

Ref: VCL/USO/EHS/2022-23/07

Dated: 15/11/2023

To,

The Director,  
Ministry of Environment Forest & Climate Change  
Govt. of India, Integrated Regional Office,  
Guwahati, Assam.

**Subject:** Submission of Six-Monthly Compliance Report of the condition of environment clearance of M/S VCL Mines located at Umrongso Assam-788931.

Dear Sir,

With reference to the stipulations of Environment Clearance, please find enclosed herewith the Six-Monthly Compliance report for the period of 1<sup>st</sup> April 2023 to 30th September 2023 for VCL Mines, Umrongso. The compliance report will be uploaded in our company website [www.dalmiabharat.com](http://www.dalmiabharat.com) within 15 days.

Kindly acknowledge the receipt of the same.

Thanking you,

For Vinay Cement Limited.



(Authorized Signatory)

- CC to:
- 1) The Regional Executive Engineer,  
Regional Office, Silchar, Pollution Control Board, Assam.
  - 2) The Zonal Officer  
Central Pollution Control Board,  
Shillong, Meghalaya-793 014.
  - 3) SEIAA Guwahati

## Vinay Cement Limited

### Environmental Clearance - Half Yearly Compliance Report (April 23- September 2023)

Ref: SEIAA, Assam Environment Clearance F. No. SEIAA.536/2015/EC/65/366, dated 11<sup>th</sup> Jan., 2016.

### EC to Limestone Production (1.5 MTPA at Jamunanagar New Umrangshu village, Umrangshu tehsil, Dima Hasao District, Assam)

	Conditions	Compliance Status
<b>A</b>	<b><u>Specific Conditions</u></b>	
(1)	Reclamation of mines pit shall be done and demonstrated on the ground in course of time as per approved mines closure plan. No two pits shall be simultaneously worked i.e. before the first is exhausted and reclamation work completed, no mineral bearing area shall be worked.	<b>Complied with approved mining scheme/mine closure plan</b>
(2)	Need based assessment for the nearby village shall be conducted to study economic measure which can help in upliftment of poor section of the society. Income generation projects/ tools such as development of fodder farm etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating programs.	<ul style="list-style-type: none"> <li>• Complied. The CCIL plant and the mines share the same buffer area therefore a combined budget of 2.54 Crore was earmarked by the parent Company DCBL during Environmental Clearance for Various development activities in-line with the Need-Based Assessment &amp; participatory ruler appraisal</li> <li>• Expenditure incurred towards various social welfare measures is Rs. Two crore eighty four lakh fifty-six thousand up to September 2023.</li> <li>• The details of the activities undertaken are given in <b>Annexure I</b>.</li> </ul>
(3)	Action plan for economic upliftment of the people residing nearby the mining area as well as cement plant shall be formulated & implemented and status of implementation shall be reported to the SEIAA, Assam.	<ul style="list-style-type: none"> <li>• Action plan was already submitted along with the previous compliance report and final EIA/EMP. The status of implementation during this compliance period is given in <b>Annexure I</b>.</li> </ul>
(4)	Land use pattern of the mine lease	Complied with final EIA report and mining plan.

	area shall be complied as mentioned in final EIA report.	
(5)	Maintenance of roads through which transportation of ores are undertaken shall be carried out by the company regularly at its own expenses.	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>Rupees Ten lakh ninety-three thousand only has been incurred towards the mine's haul road maintenance from April 2023-September 2023.</li> </ul>
(6)	Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to SEIAA, Assam & Regional Office of Ministry within six months and thereafter every year from the next consequent year.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>Rain water is diverted to the settling pond by garland drains in the lower slopes of the quarry and OB dump.</li> <li>Part of the water is utilized for plantation, dust suppression etc.</li> <li>Balance water, free from suspended particles, is allowed to flow outside lease area.</li> </ul>
(7)	Ground water in the core zone shall be regularly monitored for depletion and contamination due to mining activity and mitigation measure shall be undertaken to prevent adverse impacts.	<ul style="list-style-type: none"> <li>Groundwater is not used for mining activities. Monitoring of groundwater in the core zone is not possible because of the terrain of the mine. The mine is located on a gently sloping terrain, which is about 272-456 m. The groundwater table will not be intersected as it occurs at a depth of 60 to 80m below general ground level. Mining activities will be confined to the hill slope and no groundwater contamination is anticipated.</li> </ul>
(8)	Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or others suitable materials and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>Precautionary measures like retaining wall, garland drains along with settling tanks/check filters are already constructed and will be maintained at the base of the quarry/ dump.</li> <li>Suitable native trees are planted on the bench slopes of the dump for stabilization.</li> </ul>
(9)	Trenches/garland drain shall be constructed at foot of dumps and appropriate filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate numbers of check dams and gully plugs shall be constructed across seasonal/ perennial nallaha	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>Garland drains with sedimentation pits all along the mine pit and OB dumps have been constructed and being maintained. A check dam is constructed at the discharge end of garland drains.</li> <li>Sump capacity has been so designed so as to provide an adequate retention period to</li> </ul>

	(if any) flowing through the ML area to arrest silts. De-silting at regular intervals shall be carried out. Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rain fall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper setting of silt material. Sedimentation pits shall be constructed at the corner of the garland drain and de-silted at regular intervals.	allow proper setting of silt material. Sedimentation pits have been constructed at the corner of the garland drain and de-silted at regular intervals.
(10)	Water to be supplied for drinking purpose shall be treated to meet the prescribed standards. Monitoring of water quality for drinking shall undertaken specially for fluoride & arsenic and records maintained.	<b>Complied</b> <ul style="list-style-type: none"> <li>• Drinking water is being treated by advanced Reverse Osmosis Technology (RO) and records of the quality of water are maintained.</li> <li>• As advised, monitoring of drinking water quality after RO treatment has been undertaken and the report is attached as an <b>Annexure II</b></li> </ul>
(11)	Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV and health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a doctor for occupational health & safety. Periodic monitoring shall be conducted for exposure to respirable mineral dust on the workers.	<b>Complied</b> <ul style="list-style-type: none"> <li>• Occupational Health and safety measures have been adopted as prescribed in EIA/EMP and Mining Scheme. Occupational health Surveillance program is being conducted periodically. A full fledge dispensary along with a resident doctor is available. The health checkup report is attached as <b>Annexure-III</b>.</li> </ul>
(12)	Top soil/solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling for reclamation and rehabilitation of mined out area, if any.	<ul style="list-style-type: none"> <li>• There is no topsoil generation.</li> <li>• Solid waste generated are stacked in line with the approved mining plan. Retaining walls and garland drains with a settling tank has been built and maintained regularly.</li> </ul>
(13)	Over burden shall be stacked at earmarked dump sites only and shall not be kept active for long period.	<b>Complied.</b> <ul style="list-style-type: none"> <li>• Dumping is being done at earmarked area as</li> </ul>

	The maximum height of the dump shall not exceed 30 meter, each stage shall preferably be of 10 meter and overall slope of the dump shall not exceed 28°. The OB dump shall be backfilled. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface ran off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the SEIAA, Assam.	per approved mining plan only. Dump height and slope are being maintained as per norms/ IBM approved mining plan. The existing OB dumps are still in active condition and the vegetation will be done after discontinuation of dumping of OB.				
(14)	There shall be no external overburden dump outside the mining area.	<b>Complied</b> No external dump outside lease area.				
(15)	Haul road width shall be minimum 15 meters.	<b>Complied</b>				
(16)	Slopes of the mining bench and ultimate pit limited shall be as per the mining scheme approved by Indian Bureau of Mines.	<b>Complied</b>				
(17)	Drilling shall be conducted by using dust extractors / wet drilling. Controlled blasting shall be undertaken.	<b>Complied</b>				
(18)	Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultant with the local DFO. Herbs and shrubs shall also form a part of afforestation program besides tree plantation. The density of the trees shall be maintained as per norms. The company shall involve local people with the help of self-group for plantation program if possible.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>Green belt development is being carried out with due consultation of local DFO.</li> <li>Total 7.83 ha area is under plantation at the end of mid finance year up to September'2023 within lease area. However from April to September 23 plantation is done in the 0.53 ha. Details of the plantation within &amp; outside the ML is as below:</li> </ul> <table border="1" data-bbox="737 1671 1401 2004"> <tr> <td>Afforestation within lease area (Ha/ No. of Plants)</td> <td>WML: 650 saplings (0.33 Ha) with 85.69% of survival rate.</td> </tr> <tr> <td>Afforestation outside ML (Ha/ No. of plants)</td> <td>400 saplings (0.2 Ha) with 84.75% of</td> </tr> </table>	Afforestation within lease area (Ha/ No. of Plants)	WML: 650 saplings (0.33 Ha) with 85.69% of survival rate.	Afforestation outside ML (Ha/ No. of plants)	400 saplings (0.2 Ha) with 84.75% of
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			survival rate.
(19)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction new piezometric well during the mining operation. The monitoring shall be carried out four times in a year-pre monsoon, monsoon, post monsoon and winter and the data thus collected shall be regular sent to SEIAA Assam, Regional office MoEF, Shillong and Central Ground Water Board.	<ul style="list-style-type: none"> <li>• Ground water is not being used for the mining activities. Monitoring of ground water in the core zone is not possible because of the terrain of the mine. The mine is located on a gently sloping terrain, which is about 272-456 m. Ground water table will not be intersected as it occurs at a depth of 60 to 80m below general ground level. Mining activities will be confined in the hill slope and no ground water contamination is anticipated</li> <li>• There is no regular well in the District Dima Hasao as per the Central Ground Water Board. Further, we have developed 2 water tanks in near by villages for collection of spring water. Monitoring report of well in buffer zone is attached as <b>Annexure_IV</b>.</li> </ul>	
(20)	The waste water from the mines shall be treated to conform to the prescribe standards before discharging in to the natural stream. The discharged water from the tailing Dam (if any) shall be regularly monitored and report submitted to the SEIAA. Assam and the State Pollution Control Board.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>• During Mining Operation, Waste water generated from the mine work shop is treated for separation of oil &amp; grease and treated effluent is used for green belt.</li> <li>• Mines office sewage water is diverted to Septic tank followed by soak pit.</li> </ul>	
(21)	Other statutory permission from the competent authority shall be obtained and copy of the same shall be submitted to SEIAA, Assam.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>• Consent to Establish for the proposed expansion is accorded by SPCB, Assam vide letter no WB/SLC/T-685/15-16/650/1420 dated Guwahati, 7<sup>th</sup> March 2016 and Consent to Operate accorded vide letter no WB/SLC/T-685/15-16/600 dated Guwahati, 30<sup>TH</sup> Jan 2023 which is valid up to 31<sup>st</sup> March 2024. Copy of the Consent to Operate is enclosed as <b>Annexure V</b></li> </ul>	
(22)	Vehicular emission shall be kept under control and regularly monitored. Vehicles used for the transportation of ores and other shall have valid permission as prescribed under Central Motor Vehicles Rules, 1989 and its amendments. The vehicles	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>• Vehicular Emissions is controlled and monitored. PUC certified Vehicles are used for transportation. Before loading of the mineral, water is sprayed to avoid dust emission. Mineral is being transported to the crusher from the ML in dump trucks.</li> </ul>	

	transporting ores shall be covered with a tarpaulin or other suitable enclosures so that no dust particles/fine matters escape during the course of transportation. No overloading of ores for transportation shall be committed.	Crushed limestone is being transported to plant from crusher through closed conveyor belt system. No overloading is done. Crusher is equipped with dry fog system for control of dust particles/fine matters.
(23)	Action plan with respect to suggestion / improvement and recommendations made during public consultation / hearing shall be adhered properly by SEIAA, Assam.	<ul style="list-style-type: none"> <li>Action plan with respect to suggestion / improvement and recommendations made during public consultation / hearing has been submitted to the SEIAA in EIA/EMP during appraisal of the project for EC and the same is being implemented in phase manner as per the submitted plan.</li> <li>The status of implementation is given in <b>Annexure VI</b></li> </ul>
(24)	A final mine closure plan along with details of Corpus fund shall be submitted to the SEIAA, Assam 2 years in advance of final mine closure for approval.	<b>Noted for compliance</b> Shall be submitted prior to closure of mines
<b>B</b>	<b><u>General Conditions</u></b>	
(1)	No change in mines technology and scope of working shall be made without prior approval of the SEIAA, Assam.	<b>Complied</b>
(2)	No change in the calendar plan including excavation, quantum of mineral and waste shall be made.	<b>Complied</b>
(3)	Four ambient air quality- monitoring stations shall be established in the core zone as well as in the buffer zone for PM2.5, PM10, SO2, NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical feature and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the state Pollution Control Board.	<b>Complied</b> <ul style="list-style-type: none"> <li>We have already installed a continuous online ambient air quality monitoring system in the buffer zone in colony and it is connected to the SPCB/CPCB server. We have also carried out Ambient air quality monitoring by third party (NABL accredited laboratory) additionally at three locations as Per NAAQ standard (<b>Annexure -VII</b>)</li> </ul>
(4)	Data on ambient air quality (PM2.5, PM10, SO2, NOx) should be regularly submitted to the SEIAA, Assam & Regional office, MoEF at Shillong and the State Pollution Control Board/Central Pollution Control	<b>Complied</b> Data on Ambient air quality is attached as <b>Annexure- VII</b>

	once in six months.	
(5)	Fugitive dust emission from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>Measures prescribed in EIA/EMP and Mining scheme have already been adopted and will be continuous to control the fugitive emission. At present Regular water sprinkling is being carried out on haul road, loading and unloading and at transfer points.</li> </ul>
(6)	Measure shall be taken for control of noise levels below 85dBA in the work environment. Workers engaged in mining operation etc. Shall be provided with ear plugs/muffs.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>Necessary PPE's are provided to the workers. Machineries deployed are provided with suitable mechanism for reducing noise.</li> </ul>
(7)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 199 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>During Mining Operation, Waste water generated from the mine work shop is treated for separation of oil &amp; Grease and treated effluent is used for green belt and for spraying.</li> </ul>
(8)	STP shall be installed for the colony. ETP shall also be provided for workshop & mineral separation plant waste water.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>STP installed for the colony.</li> <li>Waste water generated from the work shop is treated for separation of oil &amp; grease and treated effluent is used for green belt and for spraying.</li> <li>Mines office sewage water is diverted in to Septic tank followed by soak pit.</li> </ul>
(9)	Blasting operation shall be carried out only during daytime.	<b>Complied</b>
(10)	Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.	<b>Complied</b>
(11)	A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a senior executive, who will report directly to the Head of the Organization.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>Since the plant &amp; mine are in same area hence one common Environmental Cell is established at the plant for looking after all the environmental matters of plant and mine.</li> </ul>



		<ul style="list-style-type: none"> <li>The Environmental Cell is under the control of Sr. Executive reporting directly to the Unit Head.</li> </ul>
(12)	The project authorities shall inform to the SEIAA, Assam & Regional office of the Ministry located at Shillong regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	<p><b>Complied</b></p> <p>The financial closure of the project is Feb 16 and land development work started in March 16.</p>
(13)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the SEIAA, Assam and its Regional office, MoEF, Shillong.	<p><b>Complied</b></p> <p>Funds of Rs. 6.50 Lakhs was earmarked for Environmental protection measures up to Sept 23. (Amount only including RRM work)</p>
(14)	The project authorities shall inform to the SEIAA, Assam regarding date of financial closure and final approval of the project.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>The financial closure of the project is Feb 16 and consent to operate has been obtained on 2nd March, 2021.</li> </ul>
(15)	The SEIAA, Assam & the Regional office MoEF at Shillong shall compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officers of the SEIAA, Assam/Regional office by furnishing the requisite data/information/monitoring reports.	<p><b>Noted for extending necessary Cooperation</b></p>
(16)	A copy of the E.C. issued by SEIAA, Assam shall be displayed by the project proponent in their website as well as respective D.C. office for 30 days.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>It is available on the parent company's website and the link of the same is as below: <a href="https://www.dalmiabharat.com/index62ee.html?act=cms-page&amp;cat_id=16&amp;id=83">https://www.dalmiabharat.com/index62ee.html?act=cms-page&amp;cat_id=16&amp;id=83</a></li> </ul>
(17)	The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accord environmental clearance.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>It was advertised on 18.01.2016 in two newspapers which are: - Assam Tribune &amp; Eastern Chronicles (English lang.) and Dainik Assam (Assamese lang.) and the same was submitted along with First Half Yearly Compliance Report after obtaining EC for expansion.</li> </ul>

(18)	The SEIAA, Assam may alter/ modify the above conditions or stipulate any further condition in the interest of environment protection.	<b>Noted</b>
(19)	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provision of Environment Protection Act, 1986.	<b>Noted</b>
(20)	The above conditions will be enforced inter-alia under the provision of water (Prevention & Control of Pollution) Act 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment Protection Act 1986 and the Public Liability Insurance Act, 1991 along with their amendments & rules.	<b>Noted</b>

Activity wise expenditure detail of plant EC commitment					
SL No	Activity	Location	Expenditure (Lakh)	Year of execution	Remarks
1	Bamboo plantation	Borolobang, Mirphung, Chotolobang, Rongmepi	16.4	2022	Completed
	Plantation and beautification of school campus	SVM and Garampani Govt. High school	9.66	2022	Completed
	Community Hall Construction	Kamala Bagan	18.96	2022	Completed
	Sports gallery construction	Dithur playground	11.93	2022	Completed
	Boundary wall construction of school	Umrangso 19 KM L P school	13.23	2022	Completed
	Mid-day meal cooking house	Umrangso 19 KM L P school	12.23	2022	Completed
	Construction of spring water storage tank	Amramlangso & New Borolarpheng	12.62	2022	Completed
	Water Tanker for community service	Near by village	26.95	2022	Completed
	Village road development	Umrangso 19 KM to Hanjanglangso	19.5	2022	Completed
	Solar Street installation	Langcherui, Hanjanglangso, Dithur	2.5	2022	Completed
	Skill training for local youths	Nagaon ITI	7.14	2022	Completed
	Ring well construction- 6 Nos	Langcherui, Hanjanglangso, Borolokhindong, Thrvelangso, Khrongma	7.2	2022	Completed
	Bamboo plantation	Dorbinsip, Kekrangsip, Waridiplai, Nobodi Longukro, Sibraidisa, Chotolangfer	23.1	2023	Completed
	Plantation and beautification of school campus	Dimarazi school, Rongbonhom school, Karbi club, Umrangso 19 KM school and playground	9.66	2023	Completed
	Community Hall Construction	Umrangso 19 KM	23.83	2023	PR raised, awaitng for PO
	Boundary wall at Thongnokbe school	Langmeklu	19.96	2023	PR raised, awaitng for PO
	Vision document preparation	Near by village	7.8	2022	Completed
Total Expenditure			242.67		

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Rev. No.: 00

**DRINKING WATER TEST REPORT**

ULR No.	NA		
Report No.	ENV/TR/DCNEL/DMH/23-24/DW-03	Issue Date	27/09/2023
Order No.	4556001700/236	Order Date	09/09/2023
Report Issued To	DALMIA CEMENT (NORTH EAST) LIMITED Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

Sample Ref. No.:	DCNEL/2023/DW-1509/03	Sample Source:	RO Outlet/Security Main Gate	Sample Type:	Drinking Water
Date of Sampling:	15.09.2023	Sample Receipt Date:	16.09.2023	Sample Quantity:	2 L
Analysis Start Date:	19.09.2023	Analysis End Date:	25.09.2023	Sampled By:	Bidyut Kalita, Envirocon

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour	IS 3025 (Part 4)	1	PCU	5	15
2.	Odour	IS 3025 (Part 05)	Odourless	-	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 07)	Tasteless	-	Agreeable	Agreeable
4.	Turbidity	IS 3025 (Part 10)	0.02	NTU	1	5
5.	pH	IS 3025 (Part 11)	6.69	-	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids	IS 3025 (Part 16)	42	mg/l	500	2000
7.	Aluminium (as Al)	IS 3025 (Part 55)	BDL[MDL:0.001]	mg/l	0.03	0.2
8.	Boron (as B)	IS 3025 (Part 57)	BDL[MDL:0.001]	mg/l	0.5	1.0
9.	Calcium (as Ca)	IS 3025 (Part 40)	4	mg/l	75	200
10.	Chloride (as Cl)	IS 3025 (Part 32)	2.3	mg/l	250	1000
11.	Copper (as Cu)	IS 3025 (Part 42)	BDL[MDL:0.001]	mg/l	0.05	1.5
12.	Fluorides (as F)	IS 3025 (Part 60)	BDL[MDL:0.01]	mg/l	1.0	1.5
13.	Free Residual Chlorine	IS 3025 (Part 26)	BDL[MDL:0.01]	mg/l	0.2	1
14.	Iron (as Fe)	IS 3025 (Part 53)	BDL[MDL:0.001]	mg/l	0.3	No Relaxation
15.	Magnesium (as Mg)	IS 3025 (Part 46)	BDL[MDL:1.0]	mg/l	30	100
16.	Manganese (as Mn)	IS 3025 (Part 59)	BDL[MDL:0.001]	mg/l	0.1	0.3
17.	Zinc (as Zn)	IS 3025 (Part 49)	BDL[MDL:0.01]	mg/l	5.0	15
18.	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34)	BDL[MDL:0.1]	mg/l	45	No Relaxation
19.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43)	BDL[MDL:0.001]	mg/l	0.001	0.002
20.	Sulfate (as SO <sub>4</sub> )	IS 3025 (Part 24)	BDL[MDL:1.0]	mg/l	200	400

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

\* Limits as per IS 10500:2012



Authorised Signatory: Mr. Pankaj Baroi (Director)

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**NOTE:** 1. Results reported are valid at the time of and under the prevailing conditions of measurement.  
2. Results refer only to the particular parameters tested.  
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Format No.: ENV/R/TR/19/DW-01

Rev. No.: 00

**DRINKING WATER TEST REPORT**

ULR No.	NA		
Report No.	ENV/TR/DCNEL/DMH/23-24/DW-03	Issue Date	27/09/2023
Order No.	4556001700/236	Order Date	09/09/2023
Report Issued To	DALMIA CEMENT (NORTH EAST) LIMITED Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO <sub>3</sub> )	IS 3025 (Part 23)	48	mg/l	200	600
22.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	3.9	mg/l	200	600
23.	Cadmium (as Cd)	IS 3025 (Part 41)	BDL[MDL:0.001]	mg/l	0.003	No Relaxation
24.	Cyanide (as CN)	IS 3025 (Part 27)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
25.	Lead (Pb)	IS 3025 (Part 47)	BDL[MDL:0.001]	mg/l	0.01	No Relaxation
26.	Mercury (Hg)	IS 3025 (Part 48)	BDL[MDL:0.001]	mg/l	0.001	No Relaxation
27.	Nickel (as Ni)	IS 3025 (Part 54)	BDL[MDL:0.001]	mg/l	0.02	No Relaxation
28.	Total Arsenic (as As)	IS 3025 (Part 37)	BDL[MDL:0.001]	mg/l	0.01	0.05
29.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
30.	Total Coliform Bacteria	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent
31.	E. Coli	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

\* Limits as per IS 10500:2012

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



Authorised Signatory: Mr. Pankaj Baroi (Director)

Page 2 of 2

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Format No.: ENV/R/TR/19/DW-01

Rev. No.: 00

**DRINKING WATER TEST REPORT**

<b>ULR No.</b>	NA		
<b>Report No.</b>	ENV/TR/DCNEL/DMH/23-24/DW-02	<b>Issue Date</b>	27/09/2023
<b>Order No.</b>	4556001700/236	<b>Order Date</b>	09/09/2023
<b>Report Issued To</b>	DALMIA CEMENT (NORTH EAST) LIMITED Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

<b>Sample Ref. No.:</b>	DCNEL/2023/DW-1509/02	<b>Sample Source:</b>	RO Outlet/Down Colony	<b>Sample Type:</b>	Drinking Water
<b>Date of Sampling:</b>	15.09.2023	<b>Sample Receipt Date:</b>	16.09.2023	<b>Sample Quantity:</b>	2 L
<b>Analysis Start Date:</b>	19.09.2023	<b>Analysis End Date:</b>	25.09.2023	<b>Sampled By:</b>	Bidyut Kalita, Envirocon

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour	IS 3025 (Part 4)	1	PCU	5	15
2.	Odour	IS 3025 (Part 05)	Odourless	-	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 07)	Tasteless	-	Agreeable	Agreeable
4.	Turbidity	IS 3025 (Part 10)	BDL[MDL:0.01]	NTU	1	5
5.	pH	IS 3025 (Part 11)	6.75	-	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids	IS 3025 (Part 16)	48	mg/l	500	2000
7.	Aluminium (as Al)	IS 3025 (Part 55)	BDL[MDL:0.001]	mg/l	0.03	0.2
8.	Boron (as B)	IS 3025 (Part 57)	BDL[MDL:0.001]	mg/l	0.5	1.0
9.	Calcium (as Ca)	IS 3025 (Part 40)	6	mg/l	75	200
10.	Chloride (as Cl)	IS 3025 (Part 32)	1.9	mg/l	250	1000
11.	Copper (as Cu)	IS 3025 (Part 42)	BDL[MDL:0.001]	mg/l	0.05	1.5
12.	Fluorides (as F)	IS 3025 (Part 60)	BDL[MDL:0.01]	mg/l	1.0	1.5
13.	Free Residual Chlorine	IS 3025 (Part 26)	BDL[MDL:0.01]	mg/l	0.2	1
14.	Iron (as Fe)	IS 3025 (Part 53)	BDL[MDL:0.001]	mg/l	0.3	No Relaxation
15.	Magnesium (as Mg)	IS 3025 (Part 46)	BDL[MDL:1.0]	mg/l	30	100
16.	Manganese (as Mn)	IS 3025 (Part 59)	BDL[MDL:0.001]	mg/l	0.1	0.3
17.	Zinc (as Zn)	IS 3025 (Part 49)	BDL[MDL:0.01]	mg/l	5.0	15
18.	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34)	BDL[MDL:0.1]	mg/l	45	No Relaxation
19.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43)	BDL[MDL:0.001]	mg/l	0.001	0.002
20.	Sulfate (as SO <sub>4</sub> )	IS 3025 (Part 24)	BDL[MDL:1.0]	mg/l	200	400

NA: Not Applicable, **BDL**: Below Detectable Limit, **MDL**: Minimum Detectable Limit

\* Limits as per IS 10500:2012



Authorised Signatory: Mr. Pankaj Baroi (Director)

Page 1 of 2

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**DRINKING WATER TEST REPORT**

ULR No.	NA		
Report No.	ENV/TR/DCNEL/DMH/23-24/DW-02	Issue Date	27/09/2023
Order No.	4556001700/236	Order Date	09/09/2023
Report Issued To	DALMIA CEMENT (NORTH EAST) LIMITED Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO <sub>3</sub> )	IS 3025 (Part 23)	42	mg/l	200	600
22.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	4.6	mg/l	200	600
23.	Cadmium (as Cd)	IS 3025 (Part 41)	BDL[MDL:0.001]	mg/l	0.003	No Relaxation
24.	Cyanide (as CN)	IS 3025 (Part 27)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
25.	Lead (Pb)	IS 3025 (Part 47)	BDL[MDL:0.001]	mg/l	0.01	No Relaxation
26.	Mercury (Hg)	IS 3025 (Part 48)	BDL[MDL:0.001]	mg/l	0.001	No Relaxation
27.	Nickel (as Ni)	IS 3025 (Part 54)	BDL[MDL:0.001]	mg/l	0.02	No Relaxation
28.	Total Arsenic (as As)	IS 3025 (Part 37)	BDL[MDL:0.001]	mg/l	0.01	0.05
29.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
30.	Total Coliform Bacteria	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent
31.	E. Coli	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

\* Limits as per IS 10500:2012

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



Authorised Signatory: Mr. Pankaj Baroi (Director)

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**DRINKING WATER TEST REPORT**

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<b>Report No.</b>	ENV/TR/DCNEL/DMH/23-24/DW-01	<b>Issue Date</b>	27/09/2023
<b>Order No.</b>	4556001700/236	<b>Order Date</b>	09/09/2023
<b>Report Issued To</b>	DALMIA CEMENT (NORTH EAST) LIMITED Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

<b>Sample Ref. No.:</b>	DCNEL/2023/DW-1509/01	<b>Sample Source:</b>	RO Outlet/CCR Building	<b>Sample Type:</b>	Drinking Water
<b>Date of Sampling:</b>	15.09.2023	<b>Sample Receipt Date:</b>	16.09.2023	<b>Sample Quantity:</b>	2 L
<b>Analysis Start Date:</b>	19.09.2023	<b>Analysis End Date:</b>	25.09.2023	<b>Sampled By:</b>	Bidyut Kalita, Envirocon

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour	IS 3025 (Part 4)	1	PCU	5	15
2.	Odour	IS 3025 (Part 05)	Odourless	-	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 07)	Tasteless	-	Agreeable	Agreeable
4.	Turbidity	IS 3025 (Part 10)	0.02	NTU	1	5
5.	pH	IS 3025 (Part 11)	6.71	-	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids	IS 3025 (Part 16)	52	mg/l	500	2000
7.	Aluminium (as Al)	IS 3025 (Part 55)	BDL[MDL:0.001]	mg/l	0.03	0.2
8.	Boron (as B)	IS 3025 (Part 57)	BDL[MDL:0.001]	mg/l	0.5	1.0
9.	Calcium (as Ca)	IS 3025 (Part 40)	5	mg/l	75	200
10.	Chloride (as Cl)	IS 3025 (Part 32)	2.1	mg/l	250	1000
11.	Copper (as Cu)	IS 3025 (Part 42)	BDL[MDL:0.001]	mg/l	0.05	1.5
12.	Fluorides (as F)	IS 3025 (Part 60)	BDL[MDL:0.01]	mg/l	1.0	1.5
13.	Free Residual Chlorine	IS 3025 (Part 26)	BDL[MDL:0.01]	mg/l	0.2	1
14.	Iron (as Fe)	IS 3025 (Part 53)	BDL[MDL:0.001]	mg/l	0.3	No Relaxation
15.	Magnesium (as Mg)	IS 3025 (Part 46)	BDL[MDL:1.0]	mg/l	30	100
16.	Manganese (as Mn)	IS 3025 (Part 59)	BDL[MDL:0.001]	mg/l	0.1	0.3
17.	Zinc (as Zn)	IS 3025 (Part 49)	BDL[MDL:0.01]	mg/l	5.0	15
18.	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34)	BDL[MDL:0.1]	mg/l	45	No Relaxation
19.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43)	BDL[MDL:0.001]	mg/l	0.001	0.002
20.	Sulfate (as SO <sub>4</sub> )	IS 3025 (Part 24)	BDL[MDL:1.0]	mg/l	200	400

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

\* Limits as per IS 10500:2012



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Order No.	4556001700/236	Order Date	09/09/2023
Report Issued To	DALMIA CEMENT (NORTH EAST) LIMITED Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO <sub>3</sub> )	IS 3025 (Part 23)	38	mg/l	200	600
22.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	5.3	mg/l	200	600
23.	Cadmium (as Cd)	IS 3025 (Part 41)	BDL[MDL:0.001]	mg/l	0.003	No Relaxation
24.	Cyanide (as CN)	IS 3025 (Part 27)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
25.	Lead (Pb)	IS 3025 (Part 47)	BDL[MDL:0.001]	mg/l	0.01	No Relaxation
26.	Mercury (Hg)	IS 3025 (Part 48)	BDL[MDL:0.001]	mg/l	0.001	No Relaxation
27.	Nickel (as Ni)	IS 3025 (Part 54)	BDL[MDL:0.001]	mg/l	0.02	No Relaxation
28.	Total Arsenic (as As)	IS 3025 (Part 37)	BDL[MDL:0.001]	mg/l	0.01	0.05
29.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
30.	Total Coliform Bacteria	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent
31.	E. Coli	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

\* Limits as per IS 10500:2012

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



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# MEDICLINIC, A unit of Premier Healthcare

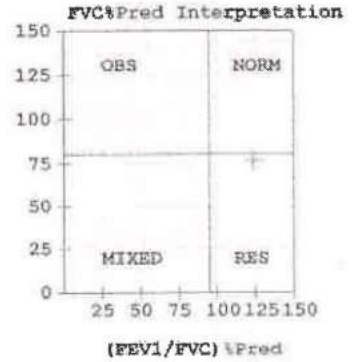
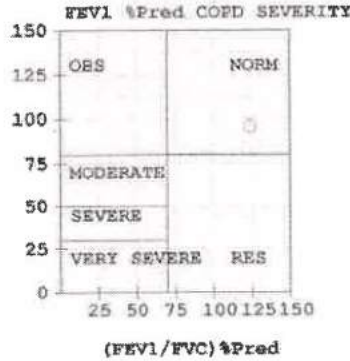
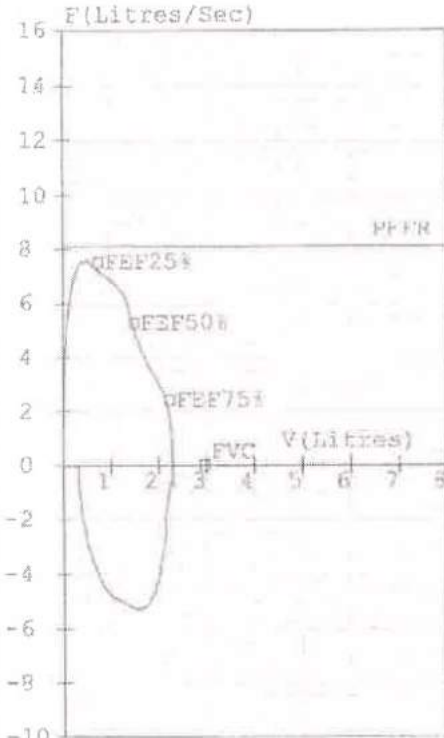
Chitrabon Enclave, 2nd Floor Opp Nexa Show Room, Zoo Road, Guwahati-03

Patient: MD JUBIR  
 Refd. By:  
 Pred. Eqns: RECORDERS  
 Date : 16-Oct-2023 11:40 AM

Age : 45 Yrs  
 Height : 162 Cms  
 Weight : 55 Kgs  
 ID : DC11

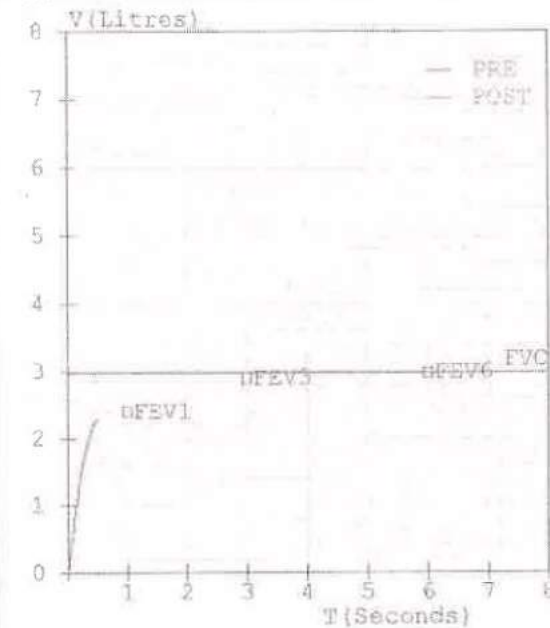
Gender : Male  
 Smoker : Yes  
 Eth. Corr: 100  
 Temp :

MEDICLINIC



### FVC Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	02.98	02.30	077	---	---	---
FEV1 (L)	02.40	02.30	096	---	---	---
FEV1/FVC (%)	80.54	100.00	124	---	---	---
FEF25-75 (L/s)	03.56	05.92	166	---	---	---
PEFR (L/s)	08.11	07.50	092	---	---	---
FIVC (L)	---	01.98	---	---	---	---
FEV.5 (L)	---	02.31	---	---	---	---
FEV3 (L)	02.89	02.30	080	---	---	---
PIFR (L/s)	---	05.25	---	---	---	---
FEF75-85 (L/s)	---	03.33	---	---	---	---
FEF.2-1.2 (L/s)	06.14	06.98	114	---	---	---
FEF 25% (L/s)	07.50	07.43	099	---	---	---
FEF 50% (L/s)	05.26	06.58	125	---	---	---
FEF 75% (L/s)	02.40	03.95	165	---	---	---
FEV.5/FVC (%)	---	100.43	---	---	---	---
FEV3/FVC (%)	96.98	100.00	103	---	---	---
FET (Sec)	---	00.50	---	---	---	---
ExptTime (Sec)	---	00.05	---	---	---	---
Lung Age (Yrs)	045	047	104	---	---	---
FEV6 (L)	02.98	---	---	---	---	---
FIF25% (L/s)	---	02.57	---	---	---	---
FIF50% (L/s)	---	05.23	---	---	---	---
FIF75% (L/s)	---	04.85	---	---	---	---



### Pre Test COPD Severity

Test within normal limits

### Pre Medication Report Indicates

Mild Restriction as (FEV1/FVC)%Pred >95 and FVC%Pred <80

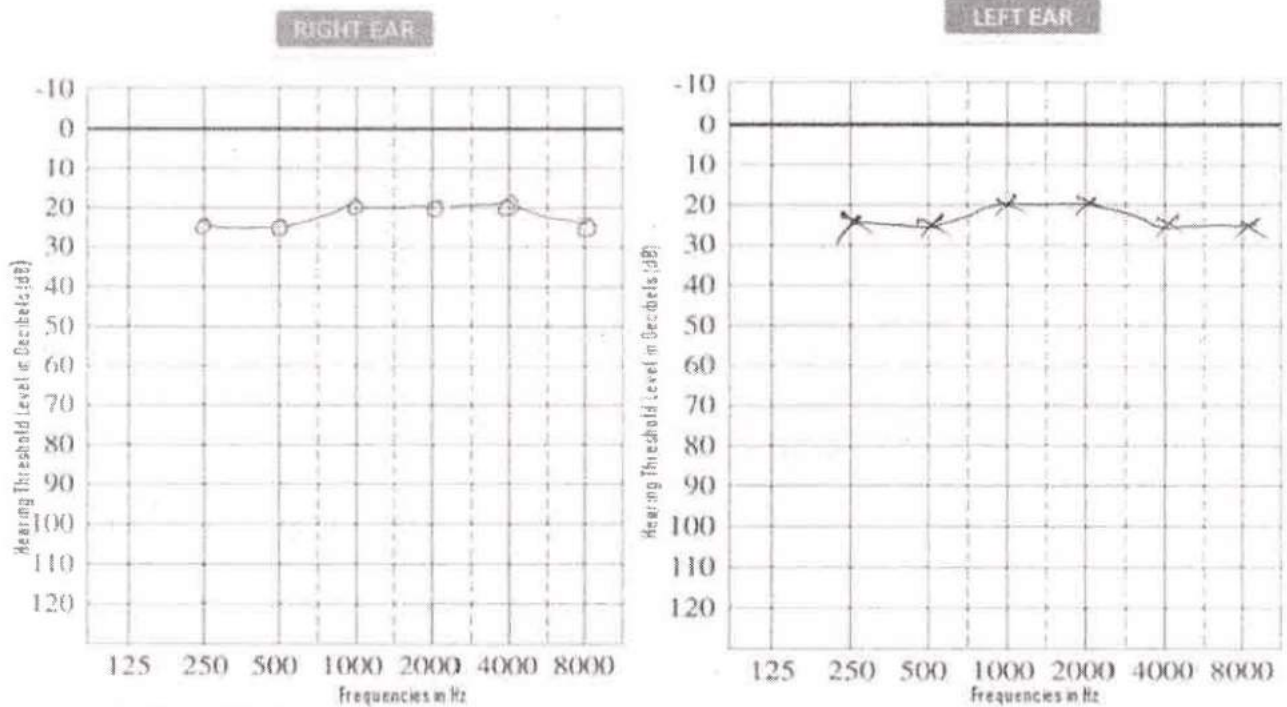
Chitrabon Enclave, Near Commerce College, Opposite NEXA, Zoo Road, Guwahati

Sl No: 11

Date: 16/10/23

Name: MD Jubir Age / Gender: 45/M

## AUDIOGRAM



### Audiogram Key

	AE Unmasked	AE Masked	BE Unmasked	BE Masked	No Response	Sound Field	ALed
Right Ear	O	/	<		Δ	S	A
Left Ear	X	/	<		Δ	S	A

### SPEECH AUDIOMETRY

	SRT	SDS	UCL
Right Ear	dBHL	%	dBHL
Left Ear	dBHL	%	dBHL

### TUNING FORK TEST

	Right Ear	Left Ear
WEBER		
RINNE		

## IMPRESSION

Bilateral hearing sensitivity within normal limits.

A Unit of Premier Healthcare

Jesif Choudhury  
Consultant Audiologist

For Doctors' Appointment & Test Bookings 7099044022 / 7099014433



Chitrabon Enclave, Near Commerce College, Opposite Nexa, Zoo Road, Guwahati. Tel: 7099044022

SI No: (11)

Date: 16/10/23

Name: Md. Jubin

Age / Gender: 45/M

### EYE EXAMINATION REPORT

**Vision Test:**

	Near	Distance	Color
Right	NS	6/6	Normal
Left	NS	6/6	Normal

**Vision Correction Advice:**

Regular use of spectacles.

Right Eye						Left Eye				
	SPH	CYL	AXIS	PRISM	V/A	SPH	CYL	AXIS	PRISM	VA
Distance										
Near										
Type	Bifocal / Progressive / Single Vision / Plano					Bifocal / Progressive / Single Vision / Plano				

Kuldip Mazumdar  
Consultant Ophthalmologist

Dr. Basajit Choudhury, MD.  
 FICC, FIAO, FCSI  
 Sr. Medicine & Non-Invasive Cardiology

<< Conclusions >>

Data for reference only:

2023-10-16 11:35:57  
 Name : MD JUBIR  
 Sex : Male Age : 45  
 Section: 30  
 RoomID:  
 BedID:  
 ID:  
 Operator:  
 Custom1:  
 Custom2:  
 Custom3:

bpm : 67  
 ms : 253  
 ms : 112  
 ms : 81  
 ms : 220  
 ms : 351/369  
 deg : 74.5/50.1/68.4  
 mV : 0.93/0.76  
 mV : 1.68

Cardiac electric axis normal.  
 1 AV block,  
 aVL V4 V5 V6 Abnormal T wave,  
 \*\*Report need physician confirm\*\*

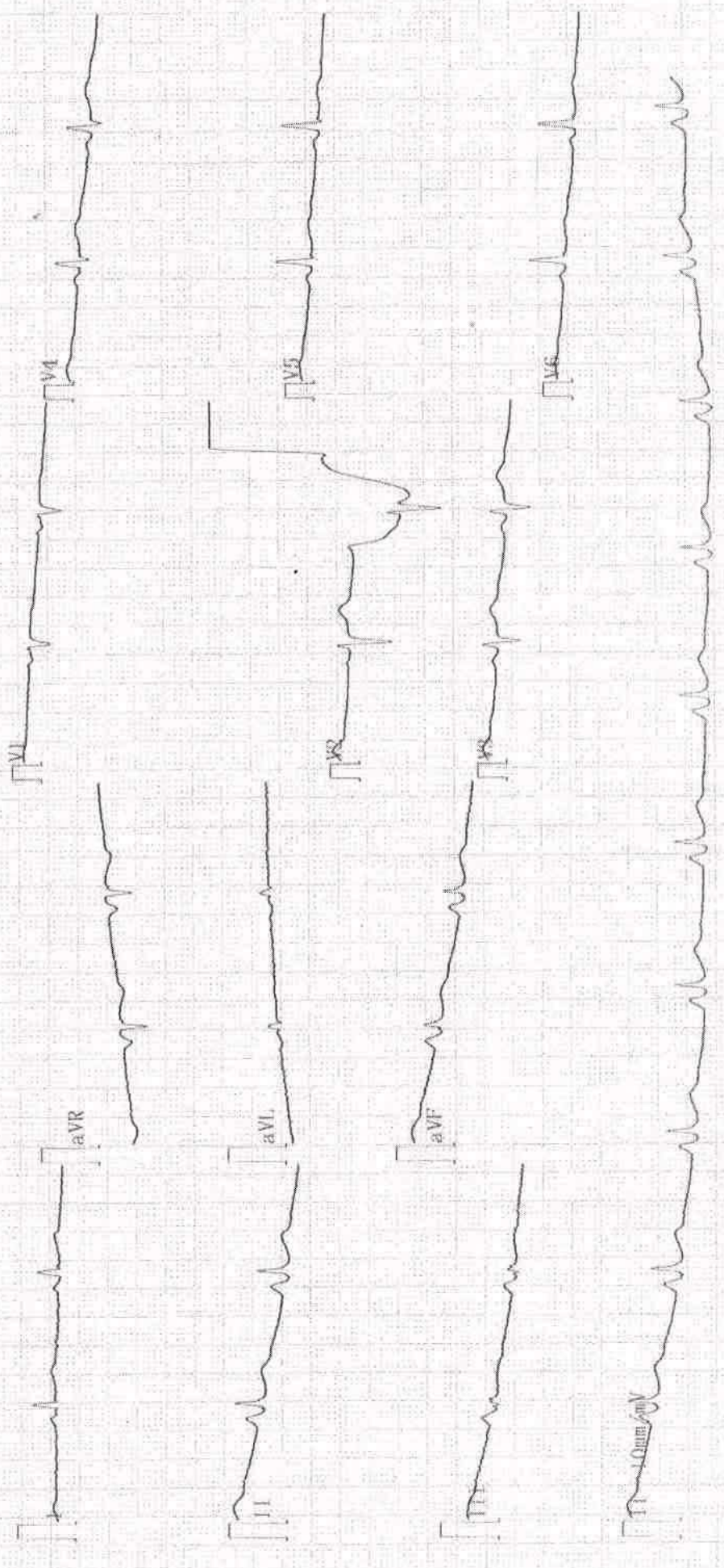
Physician:

5mm/mV

5mm/mV

10mm/mV

AUTO 10mm/mV



(=)

## Report : Radiology

UHID	: 5581023115	OPD ID	: 629/1023
Name	: MD. JUBIR	Reg. Date/Time	: 28-Oct-2023/11:34 AM
Age/Gender	: 45 Years / Male	Printing Date/Time	: 30-Oct-2023/5:12 PM
Address	:		
Ref. By	: Dr. Self ,		

### CHEST PA VIEW

#### Clinical note :

Check up.

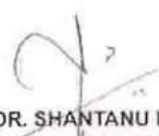
#### Findings :

Lung fields do not reveal any active parenchymal lesion.  
Pleural angles are clear and domes of the diaphragm are of normal contour.  
Cardio-thoracic ratio is within normal limits.  
Hilar shadows are normal.  
Bony thorax is intact.  
Soft tissue shadows are normal.

#### Impression :

RADIOLOGICAL FEATURES ARE ESSENTIALLY WITHIN NORMAL LIMITS.

DR UPASANA SARMA  
MBBS, MD  
Consultant Radiologist

  
DR. SHANTANU KUMAR BARUA  
MBBS,DMRD(Dib)  
Consultant Radiologist

A Unit of Premier Healthcare

Chitrabon Enclave, Near Commerce College, Opposite Nexa, Zoo Road, Guwahati

W: [www.mediclinicguwahati.com](http://www.mediclinicguwahati.com), E: [customercare@mediclinicguwahati.com](mailto:customercare@mediclinicguwahati.com), Tel: 7099044022 / 7099014433



Name	: Mr.MD. ZUBIR	Centre Details	: MEDICLINIC C/O PREMIER HEALTHCARE
Age	: 45 Yrs Sex: Male	Accession.ID	: GUW2310170073
Collection Date	: 18/Oct/2023 11:41AM	Referred By	: SELF
Received Date	: 18/Oct/2023 12:20PM	Report Date	: 19/Oct/2023 03:50PM
Registration Date	: 17/Oct/2023	Ref. No./TRF No.	: /

DEPARTMENT OF CLINICAL PATHOLOGY

Test Name	Result	Unit	Bio. Ref. Range
-----------	--------	------	-----------------

Urine Examination (Routine)

Urine

Physical Examination

<b>Volume</b> <i>Visual Examination</i>	25.00	mL	
<b>Colour</b> <i>Visual Examination</i>	PALE YELLOW		PALE YELLOW
<b>Appearance</b> <i>Visual Examination</i>	CLEAR		CLEAR
<b>pH Urine</b> <i>Double indicators test</i>	6.0		4.6-8.0
<b>Specific Gravity</b> <i>Strip Test</i>	1.015		1.001-1.030

Chemical Examination

<b>Blood</b> <i>Strip Test</i>	NIL		NEGATIVE
<b>Urine Protein</b> <i>Strip Test</i>	NIL		NIL
<b>Urine Glucose</b> <i>Strip Test</i>	NIL		NIL
<b>Bilirubin</b> <i>Dichlorobenzene diazonium reaction</i>	NEGATIVE		NIL

Microscopic Examination

<b>Red Blood Cells</b> <i>Microscopic Examination</i>	NIL	/HPF	NIL
<b>Pus Cells (WBC)</b> <i>Microscopic Examination</i>	2-3	/HPF	0-5



Dr. Bidhan Ch. Das  
M.D. Pathology  
Reg. No. -20667



Name	: Mr.MD. ZUBIR	Centre Details	:MEDICLINIC C/O PREMIER HEALTHCARE
Age	: 45 Yrs      Sex: Male	Accession.ID	:GUW2310170073
Collection Date	: 18/Oct/2023 11:41AM	Referred By	:SELF
Received Date	: 18/Oct/2023 12:19PM	Report Date	:19/Oct/2023 12:32PM
Registration Date	: 17/Oct/2023	Ref. No./TRF No.	: /

**DEPARTMENT OF BIOCHEMISTRY AND IMMUNOASSAY**

Test Name	Result	Unit	Bio. Ref. Range
<b>Lipid Profile (Basic)</b>			
<b>Serum</b>			
<b>Total Cholesterol</b> <i>Spectrophotometry</i>	181	mg/dL	140-250
<b>Triglycerides</b> <i>Spectrophotometry</i>	235	mg/dL	35.00-170.00
<b>HDL Cholesterol</b> <i>Spectrophotometry</i>	46	mg/dL	Moderate risk: 35-55 mg/dl High risk: < 35 mg/dl
<b>LDL Cholesterol</b> <i>Calculated</i>	88	mg/dL	Optimal:<100 Borderline high:130-160 High:161-190 Very high:>_190
<b>VLDL Cholesterol</b> <i>Calculated</i>	47	mg/dL	30-70
<b>Total / HDL Cholesterol Ratio</b> <i>Calculated</i>	3.93		Low risk:3.3-4.4 Average risk 4.4-7.1 Moderate risk 7.1-11.0 High risk >11.0
<b>Non HDL Cholesterol</b> <i>Calculated</i>	135	mg/dl	Adult Optimal <130 Above optimal 130-159 Borderline High 160-189 High 190-219 Very High >=220
<b>LDL / HDL Cholesterol Ratio</b>	2	()	0-4



Dr. Bidhan Ch. Das  
M.D. Pathology  
Reg. No. -20667



Format No.: ENV/R/TR/19/RW-01

Rev. No.: 00

**RAW WATER TEST REPORT**

<b>ULR No.</b>	NA		
<b>Report No.</b>	ENV/TR/DCNEL/DMH/23-24/RW-01	<b>Issue Date</b>	27/09/2023
<b>Order No.</b>	4556001700/236	<b>Order Date</b>	09/09/2023
<b>Report Issued To</b>	DALMIA CEMENT (NORTH EAST) LIMITED Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

<b>Sample Ref. No.:</b>	DCNEL/2023/RW-1509/01	<b>Sample Source:</b>	Ring-well/12 Kilo	<b>Sample Type:</b>	Raw Water/Ground Water
<b>Date of Sampling:</b>	15.09.2023	<b>Sample Receipt Date:</b>	16.09.2023	<b>Sample Quantity:</b>	2 L
<b>Analysis Start Date:</b>	19.09.2023	<b>Analysis End Date:</b>	25.09.2023	<b>Sampled By:</b>	Bidyut Kalita, Envirocon

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour	IS 3025 (Part 4)	12	PCU	5	15
2.	Odour	IS 3025 (Part 05)	Odourless	-	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 07)	Tasteless	-	Agreeable	Agreeable
4.	Turbidity	IS 3025 (Part 10)	3.6	NTU	1	5
5.	pH	IS 3025 (Part 11)	6.84	-	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids	IS 3025 (Part 16)	118	mg/l	500	2000
7.	Aluminium (as Al)	IS 3025 (Part 55)	BDL[MDL:0.001]	mg/l	0.03	0.2
8.	Boron (as B)	IS 3025 (Part 57)	BDL[MDL:0.001]	mg/l	0.5	1.0
9.	Calcium (as Ca)	IS 3025 (Part 40)	29	mg/l	75	200
10.	Chloride (as Cl)	IS 3025 (Part 32)	4.7	mg/l	250	1000
11.	Copper (as Cu)	IS 3025 (Part 42)	BDL[MDL:0.001]	mg/l	0.05	1.5
12.	Fluorides (as F)	IS 3025 (Part 60)	0.1	mg/l	1.0	1.5
13.	Free Residual Chlorine	IS 3025 (Part 26)	BDL[MDL:0.01]	mg/l	0.2	1
14.	Iron (as Fe)	IS 3025 (Part 53)	0.16	mg/l	0.3	No Relaxation
15.	Magnesium (as Mg)	IS 3025 (Part 46)	8	mg/l	30	100
16.	Manganese (as Mn)	IS 3025 (Part 59)	BDL[MDL:0.001]	mg/l	0.1	0.3
17.	Zinc (as Zn)	IS 3025 (Part 49)	BDL[MDL:0.01]	mg/l	5.0	15
18.	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34)	4.2	mg/l	45	No Relaxation
19.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43)	BDL[MDL:0.001]	mg/l	0.001	0.002
20.	Sulfate (as SO <sub>4</sub> )	IS 3025 (Part 24)	22	mg/l	200	400

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

\* Limits as per IS 10500:2012



Authorised Signatory: Mr. Pankaj Baroi (Director)

Page 1 of 2

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Format No.: ENV/R/TR/19/RW-01

Rev. No.: 00

**RAW WATER TEST REPORT**

ULR No.	NA		
Report No.	ENV/TR/DCNEL/DMH/23-24/RW-01	Issue Date	27/09/2023
Order No.	4556001700/236	Order Date	09/09/2023
Report Issued To	DALMIA CEMENT (NORTH EAST) LIMITED Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO <sub>3</sub> )	IS 3025 (Part 23)	106	mg/l	200	600
22.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	127	mg/l	200	600
23.	Cadmium (as Cd)	IS 3025 (Part 41)	BDL[MDL:0.001]	mg/l	0.003	No Relaxation
24.	Cyanide (as CN)	IS 3025 (Part 27)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
25.	Lead (Pb)	IS 3025 (Part 47)	BDL[MDL:0.001]	mg/l	0.01	No Relaxation
26.	Mercury (Hg)	IS 3025 (Part 48)	BDL[MDL:0.001]	mg/l	0.001	No Relaxation
27.	Nickel (as Ni)	IS 3025 (Part 54)	BDL[MDL:0.001]	mg/l	0.02	No Relaxation
28.	Total Arsenic (as As)	IS 3025 (Part 37)	BDL[MDL:0.001]	mg/l	0.01	0.05
29.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
30.	Total Coliform Bacteria	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent
31.	E. Coli	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

\* Limits as per IS 10500:2012

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



Authorised Signatory: Mr. Pankaj Baroi (Director)

Page 2 of 2

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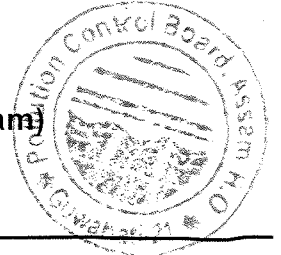


# Pollution Control Board:: Assam Bamunimaidam; Guwahati-21

(Department of Environment & Forests :: Government of Assam)

Phone: 0361-2652774 & 2550258; Fax: 0361-2550259

Website: [www.pcbassam.org](http://www.pcbassam.org)



No. WB/SLC/T-685/15-16/660

Dated Guwahati, the 30.01.2023

## CONSENT TO OPERATE

'CONSENT TO OPERATE' (CTO) under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 as amended and Rules Framed there under is granted to:

- i) Name of the unit : M/s Vinay Cement Ltd. (Lime Stone Mine)
- ii) Name of the Occupier / Applicant and Designation : Sri Padmanav Chakravorty, Regional Manufacturing Head
- iii) Address of the unit : 16 Kilo, Jamunanagar, Umrangsho, Dist. Dima Hasao, Assam - 788931
- iv) Cost of the project : Rs. 800.00 Lakhs.
- v) Details of the project & category : Lime Stone Mining (Red category)

Sl. No.	Product	Capacity
1.	Lime Stone Mining	125000 MT / month

- vi) D.G. Set : 1 x 1250 KVA

### TERMS AND CONDITIONS:

1. The Consent to Operate (CTO) has been accorded based on the particulars furnished by the applicant vide Application ID: 1628211 and subject to addition of further or more conditions, if so warranted by subsequent developments. The CTO will automatically become invalid, if there is any changes, modification, alteration, expansion or deviation is made in actual practice.
2. The CTO is valid till 31.03.24.
3. The CTO may be modified, suspended in whole or in part or withdrawn by the Board during its term for cause including, but not limited to the following:-
  - a) Violation of any Terms and Conditions of this CTO;
  - b) Obtaining the CTO by misrepresentation or failure to disclose fully all relevant facts;
  - c) If any genuine complaint received.
4. The unit shall comply with all the stipulated and general conditions of Environment Clearance granted to the unit by SEIAA vide No.SEIAA.536/2015/EC/65/366; dtd: 11/01/2016.
5. The unit shall obtain prior 'Consent to Establish' from the Board for any further expansion, alteration, modification, and modernization of the project.
6. The project proponent shall develop a greenbelt / Plantation area with native trees covering at-least 33% of total plot area.
7. The project authority shall install a Display Board as per the Boards notification No.PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021 (Appendix-A).

Contd...p/2

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8. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981, as amended, any Officer empowered by the Board on its behalf shall have without interruption, the right at any reasonable time to enter the unit for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial of this right will cause withdrawal of the Consent Order.
9. Mine reclamation plan shall be prepared and submitted.
10. The unit shall apply for renewal of CTO atleast 90 days before expiry. The Board has decided to renew CTO for five (5) years, if the project proponent submits application with due payment of fees, for the entire period.

Specific Conditions:

A) Air Aspects:

1. The unit shall comply with the standards and guidelines for control of noise pollution from stationary Diesel Generator (DG) set as attached in Appendix-B.
2. The unit shall comply with the Noise Level Standards, notified by MoEF&CC, Govt. of India, vide as per GSR. 7, dated: Dec.22, 1998, as mentioned herein under:

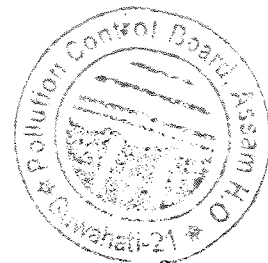
Limit in dB (A) Leq	
Day Time (6:00AM-10:00PM)	Night Time (10:00PM-6:00AM)
75	70

3. The Ambient Air Quality within the mining and surrounding areas shall be maintained within the National Ambient Air Quality Standards as notified by MoEF&CC, Govt. of India, vide G.S.R.826(E) dtd.18.11.2009, especially w.r.t. PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub> & NO<sub>2</sub> as mentioned herein under:

Sr. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural & Other Area	Ecologically Sensitive Area (notified by Central Government)
1.	Particulate Matter (size less than 10µg) or PM <sub>10</sub> (µg/m <sup>3</sup> )	Annual*	60	60
		24 hours**	100	100
2.	Particulate Matter (size less than 2.5µg) or PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Annual*	40	40
		24 hours**	60	60
3.	Sulphur Dioxide (SO <sub>2</sub> )	Annual*	50	20
		24 hours**	80	80
4.	Nitrogen Dioxide (NO <sub>2</sub> )	Annual*	40	30
		24 hours**	80	80

4. The following pollution control measures shall be implemented by the project authority-
  - a) Dust containment cum suppression system at the material handling points to minimize fugitive emission.
  - b) Construction of metallic haul road.
  - c) Regular cleaning and wetting of ground within the premises.

Mr. J. S.



B) Solid Waste Aspects:

1. Top soil shall be stacked properly.
2. Over burden dumps (OBD) shall be properly managed.
3. Adequate system shall be adopted on reduction of waste generation and enhancement of re-utilization & recycling of waste material.
4. The unit shall strictly comply with all the provision of the Solid Waste Management Rules, 2016.

C) Hazardous Waste Aspects:

1. The unit shall obtain Authorization under the Hazardous and Other Waste (Management & Trans-boundary Movement) Rules, 2016 from the Board.
2. Adequate facility shall be provided for collection and storage of used oil, which shall be sent to registered recyclers for recycling. The unit shall maintain a record regarding generation of hazardous wastes in Form-III of the Rules.
3. Appropriate facility shall be created for handling, storage, treatment & disposal of any Hazardous waste generated by the industry in accordance to the provisions of the H&OW Rule including Notification, Guidelines issued there under.
4. The unit shall identify and quantify all streams of Hazardous Waste generation as per Schedule-I and maintain proper record in Form-III of the said Rules.
5. The unit shall submit the annual return under the said Rule, in Form-IV, within 30<sup>th</sup> June every year.

C) E-Waste Aspects:

1. The unit shall comply with the provisions of the E-Waste (Management) Rules, 2022.

The unit shall submit compliance report of the mandated conditions by April 15 of every year to Member Secretary, PCBA as well as to Regional Office, Silchar. The Board will have the liberty to withdraw the CTO, if adequate pollution control and safety measures are not implemented by the unit.

Sd/-

(Shantanu Kr. Dutta)  
Member Secretary

Dated Guwahati, the 30.01.2023

Memo No. WB/SLC/T-685/15-16/660 -A  
Copy to: *27/23*

- ✓ 1. M/s Vinay Cement Ltd., 16 Kilo, Jamuna Nagar, Umrangsho, Dist. Dima Hasao, Assam-788931 – for information and compliance of conditions.

*m/s 47*

(Shantanu Kr. Dutta)  
Member Secretary

*ms*





Pollution Control Board, Assam  
Bamunimaidam, Guwahati-21



**NOTIFICATION**

No. PCBA/LGL-95/2021/Notification/01

Dated Guwahati, the 11<sup>th</sup> Nov, 2021

In exercise of the powers conferred under Section-5 of the Environment (Protection) Act, 1986 as amended till date and keeping in view the need of public interest towards dissemination of vital information regarding Consent/Authorization of this Board, all industries are hereby directed to install a Display Board of minimum size 5'x4', near the main entrance gate.

The format of the display board is given below:

Name and Address of the Unit : M/s.	
Description of Consent/Authorization	Details
Consent to Establish (CTE)	No.: Date of Issue:
Consent to Operate (CTO)	No.: Date of validity:
Authorization under Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 (if applicable)	No.: Date of Issue: Date of validity:

**Member Secretary**

Memo No. PCBA/LGL-95/2021/Notification/01-A  
Copy to: <sup>1093</sup>

Dated Guwahati, the 11<sup>th</sup> Nov, 2021

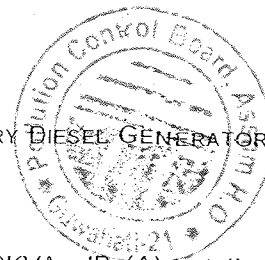
1. The Commissioner & Secretary to the Govt. of Assam, Department of Environment & Forest, Dispur for kind information.
2. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
3. The All Regional Heads, PCBA for information & necessary action.
4. M/S APS Advertising Pvt. Ltd, Guwahati-1. They are requested to publish the "NOTICE" in "the Assam Tribune" and "Dainandim Barta" on 12.11.2021.
5. Notice Board, Head Office / Website ([www.pcbassam.org](http://www.pcbassam.org)), PCBA.

*Ruh*  
**Member Secretary**





## APPENDIX – B



### 1.66.0 STANDARDS AND GUIDELINES FOR CONTROL OF NOISE POLLUTION FROM STATIONARY DIESEL GENERATOR (DG) SETS.

#### (A) Notes standards for DG sets (15-500KVA)

The total sound power level LW of DG set should loss than  $94 + 10 \log 10\text{KVA}$ , dB (A), at the manufacturing stage, whether; KVA is the nominal power rating of a DG set.

This level should fall by 5dB (A) every five years, till 2007, i.e. in 2002 and then in 2007.

#### (B) Mandatory Acoustic enclosure/Acoustic treatment of room for stationary DG sets (5KVA and above):

Noise from the DG set should be controlled by providing an acoustic enclosure on by treating the room acoustically.

The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB (A) insertion Loss or for meeting the ambient noise standards, which ever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion Loss may be done at different points at 0.5 from the acoustic enclosure/room, and then averaged. (See the Schematic Diagram).

The DG set should also be provided with proper exhaust muffler with Insertion Loss of minimum 25 dB (A).

#### Guidelines for the manufacturers Users of DG sets 5KVA and above:

- The manufacture should offer to the user a standard acoustic enclosure of 25dB(A). Insertion Loss and also a suitable exhaust muffler with Insertion Loss of 25dB(A).
- The user should make efforts to bring down the noise levels due to the DG set, outside his premises, within the ambient noise requirements by proper siting and control measures.
- The manufacturer should furnish noise power levels of the unsalaried DG sets as per standards prescribed under (A).
- The total sound power level of a DG set, at the user's end, shall be within 2dB(A) of the total sound power level of the DG set, at the manufacturing stage, as prescribed under (A).
- Installation of DG set must be strictly in compliance with the recommendation of the DG set manufacture.
- A proper routines and preventive maintenance procedure for the DG set manufacturer which would help prevent noise levels of the DG set from deteriorating with use.

#### 2.44.0 NOISE (AMBIENT STANDARDS)

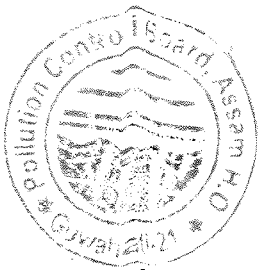
Area Code	Category of Area	Limit in dB(A) Leq.	
		Day time	Night time
A.	Industrial area	75	70
B.	Commercial area	65	55
C.	Residential area	55	45
D.	Silence Zone	50	40

Note – 1 : Day time is reckoned in between 6.00 A.M. and 9.00 P.M.

Note – 2 : Night time is reckoned in between 9.00P.M. and 6.00 A.M.

Note – 3 : Silence zone is defined as areas up to 100 meters around such premises as hospitals, educational institutions and courts. The silence zones are to be declared by the competent Authority.

Note – 4 : Mixed categories of areas should be declared as one of the four above mentioned categories by the competent Authority and the corresponding standard shall apply.



Source : EPA, Notification [GSR 1063 (E), dated Dec., 26, 1998]

3.22-0 DIESEL GENERATOR SETS : STACK HEIGHT

1. The minimum stack height to be provided with each generator set shall be worked out as per the following formula:-  $H = h + 0.2 \sqrt{KVA}$ , where H = Total height of stack in meter.

h = Height of the building in meters where generator set is installed.

KVA = Total generator capacity.

Adequate fire fighting measures have to be provided by the occupier of the premises. Based on the above formula the minimum stack height to be provided with different range of generator sets may be categories as follows:

Range of Generator sets	Minimum Stack Height
50 KVA	Ht. of the building + 1.5 metre.
50 - 100 KVA	Ht. of the building + 2.0 metre.
100 -150 KVA	Ht. of the building + 2.5 metre.
150 - 200 KVA	Ht. of the building + 3.0 metre.
200 - 250 KVA	Ht. of the building + 3.5 metre.
250 - 300 KVA	Ht. of the building + 3.5 metre.

Similarly for higher KVA rating a stack height can be worked out using the above formula.

Source : Evolved by CPCB [Emission Regulations Part-IV: COINDS/26 1986-87]

4. A .32.0 Part - C

Sl. No. 1 Stack Gas : PM - 150  $\mu\text{g}/\text{Nm}^3$

B. Ambient Air Standards:

Residential Area	Industrial Area	Sensitive Area
SO <sub>2</sub> : 80* $\mu\text{g}/\text{m}^3$	120* : $\mu\text{g}/\text{m}^3$	30* : $\mu\text{g}/\text{m}^3$
NO <sub>2</sub> : 80* $\mu\text{g}/\text{m}^3$	120* : $\mu\text{g}/\text{m}^3$	30* : $\mu\text{g}/\text{m}^3$
CO : 2.0** $\mu\text{g}/\text{m}^3$	5.0** : $\mu\text{g}/\text{m}^3$	1.0** : $\mu\text{g}/\text{m}^3$
*24 hourly; ** 8 hourly		

5. SCHEMATIC DIAGRAM OF D.G. SET IN AN ACOUSTIC ENCLOSURE No. Process/71/1998-99.

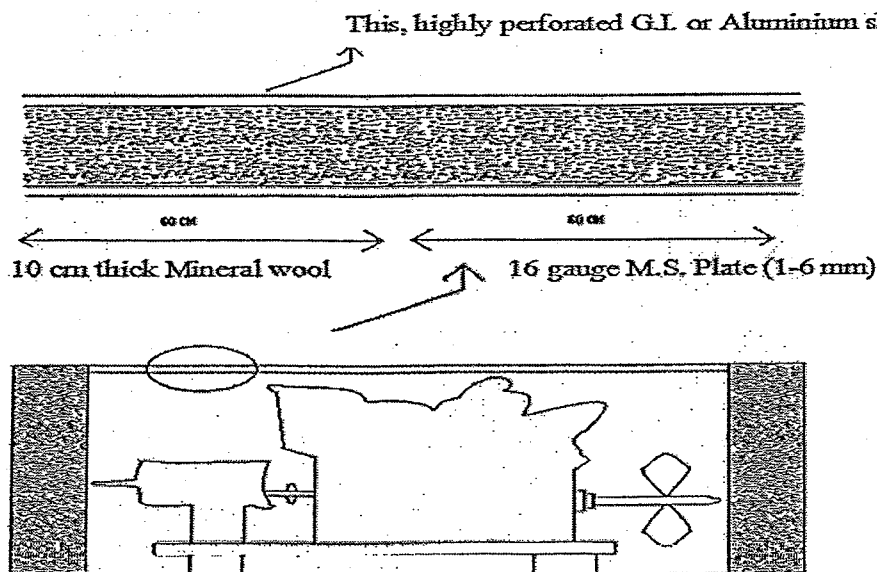


Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

Air required for the ventilation and breathing of the engine will have to be provided by means of intake louvers and exhaust louvers (called parallel baffle mufflers) projecting out of the enclosure.

## Activities undertaken as per Public Commitments

Programs	Activities
Environment, Education & Skill Training, Employment	6000 Bamboo plantation and beautification of school campus at 2 nearby schools completed. Constructed sports gallery at Dithur village. 10000 Nursery raising and plantation of Drumsticks with SHG members (28 SHG). Installation of smart class equipment to 2 schools. Sports items were distributed. Real-time data is uploaded to CPCB as well as SPCB. Ambient air quality data is displayed in the public domain outside the plant gate. <b>Rs. 12 lakh</b> , has been incurred for Environmental monitoring and management. Scholarship award to 18 meritorious and economically weaker students.
	Water quality has been monitored for all the parameters as per IS-10500. Also, as per EC condition, water was tested for fluoride & arsenic. No traces of arsenic were found.
Socio-Economic development activities	Training & Nutrition Garden development through SHGs. Installation of smart class equipment to schools.
	60 nos. Solar street installation. 3 nos Health Camps and 4 no. Veterinary Camp
	Micro Enterprise Development Program

### Some of the Photographs of the activities











Format No.: ENV/R/TR/19/AA-01

Rev. No.: 00

**AMBIENT AIR QUALITY TEST REPORT**

<b>ULR No.</b>	NA		
<b>Report No.</b>	ENV/TR/DCNEL/DMH/23-24/A-08	<b>Issue Date</b>	27/09/2023
<b>Order No.</b>	4556001700/236	<b>Order Date</b>	09/09/2023
<b>Report Issued To</b>	VCL LIMITED A Unit of Dalmia Cement (Bharat) Ltd. Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

<b>Sample Ref. No.:</b>	DCNEL/2023/A-1409/01	<b>Sample Source:</b>	On Main Haul Road Near Maa Kali Mandir	<b>Weather Condition:</b>	Clear & Calm
<b>Date of Sampling:</b>	14.09.2023	<b>Sample Receipt Date:</b>	16.09.2023	<b>Instrument Used:</b>	FPS, RDS & Gaseous Attachment
<b>Analysis Start Date:</b>	19.09.2023	<b>Analysis End Date:</b>	27.09.2023	<b>Sampled By:</b>	Bidyut Kalita, Envirocon

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Limits*
1.	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	IS 5182 (Part 24)	33.4	µg/m <sup>3</sup>	60 (24 Hours Average)
2.	Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	IS 5182 (Part 23)	61.3	µg/m <sup>3</sup>	100 (24 Hours Average)
3.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2)	7.1	µg/m <sup>3</sup>	80 (24 Hours Average)
4.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 5182 (Part 6)	8.4	µg/m <sup>3</sup>	80 (24 Hours Average)
5.	Ozone (as O <sub>3</sub> )	CPCB Guidelines	BDL [MDL: 1.0]	µg/m <sup>3</sup>	180 (1 Hour Average)
6.	Lead (as Pb)	IS 5182 (Part 22)	BDL [MDL: 0.01]	µg/m <sup>3</sup>	1.0 (24 Hours Average)
7.	Carbon Monoxide (as CO)	IS 5182 (Part 10)	BDL [MDL: 0.01]	mg/m <sup>3</sup>	4.0 (1 Hour Average)
8.	Ammonia (as NH <sub>3</sub> )	CPCB Guidelines	BDL [MDL: 5.0]	µg/m <sup>3</sup>	400 (24 Hours Average)
9.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	CPCB Guidelines	BDL [MDL: 0.01]	µg/m <sup>3</sup>	5.0 (Annual Average)
10.	Benzo(a)Pyrene (as BaP) - Particulate Phase Only	CPCB Guidelines	BDL [MDL: 0.1]	ng/m <sup>3</sup>	1.0 (Annual Average)
11.	Arsenic (as As)	CPCB Guidelines	BDL [MDL: 0.01]	ng/m <sup>3</sup>	6.0 (Annual Average)
12.	Nickel (as Ni)	CPCB Guidelines	BDL [MDL: 0.01]	ng/m <sup>3</sup>	20 (Annual Average)

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum

\* Limits as per G.S.R. 826(E), 16.11.2009

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



Authorised Signatory: Mr. Pankaj Baroi (Director)

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Format No.: ENV/R/TR/19/AA-01

Rev. No.: 00

**AMBIENT AIR QUALITY TEST REPORT**

<b>ULR No.</b>	NA		
<b>Report No.</b>	ENV/TR/DCNEL/DMH/23-24/A-09	<b>Issue Date</b>	27/09/2023
<b>Order No.</b>	4556001700/236	<b>Order Date</b>	09/09/2023
<b>Report Issued To</b>	VCL LIMITED A Unit of Dalmia Cement (Bharat) Ltd. Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

<b>Sample Ref. No.:</b>	DCNEL/2023/A-1409/02	<b>Sample Source:</b>	On Haul Road Inside Mines Near View Point	<b>Weather Condition:</b>	Clear & Calm
<b>Date of Sampling:</b>	14.09.2023	<b>Sample Receipt Date:</b>	16.09.2023	<b>Instrument Used:</b>	FPS, RDS & Gaseous Attachment
<b>Analysis Start Date:</b>	19.09.2023	<b>Analysis End Date:</b>	27.09.2023	<b>Sampled By:</b>	Bidyut Kalita, Envirocon

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Limits*
1.	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	IS 5182 (Part 24)	28.7	µg/m <sup>3</sup>	60 (24 Hours Average)
2.	Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	IS 5182 (Part 23)	54.6	µg/m <sup>3</sup>	100 (24 Hours Average)
3.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2)	7.6	µg/m <sup>3</sup>	80 (24 Hours Average)
4.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 5182 (Part 6)	8.9	µg/m <sup>3</sup>	80 (24 Hours Average)
5.	Ozone (as O <sub>3</sub> )	CPCB Guidelines	BDL [MDL: 1.0]	µg/m <sup>3</sup>	180 (1 Hour Average)
6.	Lead (as Pb)	IS 5182 (Part 22)	BDL [MDL: 0.01]	µg/m <sup>3</sup>	1.0 (24 Hours Average)
7.	Carbon Monoxide (as CO)	IS 5182 (Part 10)	BDL [MDL: 0.01]	mg/m <sup>3</sup>	4.0 (1 Hour Average)
8.	Ammonia (as NH <sub>3</sub> )	CPCB Guidelines	BDL [MDL: 5.0]	µg/m <sup>3</sup>	400 (24 Hours Average)
9.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	CPCB Guidelines	BDL [MDL: 0.01]	µg/m <sup>3</sup>	5.0 (Annual Average)
10.	Benzo(a)Pyrene (as BaP) - Particulate Phase Only	CPCB Guidelines	BDL [MDL: 0.1]	ng/m <sup>3</sup>	1.0 (Annual Average)
11.	Arsenic (as As)	CPCB Guidelines	BDL [MDL: 0.01]	ng/m <sup>3</sup>	6.0 (Annual Average)
12.	Nickel (as Ni)	CPCB Guidelines	BDL [MDL: 0.01]	ng/m <sup>3</sup>	20 (Annual Average)

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum

\* Limits as per G.S.R. 826(E), 16.11.2009

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



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Format No.: ENV/R/TR/19/AA-01

Rev. No.: 00

**AMBIENT AIR QUALITY TEST REPORT**

<b>ULR No.</b>	NA		
<b>Report No.</b>	ENV/TR/DCNEL/DMH/23-24/A-10	<b>Issue Date</b>	27/09/2023
<b>Order No.</b>	4556001700/236	<b>Order Date</b>	09/09/2023
<b>Report Issued To</b>	VCL LIMITED A Unit of Dalmia Cement (Bharat) Ltd. Jamunanagar-16 Kilo, Umrangshu, Dist.- Dima Haso (N. C. Hills), Assam - 788931		

<b>Sample Ref. No.:</b>	DCNEL/2023/A-1409/03	<b>Sample Source:</b>	On Haul Road Near Mines Weigh Bridge	<b>Weather Condition:</b>	Clear & Calm
<b>Date of Sampling:</b>	14.09.2023	<b>Sample Receipt Date:</b>	16.09.2023	<b>Instrument Used:</b>	FPS, RDS & Gaseous Attachment
<b>Analysis Start Date:</b>	19.09.2023	<b>Analysis End Date:</b>	27.09.2023	<b>Sampled By:</b>	Bidyut Kalita, Envirocon

**TEST RESULTS**

Sl. No.	Parameters	Test Method	Results	Units	Limits*
1.	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub>	IS 5182 (Part 24)	27.2	µg/m <sup>3</sup>	60 (24 Hours Average)
2.	Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	IS 5182 (Part 23)	56.7	µg/m <sup>3</sup>	100 (24 Hours Average)
3.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2)	6.3	µg/m <sup>3</sup>	80 (24 Hours Average)
4.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 5182 (Part 6)	7.5	µg/m <sup>3</sup>	80 (24 Hours Average)
5.	Ozone (as O <sub>3</sub> )	CPCB Guidelines	BDL [MDL: 1.0]	µg/m <sup>3</sup>	180 (1 Hour Average)
6.	Lead (as Pb)	IS 5182 (Part 22)	BDL [MDL: 0.01]	µg/m <sup>3</sup>	1.0 (24 Hours Average)
7.	Carbon Monoxide (as CO)	IS 5182 (Part 10)	BDL [MDL: 0.01]	mg/m <sup>3</sup>	4.0 (1 Hour Average)
8.	Ammonia (as NH <sub>3</sub> )	CPCB Guidelines	BDL [MDL: 5.0]	µg/m <sup>3</sup>	400 (24 Hours Average)
9.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	CPCB Guidelines	BDL [MDL: 0.01]	µg/m <sup>3</sup>	5.0 (Annual Average)
10.	Benzo(a)Pyrene (as BaP) - Particulate Phase Only	CPCB Guidelines	BDL [MDL: 0.1]	ng/m <sup>3</sup>	1.0 (Annual Average)
11.	Arsenic (as As)	CPCB Guidelines	BDL [MDL: 0.01]	ng/m <sup>3</sup>	6.0 (Annual Average)
12.	Nickel (as Ni)	CPCB Guidelines	BDL [MDL: 0.01]	ng/m <sup>3</sup>	20 (Annual Average)

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum

\* Limits as per G.S.R. 826(E), 16.11.2009

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