Nagar, Arumbakkam Chennai 600106

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# Glens Innovation Labs Pvt Ltd.

NABL ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 9001:2015 & ISO 45001 : 2018



## TEST REPORT

ULR No : TC858223000004723F TO 4728F

**Report No** : EN23060604 to 0609 **Report Date** : 26 June 2023  
**Customer Name** : Dalmia Bharat Green Vision Limited  
**Customer Address** : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village,  
Uppathur Main Road, Near Nalli Railway station, Sattur Taluk,  
Virudhunagar District. 626205  
**Sample Description** : Work zone Noise  
**Sample No** : EN23060604 to 0609  
**Sampling Procedure** : IS 9989:1981  
**Sampling Date** : 16 June 2023  
**Sample Received on** : 19 June 2023

### Test Results

S.No	Sample Location	Noise Level dB(A)	
		Day	Night
1	Near Bathing Plant(Satyapal)	39.8	33.4
2	Near Bathing Plant(Arun Excello)	40.6	38.2
3	DG Shed(Near Construction Power supply)	52.6	50.1
4	Near office container	55.2	50.8
5	Near Canteen	50.9	46.3
6	Near UH Office	46.2	44.8

Note: As Per Indian Factories act 1948 Noise Limit was 90 dB(A)

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

Page 1 of 1

Verified By

Authorized Signature  
S. HARIHARA SUDHAN  
ASSISTANT MANAGER

GLENS INNOVATION LABS Pvt Ltd, #6/1,1 St Floor, Sri Jothi Complex Murugesan Street, Balavinayagar Nagar, Arumbakkam Chennai 600106

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## TEST REPORT

Report No. : EN23090542

ULR NOTC858223000008242F

Name of the Client : Dalmia Bharath Green Vision Ltd

Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District  
626205

Sample Name : Drinking Water Sampling Date : 14-Sep-2023

Sample Description : Drinking Water Received Date : 15-Sep-2023

Sampling Location : WTP Commenced On : 15-Sep-2023

Sample Submission Type : Collected by Lab Representative Completed On : 29-Sep-2023

Sample Condition : Good Report Date : 29-Sep-2023

Sample Quantity : 2.00 Litre

Sampling Plan and Method : GL/EN/SOP/001 & 003, GL/MB/SOP/06



### Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible Limit
<b>Discipline: Chemical</b>						
<b>Group: Water</b>						
1	Colour	Hazen	1	IS 3025 (Part 4): 1983	5	10
2	Odour	-	Agreeable	IS 3025 (Part 5): 2018	Agreeable	Agreeable
3	pH Value	-	6.55	IS 3025 (Part 11): 1983	6.5 to 8.5	-
4	Taste	-	Agreeable	IS 3025 (Part 8): 1984	Agreeable	Agreeable
5	Turbidity	NTU	BLQ(LOQ : 0.1)	IS 3025 (Part 10): 1984	1	5
6	Calcium as Ca	mg/L	2.4	IS 3025 (Part 40): 1991	75	200
7	Chloride as Cl	mg/L	37.2	IS 3025 (Part 32): 1988	250	1000
8	Fluoride as F	mg/L	0.2	IS 3025 (Part 60): 2008	1.0	1.5
9	Free Residual Chlorine	mg/L	BLQ(LOQ : 0.1)	IS 3025 (Part 26): 1986	0.2	1.0
10	Magnesium as Mg	mg/L	1.9	IS 3025 (Part 46): 1994	30	100

Verified By

Authorized Signature

E. PRITHIVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS PVT. LTD. 75/113 5th Floor, Sri Padma Ensembles, Maragann Street, Balayoganagar, Nageri, Arushakkottam Chennai 600175.

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## TEST REPORT

Report No. : EN23090542

S. No.	Parameters	Units	Results Obtained	Test Method	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible Limit
11	Nitrate as NO3	mg/L	32.7	APHA 23rd Edition Part 4500 NO3-B: 2017	45	No relaxation
12	Sulphate as SO4	mg/L	8.2	IS 3025 (Part 24): 1986	200	400
13	Total Hardness as CaCO3	mg/L	14.0	IS 3025 (Part 21): 2009	200	600
14	Conductivity @ 25°C	µS/cm	218.00	IS 3025 (Part 14): 1984	NA	NA
15	Iron as Fe	mg/L	BLQ(LOQ : 0.05)	IS 3025 (Part 53): 2003	1.0	No relaxation
16	Nitrite as NO2	mg/L	BLQ(LOQ : 0.01)	IS 3025 (Part 34): 1988	NA	NA
<b>Group: Pollution and Environment</b>						
17	Free Ammonia as NH3	mg/L	BLQ(LOQ : 0.5)	APHA 23rd Edition Part 4500 NH3 C : 2017	NA	NA
18	Silica as SiO2	mg/L	1.58	IS 3025 (Part 35): 1988	NA	NA
19	Phosphate as PO4	mg/L	BLQ(LOQ : 0.05)	APHA 23rd Edition Part 4500 P D: 2017	NA	NA
<b>Group: Residues in Water</b>						
20	Sodium as Na	mg/L	17.8	APHA 23rd Edition Part 3500 - Na B : 2017	NA	NA
21	Potassium as K	mg/L	BLQ(LOQ : 1.0)	APHA 23rd Edition Part 3500 - K B: 2017	NA	NA
22	Manganese as Mn	mg/L	BLQ(LOQ : 0.002)	IS 3025 (Part 65): 2014	-	-
<b>Discipline: Biological</b>						
<b>Group: Pollution and Environment</b>						
23	E.coli	100ml	Absent	IS 15185:2016	Absent per 100 ml	
24	Total Coliforms	100ml	Absent	IS 15185:2016		

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

mg/L - Milligram per liter

Remarks : The above mentioned water sample conforms to the requirements of Acceptable Limits as per IS 10500:2012 for the above tested parameters.

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

Verified By

Authorized Signature  
E. PRITHIVIRAJAN  
LAB MANAGER

GLENS INNOVATION LABS Pvt Ltd. 101/1, 1st Floor, Sri Jeeva Complex, Marriyegon Street, Balaram Nagar, Arundhikanchi, Andhra Pradesh

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# GLens Innovation Labs Pvt Ltd.

NABL ACCREDITED AS PER ISO/IEC 17025 : 2017, CERTIFIED AS PER ISO 9001:2015 & ISO 45001 : 2018

## TEST REPORT

Report No. : EN23090542-01

Name of the Client : Dalmia Bharath Green Vision Ltd  
Address of the Client : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur  
Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District.  
626205  
Sample Name : Drinking Water Sampling Date : 14-Sep-2023  
Sample Description : Drinking Water Received Date : 15-Sep-2023  
Sampling Location : WTP Commenced On : 15-Sep-2023  
Sample Submission Type : Collected by Lab Representative Completed On : 29-Sep-2023  
Sample Condition : Good Report Date : 29-Sep-2023  
Sample Quantity : 2.00 Litre  
Sampling Plan and Method : GL/MB/SOP/06



### Test Results

S. No.	Parameter	Units	Results Obtained	Test Method
Discipline: Biological				
Group: Pollution and Environment				
01	Faecal Coliforms	MPN/100ml	<2	IS 1622: 1981 RA :2019
02	Faecal streptococci	MPN/100ml	<2	IS 1622: 1981 RA :2019
03	Standard Plate Count	Cfu/ml	250	IS 1622: 1981 RA :2019

Note:- Cfu-Colony Forming Unit

MPN-Most Probable Number

<2 May considered as Absent

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

Verified By  
B. BHUVANESWARI  
Sr. Microbiologist

Authorized Signature  
A. SELVI  
Manager-Microbiology

GLENS INNOVATION LABS PVT LTD, #6/1,1 STREET, 3RD FLOOR, COMPLEX, MANGESAN STREET, VIRUDHUNAGAR, NAGAR, VIRUDHUNAGAR, TAMIL NADU, INDIA. CONTACT NO: 04561160

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## TEST REPORT

ULR No : TC858223000004729P

Report No : EN23080362 Report Date : 22 Aug 2023  
Customer Name : Dalmia Bharat Green Vision Limited  
Customer Address : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District. 626205  
Sample Name : Water  
Sample Description : Drinking Water  
Sample No : EN23080362  
Sampling Location : Drinking Water Sampling Date : 10 Aug 2023  
Sample Condition : Good Sample Received on : 14 Aug 2023  
Sample Quantity : 2 Litre Test Started on : 16 Aug 2023  
Sampling Plan & Method : GL/EN/SOP/001 & 003, GL/EN/SOP/06 Test Completed on : 22 Aug 2023  
Sample Submission Type : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible Limit in the absence of alternative source
<b>MICROBIOLOGICAL ANALYSIS</b>						
1	Total coliforms	IS 1622: 1981 RA :2019	Absent	100mL	Absent/100mL	
2	Faecal coliform *	IS 1622: 1981 RA :2019	Absent	100mL	-	-
3	Standard Plate Count *	IS 1622: 1981 RA :2019	250	Cfu/mL	-	-
4	Faecal streptococci *	IS 1622: 1981 RA :2019	Absent	100mL	-	-
<b>Chemical Test</b>						
5	Colour	IS 3025 (Part 4): 1983 RA : 2017	Less than 1.0	Hazen	5 Max	15 Max
6	Odour	IS 3025 (Part 5): 2018	Agreeable	--	Agreeable	Agreeable
7	Turbidity	IS 3025 (Part 10):1984 RA: 2017	Less than 0.1	NTU	1 Max	5 Max
8	pH @ 25°C	IS 3025 (Part 11): 1983RA :2017	6.74	--	6.5-8.5	No relaxation
9	Taste	IS 3025 (Part 8): 1984 RA : 2017	Agreeable	--	Agreeable	Agreeable
10	Total Dissolved Solids @180°C	IS 3025 (Part 16): 1984RA :2017	112	mg/L	500 Max	2000 Max

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E. PRITHIVIRAJAN  
LAB MANAGER

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## TEST REPORT

Report No : EN23080362

Report Date : 22 Aug 2023

Sl.No	Test Name	Test Method	Results	Units	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible Limit in the absence of alternative source
11	Ammonia (as Total ammonia -N)	IS 3025 (Part 34): 1988 RA : 2014	BDL(DL:0.01)	mg/L	0.5 Max	No relaxation
12	Calcium as Ca	IS 3025 (Part 40): 1991 RA : 2014	BDL(DL:1.0)	mg/L	75 Max	200 Max
13	Chloride as Cl	IS 3025 (Part 32): 1988 RA : 2014	25	mg/L	250 Max	1000 Max
14	Fluoride as F	IS 3025 (Part 60): 2008 RA : 2013	BDL(DL:0.1)	mg/L	1.0 Max	1.5 Max
15	Iron as Fe	IS 3025 (Part 53): 2003 RA : 2014	BDL(DL:0.05)	mg/L	1.0 Max	No relaxation
16	Magnesium as Mg	IS 3025 (Part 46): 1994 RA : 2014	BDL(DL:0.5)	mg/L	30 Max	100 Max
17	Nitrate as N	IS 3025 (Part 34): 1988 RA : 2014	BDL(DL:1.0)	mg/L	45 Max	No relaxation
18	Nitrite as No <sub>2</sub>	IS 3025 (Part 34): 1988 RA : 2014	BDL(DL:0.01)	mg/L	-	-
19	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 RA : 2014	1.30	mg/L	200 Max	400 Max
20	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 1986 RA : 2014	7.50	mg/L	200 Max	600 Max
21	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 23): 2009 RA:2014	4.40	mg/L	200 Max	600 Max
22	Appearance	APHA 23rd Edition Part 2110: 2017	Clear	-	-	-
23	Conductivity @ 25°C	IS 3025 (Part 14): 1984 RA : 2013	196	µS/cm	-	-
24	Sodium as Na	APHA 23rd Edition Part 3500 - Na B : 2017	11.60	mg/L	-	-
25	Potassium as K	APHA 23rd Edition Part 3500 - K B: 2017	BDL(DL:1.0)	mg/L	-	-
26	Phosphate as PO <sub>4</sub> *	APHA 23rd Edition Part 4500 P D: 2017	BDL(DL:0.05)	mg/L	-	-
27	Manganese as Mn	IS 3025 (Part 65): 2014	BLQ(LOQ:0.002)	mg/L	0.1 Max	0.3 Max

Remarks : The above mentioned water sample conforms to the requirements of Acceptable Limits as per IS 10500:2012 for the above tested parameters. \* Parameter not covered under NABL scope.

Note: BDL-Below Detection Limit, DL- Detection Limit  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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

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E. PRITHIVIRAJAN  
LAB MANAGER

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## TEST REPORT

ULR No : TC858223000004729P

Report No : EN23060610 Report Date : 26 June 2023  
Customer Name : Dalmia Bharat Green Vision Limited  
Customer Address : Meenakshi Cement Works, P.No. 66/3A, 3B, Mulliseval Village, Uppathur Main Road, Near Nalli Railway station, Sattur Taluk, Virudhunagar District. 626205  
Sample Name : Water  
Sample Description : Drinking Water  
Sample No : EN23060610  
Sampling Location : Drinking Water Sampling Date : 16 June 2023  
Sample Condition : Good Sample Received on : 19 June 2023  
Sample Quantity : 2 Litre Test Started on : 20 June 2023  
Sampling Plan & Method : GL/EN/SOP/001 & 003, GL/EN/SOP/06 Test Completed on : 26 June 2023  
Sample Submission Type : Collected By Lab Representative

### Test Results

Sl.No	Test Name	Test Method	Results	Units	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible Limit in the absence of alternative source
<b>MICROBIOLOGICAL ANALYSIS</b>						
1	Total coliforms	IS 1622: 1981 RA :2019	Absent	100mL	Absent/100mL	
2	Faecal coliform *	IS 1622: 1981 RA :2019	Absent	100mL	-	-
3	Standard Plate Count *	IS 1622: 1981 RA :2019	250	Cfu/mL	-	-
4	Faecal streptococci *	IS 1622: 1981 RA :2019	Absent	100mL	-	-
<b>Chemical Test</b>						
5	Colour	IS 3025 (Part 4): 1983 RA : 2017	Less than 1.0	Hazen	5 Max	15 Max
6	Odour	IS 3025 (Part 5): 2018	Agreeable	--	Agreeable	Agreeable
7	Turbidity	IS 3025 (Part 10):1984 RA: 2017	Less than 0.1	NTU	1 Max	5 Max
8	pH @ 25°C	IS 3025 (Part 11): 1983RA :2017	6.63	--	6.5-8.5	No relaxation
9	Taste	IS 3025 (Part 8): 1984 RA : 2017	Agreeable	--	Agreeable	Agreeable
10	Total Dissolved Solids @180°C	IS 3025 (Part 16): 1984RA :2017	32	mg/L	500 Max	2000 Max

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S. HARIHARA SUDHAN  
ASSISTANT MANAGER

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## TEST REPORT

Report No : EN23060610

Report Date : 26 June 2023

Sl.No	Test Name	Test Method	Results	Units	Requirement Limits as per IS 10500-2012	
					Acceptable Limit	Permissible Limit in the absence of alternative source
11	Ammonia (as Total ammonia -N)	IS 3025 (Part 34): 1988 RA : 2014	BDL(DL:0.01)	mg/L	0.5 Max	No relaxation
12	Calcium as Ca	IS 3025 (Part 40): 1991 RA : 2014	BDL(DL:1.0)	mg/L	75 Max	200 Max
13	Chloride as Cl	IS 3025 (Part 32): 1988 RA : 2014	5.87	mg/L	250 Max	1000 Max
14	Fluoride as F	IS 3025 (Part 60): 2008 RA : 2013	BDL(DL:0.1)	mg/L	1.0 Max	1.5 Max
15	Iron as Fe	IS 3025 (Part 53): 2003 RA : 2014	BDL(DL:0.05)	mg/L	1.0 Max	No relaxation
16	Magnesium as Mg	IS 3025 (Part 46): 1994 RA : 2014	BDL(DL:0.5)	mg/L	30 Max	100 Max
17	Nitrate as N	IS 3025 (Part 34): 1988 RA : 2014	BDL(DL:1.0)	mg/L	45 Max	No relaxation
18	Nitrite as No2	IS 3025 (Part 34): 1988 RA : 2014	BDL(DL:0.01)	mg/L	-	-
19	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 RA : 2014	3.89	mg/L	200 Max	400 Max
20	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 1986 RA : 2014	14.2	mg/L	200 Max	600 Max
21	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 23): 2009 RA:2014	3.96	mg/L	200 Max	600 Max
22	Appearance	APHA 23rd Edition Part 2110: 2017	Clear	-	-	-
23	Conductivity @ 25°C	IS 3025 (Part 14): 1984 RA : 2013	48.6	µS/cm	-	-
24	Sodium as Na	APHA 23rd Edition Part 3500 - Na B : 2017	8.33	mg/L	-	-
25	Potassium as K	APHA 23rd Edition Part 3500 - K B: 2017	BDL(DL:1.0)	mg/L	-	-
26	Phosphate as PO <sub>4</sub> *	APHA 23rd Edition Part 4500 P D: 2017	BDL(DL:0.05)	mg/L	-	-
27	Manganese as Mn	IS 3025 (Part 65): 2014	BLQ(LOQ:0.002)	mg/L	0.1 Max	0.3 Max

**Remarks :** The above mentioned water sample conforms to the requirements of Acceptable Limits as per IS 10500:2012 for the above tested parameters. \* Parameter not covered under NABL scope.

**Note:** BDL-Below Detection Limit, DL- Detection Limit  
BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

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# Dalmia Bharat Green Vision Limited

(Meenakshi Cement Works – Sattur)

P.No.66/3a,3b, Uppathar Main Road, Mulliseval, Nalli Railway Station,  
Sattur Taluk, Virudhunagar, Tamilnadu - 626205.

## CSR EXPENDITURE From 1<sup>st</sup> Apr 2023 – 30<sup>th</sup> Sep 2023

Sl.No	Operational Area	Expenditure
1	Promoting education, including special education and employment enhancing vocation skills especially among children, women, elderly, and the differently abled and livelihood enhancement projects Ongoing	5.00 Lakhs
2	Eradicating hunger, poverty and malnutrition, promoting health care including preventive health care and sanitation including contribution to the Swach Bharat Kosh set-up by the Central Government for the promotion of sanitation and making available safe drinking water Ongoing	3.50 Lakhs
3	Rural development projects	0.35 Lakhs
4	Ensuring environmental sustainability, ecological balance, protection of flora and fauna, animal welfare, agroforestry, conservation of natural resources and maintaining quality of soil, air and water Ongoing	3.50 Lakhs
	<b>Total</b>	<b>12.35 Lakhs</b>

### 1. Promoting Vocational Education in the CSR vicinity villages of Mulliseval, Muthusampuram, Uppathur and Odaipatti Panchayats (Ongoing)

- No. of beneficiaries impacted: 40 Nos
- No. of villages covered: 4

People from Mulliseval, Muthusampuram, Uppathur and Odaipatti villages are depended on daily labours and working in crackers and fire workers. The youngsters are get migrated to other cities of Tamilnadu and Kerala for labours.

To prevent the migration and ensure local job availability and sustainable business, DBGVL has supporting skill development trainings to the local youths between 18 to 25 years. For this, DBGVL is in the process of joining hands with district level ITI and skill development centers. On coming days it will be more effective and ensure sustainable income to the youths through the suitable trainings such as heavy vehicle driving, Computer literacy and Machinery operations and so on.,

The overall estimated budget is INR. 5.00 Lakhs.



2. Setting up of Mini Health Center in the Periyadaipatti Village in a joint venture with primary Health center, Uppathur.

- **No. of beneficiaries impacted: 80 Families**
- No. of villages covered: 2

People from Odaipatti such as Chinnaodaipatti and Periyadaipatti are located near to our DBGVL and they are dependent on PHC Uppathur and Sattur Government Hospital for health issues. The both places are 7 & 8KMs respectively.

The people are supposed to spend at least half an hour to 45 minutes of time to reach those health facilities. To prevent this and to support them with basic health facilities DBGVL has joined with PHC, Uppathur and planning to establish health facilities in the Periyadaipatti village to cover both Periyadaipatti and Chinnaodaipatti people. The project is ongoing. The health facility will be borne by DBGVL and PHC will support in terms of medical team and medicine.

The overall estimated budget is INR. **3.50 Lakhs.**

### 3. UPS support to Surveillance Room for ensure surveillance of 24x7 safety of the Sattur town.

- **No. of beneficiaries impacted: 80 Families**
- No. of villages covered: 2

On request of Police department from Sattur town DBGVL has provided support for the installation of a 1KVA UPS to ensure uninterrupted electricity supply to your CCTV vigilance room. The installation was completed on 12th May 2023. DBGVL believes that this will greatly enhance the effectiveness of surveillance system and contribute to the safety and security to the Sattur Town people.

DBGVL has spent the budget is INR. **0.40 Lakhs.**

### 4. Setting up and Maintenance of Mini (Dense Forest) at Uppathur

- **No. of Trees/Saplings Planted : 1029 Saplings**

To support environment sustainability and soil erosion and increase ground water level and support flora and fauna DBGVL has invested INR.3.50 lakhs to develop a dense forest with the size of 1 acre land at Uppathur village. All native suitable species has been planned according to suggestion by district forest department and TNPCB. The total plants are 1029. The work involves leveling the land, fixing of fencing, digging, manure filling, plantation, tripping system for continuous water supply and periodical maintenance such as cleaning and taken off the unwanted bushes are happening. For next three years these maintenance will be ensured by the CSR team of the DBGVL. Also, the Uppathur panchayat is extending the support in maintenance and cleaning through MGNREG workers.

DBGVL has spent the budget is INR. **3.50 Lakhs.**



# Miniforest Development at Uppathur Village



## Afforest Way...



# Miniforest Development at Uppathur Village



## Advantages

- Single Layered Greenery
- 1 Sapling in 6 ft distance
- 1 Acre : 1027 Saplings
- Self Sustainable model
- Occupy the Empty Space
- Varieties of Saplings in single place
- Maintaince Free
- 100% Organic, 'Zero' Pesticides Used
- Natural biodiversity
- 30 Times more CO2 absorption and Water Retention

