

Ref: VCL/USO/EHS/2022-23/05

Dated: 30/05/2023

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 1st October 2023 to 31st March 2023 for VCL Mines, Umrongso. The compliance report will be uploaded in our company website 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 (October 22- March 2023)

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

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

	Conditions	Compliance Status
A	<u>Specific Conditions</u>	
(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.	Complied with approved mining scheme/mine closure plan
(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"> • 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 & participatory ruler appraisal • Expenditure incurred towards various social welfare measures is Rs. two Crore fifty-four lakh from April- March 23 • The details of the activities undertaken are given in Annexure I.
(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"> • 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 Annexure I.
(4)	Land use pattern of the mine lease area shall be complied as mentioned in final EIA report.	Complied with final EIA report and mining plan.

(5)	Maintenance of roads through which transportation of ores are under taken shall be carried out by the company regularly at its own expenses.	<p>Complied.</p> <ul style="list-style-type: none"> • Rupees fourteen lakh eighty-three thousand only has been incurred towards the mine's haul road maintenance from October 2022-March 23.
(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>Complied</p> <ul style="list-style-type: none"> • Rain water is diverted to the settling pond by garland drains in the lower slopes of the quarry and OB dump. • Part of the water is utilized for plantation, dust suppression etc. • Balance water, free from suspended particles, is allowed to flow outside lease area.
(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"> • 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.
(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>Complied</p> <ul style="list-style-type: none"> • 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. • Suitable native trees are planted on the bench slopes of the dump for stabilization.
(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 (if any) flowing through the ML area	<p>Complied</p> <ul style="list-style-type: none"> • 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. • Sump capacity has been so designed so as to provide an adequate retention period to allow proper setting of silt material.

	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.	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.	Complied <ul style="list-style-type: none"> • Drinking water is being treated by advanced Reverse Osmosis Technology (RO) and records of the quality of water are maintained. • As advised, monitoring of drinking water quality after RO treatment has been undertaken and the report is attached as an Annexure II
(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.	Complied <ul style="list-style-type: none"> • 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 Annexure-III.
(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"> • There is no topsoil generation. • 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.
(13)	Over burden shall be stacked at earmarked dump sites only and shall not be kept active for long period. The maximum height of the dump	Complied. <ul style="list-style-type: none"> • Dumping is being done at earmarked area as per approved mining plan only. 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.	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.	Complied No external dump outside lease area.				
(15)	Haul road width shall be minimum 15 meters.	Complied				
(16)	Slopes of the mining bench and ultimate pit limited shall be as per the mining scheme approved by Indian Bureau of Mines.	Complied				
(17)	Drilling shall be conducted by using dust extractors / wet drilling. Controlled blasting shall be undertaken.	Complied				
(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.	Complied <ul style="list-style-type: none"> Green belt development is being carried out with due consultation of local DFO. 07.5 ha area is under plantation at the end of mid finance year up to March'2023 within lease area. Details of the plantation within & outside the ML is as below: <table border="1" data-bbox="737 1518 1401 2002"> <tr> <td>Afforestation within lease area (Ha/ No. of Plants)</td> <td>WML: 370 saplings (0.15 Ha) with 83.24% of survival rate.</td> </tr> <tr> <td>Afforestation outside ML (Ha/ No. of plants)</td> <td>380 saplings (0.14 Ha) with 84.47% of survival rate.</td> </tr> </table>	Afforestation within lease area (Ha/ No. of Plants)	WML: 370 saplings (0.15 Ha) with 83.24% of survival rate.	Afforestation outside ML (Ha/ No. of plants)	380 saplings (0.14 Ha) with 84.47% of survival rate.
Afforestation within lease area (Ha/ No. of Plants)	WML: 370 saplings (0.15 Ha) with 83.24% of survival rate.					
Afforestation outside ML (Ha/ No. of plants)	380 saplings (0.14 Ha) with 84.47% of survival rate.					
(19)	Regular monitoring of ground water	<ul style="list-style-type: none"> Ground water is not being used for the 				

	<p>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.</p>	<p>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</p> <ul style="list-style-type: none"> • 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 Annexure_IV.
(20)	<p>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>	<p>Complied</p> <ul style="list-style-type: none"> • During Mining Operation, Waste water generated from the mine work shop is treated for separation of oil & grease and treated effluent is used for green belt. • Mines office sewage water is diverted to Septic tank followed by soak pit.
(21)	<p>Other statutory permission from the competent authority shall be obtained and copy of the same shall be submitted to SEIAA, Assam.</p>	<p>Complied</p> <ul style="list-style-type: none"> • 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, 7th March 2016 and Consent to Operate accorded vide letter no WB/SLC/T-685/15-16/653/04dated Guwahati,1st April 2022 which is valid up to 31st March 2024. Copy of the Consent to Operate is enclosed as Annexure V
(22)	<p>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 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</p>	<p>Complied</p> <ul style="list-style-type: none"> • 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. 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.

	overloading of ores for transportation shall be committed.	
(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"> 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. The status of implementation is given in Annexure VI
(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.	Noted for compliance Shall be submitted prior to closure of mines
B	<u>General Conditions</u>	
(1)	No change in mines technology and scope of working shall be made without prior approval of the SEIAA, Assam.	Complied
(2)	No change in the calendar plan including excavation, quantum of mineral and waste shall be made.	Complied
(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.	Complied <ul style="list-style-type: none"> 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(Annexure -VII)
(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 once in six months.	Complied Data on Ambient air quality is attached as Annexure- VII
(5)	Fugitive dust emission from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at	Complied <ul style="list-style-type: none"> Measures prescribed in EIA/EMP and Mining scheme have already been adopted and will be continuous to control the

	transfer points shall be provided and properly maintained.	fugitive emission. At present Regular water sprinkling is being carried out on haul road, loading and unloading and at transfer points.
(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.	Complied <ul style="list-style-type: none"> Necessary PPE's are provided to the workers. Machineries deployed are provided with suitable mechanism for reducing noise.
(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 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	Complied <ul style="list-style-type: none"> During Mining Operation, Waste water generated from the mine work shop is treated for separation of oil & Grease and treated effluent is used for green belt and for spraying.
(8)	STP shall be installed for the colony. ETP shall also be provided for workshop & mineral separation plant waste water.	Complied <ul style="list-style-type: none"> STP installed for the colony. Waste water generated from the work shop is treated for separation of oil & grease and treated effluent is used for green belt and for spraying. Mines office sewage water is diverted in to Septic tank followed by soak pit.
(9)	Blasting operation shall be carried out only during daytime.	Complied
(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.	Complied
(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.	Complied <ul style="list-style-type: none"> Since the plant & 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. The Environmental Cell is under the control of Sr. Executive reporting directly to the Unit Head.
(12)	The project authorities shall inform to the SEIAA, Assam & Regional	Complied The financial closure of the project is Feb 16 and

	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.	land development work started in March 16.
(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.	Complied Funds of Rs. 32.79 Lakhs was earmarked for Environmental protection measures up to March 23.
(14)	The project authorities shall inform to the SEIAA, Assam regarding date of financial closure and final approval of the project.	Complied <ul style="list-style-type: none"> The financial closure of the project is Feb 16 and consent to operate has been obtained on 2nd March, 2021.
(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.	Noted for extending necessary Cooperation
(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.	Complied <ul style="list-style-type: none"> It is available on the parent company's website and the link of the same is as below: https://www.dalmiabharat.com/index62ee.html?act=cms-page&cat_id=16&id=83
(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.	Complied <ul style="list-style-type: none"> It was advertised on 18.01.2016 in two newspapers which are: - Assam Tribune & 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.
(18)	The SEIAA, Assam may alter/ modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted

(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.	Noted
(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.	Noted

Status of CSR Activity carried out under compliance of Plant & Mines EC as per committment, 2022-23

SL No	Program Activities	Head	No. of units	Location/Village	Status	Expenditure (Lakh)
1	Construction of sports gallery	Plant EC	1	Dithur	Completed	11.93
2	Ambulance donation to Umrangso CHC	Mines EC	1	Umrangso CHC	Completed	24.57
3	Community school bus service	Mines EC	1	Umrangso 19 KM to Township	Completed	26.13
4	Smart class equipment to schools	Mines EC	2	Royal academy & Lovelywell school	Completed	6.14
5	Plantation at nearby school	Plant EC	5000	Garampani Govt. High school and Saraswati Vidya mandir	Completed	8.3
6	Bamboo plantation	Plant EC	40000	9 villages	Completed	16.4
7	Installation of solar street lights	plant & Mines EC	85	19 KM, Hanjanglangso, Langcherui, Dithur	Completed	14.65
8	Water Tanker for community service	plant EC	1	Near by villages	Completed	26.95
9	Construction of Ring wells	Plant EC	7	16 KM, Hanjanglangso, Lakeside, Krongma, Borolokhindong and	Completed	8.4
10	Construction of Spring water harvesting tanks	Plant EC	3	Amramlangso & New Borolarpheng	Completed	12.59
11	Construction of Boundary wall	Plant EC	1	Construction of Boundary wall	Constructio n of	12.23
12	Construction of mid-day meal kitchen and upgradation of AWC	Plant EC	1	Umrangso 19 Km L. P school	Completed	12.23
13	Construction of Community Hall	Plant EC	1	Kamala Bagan	Completed	18.96
14	Village road development	Plant EC	1	19 KM to Hanjanglangso	Completed	23
15	Skill training of youths at Govt. ITI, Nagaon	Plant EC	33	Near by villages	Completed	5.21
16	Food processing training to SHG women and machineries	Plant EC	40	Borolobang & Umrangso 19 KM	Completed	1.22

17	Scholarship to meritorious students	Plant EC	18	Umrangso area	Completed	3.6
	Total					232.51
18	Health Camps	Public Hearing preparedness	3	Hanjanglangso, Umrangso 19 Km & Dithur	Completed	1.88
19	Community Connect program/football match	Public Hearing preparedness	2	Umrangso 19 KM & Dithur	Completed	1.97
	Total					3.85
20	Inauguration of community hall	DBF	1	Kamala Bagan	Completed	0.22
21	Celebration of International women day	DBF	1	Lovelywel Durong Memorial school	Completed	0.25
22	FPC registration and training to members	DBF	1	Office of FPC, 14 KM	Completed	0.5
23	Health Camps	DBF	3	Krungmenglangso, Kalanala, Chotolanglai	Completed	0.3
24	Veterinary camp	DBF	2	Borolobang & Rongarting N	Completed	0.55
25	Training on Nutrition garden with input support to women SHG members	DBF	6	Borolobang, Kukrilangso, Rongarting N, Mirphung, Langcherui, Langmeklu, Bhimraji, Dithur	Completed	0.6
26	Observation of Children Day	DBF	1	Lovelywel Durong Memorial school	Completed	0.12
	Total					2.54

Report No.: ENV/CCIL/DMH/22-23/DW-02/01

Date : 23/02/2023

Order No.: 4556001229/240

Date : 21/02/2023

Report Issued To : **CALCOM CEMENT INDIA LIMITED**

(Unit of Dalmia Cement (Bharat) Ltd.)

Village: Jamunagar-16 Kilo, Umrangso, Dist.- Dima Hasao; Assam- 788931

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : CCIL/2023/DW-0602/01

Sample Source : Badminton Court

Sample Type : Drinking Water (RO)

Collected On : 06-02-2023

Received On : 08-02-2023

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Desirable Limit (IS:10500:2012)
01	Colour, Hazen Units, Max	<1	5
02	Odour	Odourless	Agreeable
03	Taste	Acceptable	Agreeable
04	Turbidity, NTU, Max	0.03	1.0
05	pH	6.67	6.5 – 8.5
06	Total Dissolved Solids, mg/l, Max	67	500
07	Aluminium (as Al), mg/l, Max	ND	0.03
08	Boron (as B), mg/l, Max	ND	0.5
09	Calcium (as Ca), mg/l, Max	10	75
10	Chloride (as Cl), mg/l, Max	2.3	250
11	Copper (as Cu), mg/l, Max	ND	0.05
12	Fluorides (as F), mg/l, Max	ND	1.0
13	Free Residual Chlorine, mg/l, Min	ND	0.2
14	Iron (as Fe), mg/l, Max	<0.001	0.3
15	Magnesium (as Mg), mg/l, Max	<1	30
16	Manganese (as Mn), mg/l, Max	ND	0.1
17	Zinc (as Zn), mg/l, Max	ND	5.0
18	Nitrate (as NO ₃), mg/l, Max	ND	45
19	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20	Sulfate (as SO ₄), mg/l, Max	<1	200
21	Total Alkalinity(as CaCO ₃), mg/l, Max	44	200
22	Total Hardness, (as CaCO ₃), mg/l, Max	7.2	200
23	Cadmium (as Cd), mg/l, Max	ND	0.003
24	Cyanide (as CN), mg/l, Max	ND	0.05
25	Lead (as Pb), mg/l, Max	ND	0.01
26	Mercury (as Hg), mg/l, Max	ND	0.001
27	Total Arsenic (as As), mg/l, Max	ND	0.01
28	Total Chromium, (as Cr), mg/l, Max	ND	0.05
29	E. Coli / 100 ml	NIL	Absent

Analysis Protocol: IS 3025
ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON

- 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.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/CCIL/DMH/22-23/DW-02/02

Order No.: 4556001229/240

Date : 23/02/2023

Date : 21/02/2023

Report Issued To : **CALCOM CEMENT INDIA LIMITED**

(Unit of Dalmia Cement (Bharat) Ltd.)

Village: Jamunagar-16 Kilo, Umrangso, Dist.- Dima Hasao; Assam- 788931

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : CCIL/2023/DW-0602/02

Sample Source : CCR
(25.51203, 92.76375)

Sample Type : Drinking Water (RO)

Collected On : 06-02-2023

Received On : 08-02-2023

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Desirable Limit (IS:10500:2012)
01	Colour, Hazen Units, Max	<1	5
02	Odour	Odourless	Agreeable
03	Taste	Acceptable	Agreeable
04	Turbidity, NTU, Max	0.02	1.0
05	pH	6.69	6.5 – 8.5
06	Total Dissolved Solids, mg/l, Max	62	500
07	Aluminium (as Al), mg/l, Max	ND	0.03
08	Boron (as B), mg/l, Max	ND	0.5
09	Calcium (as Ca), mg/l, Max	8	75
10	Chloride (as Cl), mg/l, Max	2.9	250
11	Copper (as Cu), mg/l, Max	ND	0.05
12	Fluorides (as F), mg/l, Max	<0.1	1.0
13	Free Residual Chlorine, mg/l, Min	ND	0.2
14	Iron (as Fe), mg/l, Max	<0.001	0.3
15	Magnesium (as Mg), mg/l, Max	<1	30
16	Manganese (as Mn), mg/l, Max	ND	0.1
17	Zinc (as Zn), mg/l, Max	ND	5.0
18	Nitrate (as NO ₃), mg/l, Max	ND	45
19	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20	Sulfate (as SO ₄), mg/l, Max	<1	200
21	Total Alkalinity (as CaCO ₃), mg/l, Max	41	200
22	Total Hardness, (as CaCO ₃), mg/l, Max	6.3	200
23	Cadmium (as Cd), mg/l, Max	ND	0.003
24	Cyanide (as CN), mg/l, Max	ND	0.05
25	Lead (as Pb), mg/l, Max	ND	0.01
26	Mercury (as Hg), mg/l, Max	ND	0.001
27	Total Arsenic (as As), mg/l, Max	ND	0.01
28	Total Chromium, (as Cr), mg/l, Max	ND	0.05
29	E. Coli / 100 ml	NIL	Absent



Analysis Protocol: IS 3025
ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON

- 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.
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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Patient Name

Sardar Tamung

Date

10/06/22

Age

51

Gender

M

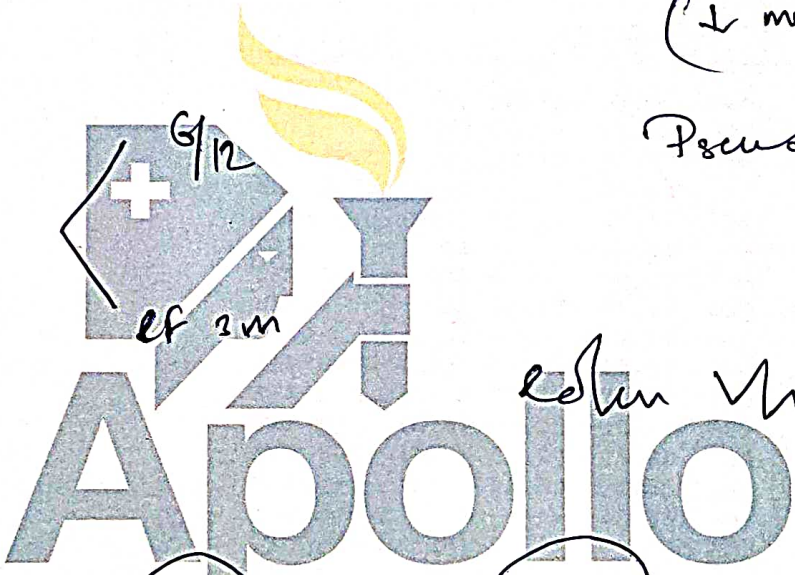
40 DDM (OS)

H/O HTN

(↓ medication)

Pseudophakia (OS)

✓₂



9/12
ef 3m

Return Vh (Normal)

0 WNL 0

TOUCHING GLASSES

Refined to see my



Next appointment on:

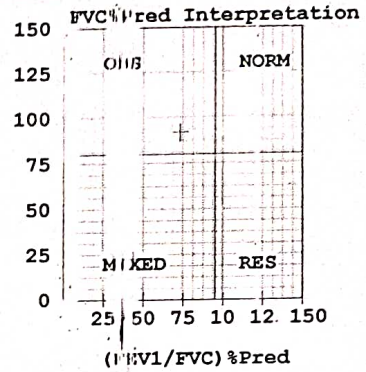
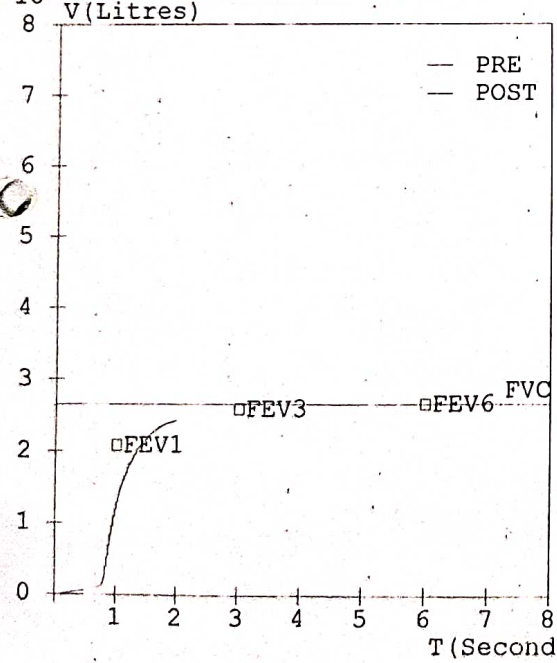
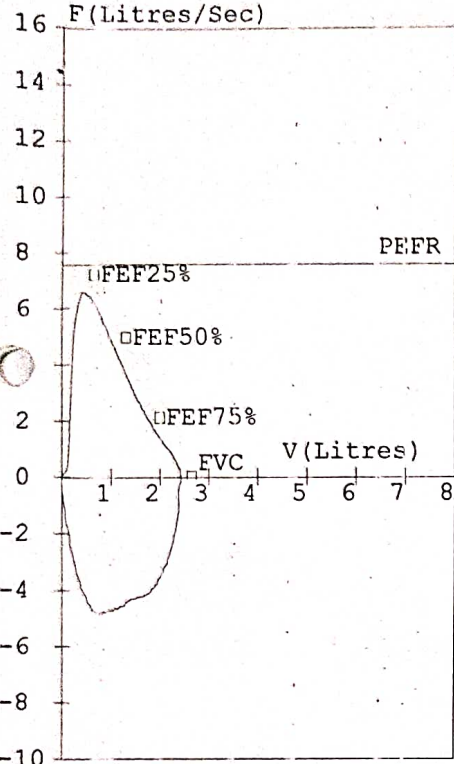
APOLLO CLINIC

Bora Service, Ulubari, Guwahati



Patient: SARDAR TUMUNG
 Refd. By:
 Pred. Eqns: RECORDERS
 Date : 10-Jun-2022 02:53 PM

Age : 51 Years Gender : Male
 Height : 157 Cms Smoker : Yes
 Weight : 53 Kgs Eth. Corr: 100
 ID: UMG2 Temp :



Spirometry (FVC Results)							
Parameter		Pred	M. Pre	%Pred	M. Post	%Pred	%Imp
FVC	(L)	02.65	02.43	092	---	---	---
FEV1	(L)	02.08	01.40	067	---	---	---
FEV1/FVC	(%)	78.49	57.61	073	---	---	---
FEF25-75	(L/s)	03.20	03.53	110	---	---	---
PEFR	(L/s)	07.54	06.49	086	---	---	---
FIVC	(L)	-----	02.44	---	---	---	---
FEV.5	(L)	-----	00.08	---	---	---	---
FEV3	(L)	02.57	02.43	095	---	---	---
PIFR	(L/s)	-----	04.84	---	---	---	---
FEF75-85	(L/s)	-----	01.42	---	---	---	---
FEF.2-1.2	(L/s)	05.48	05.35	098	---	---	---
FEF 25%	(L/s)	07.20	06.23	087	---	---	---
FEF 50%	(L/s)	04.95	03.98	080	---	---	---
FEF 75%	(L/s)	02.09	01.85	089	---	---	---
FEV.5/FVC	(%)	-----	03.29	---	---	---	---
FEV3/FVC	(%)	96.98	100.00	103	---	---	---
FET	(Sec)	-----	01.99	---	---	---	---
ExplTime	(Sec)	-----	00.04	---	---	---	---
Lung Age	(Yrs)	051	068	133	---	---	---
FEV6	(L)	02.65	-----	---	---	---	---
FIF25%	(L/s)	-----	04.00	---	---	---	---
FIF50%	(L/s)	-----	04.53	---	---	---	---
FIF75%	(L/s)	-----	04.61	---	---	---	---

Flow volume are within normal

Pre Medication Report Indicates Moderate Obstruction as (FEV1/FVC)%Pred <84 and FVC%Pred >80

R.K. Life Services Pvt Ltd. (CIN. No : U85110AS2002PTC006987)

Apollo Clinic
 Kanchan Road, Opp. Bora Service,
 G.S. Road, Guwahati- 781007
 Phone : (0361) 248 1473 - 74

Apollo Clinic
 Sidha Point, S.J. Road
 Athgaon, Opp. Marwari Hospital
 Phone : 9085619000(M)
 www.apolloclinic.com



Home Blood Collection & Delivery of reports
 98641 12000 / 94356 23456

Accredited as per ISO - 15189 : 2012 - NABL Standards
 1ST NABL ACCREDITED LABORATORY IN ASSAM

Patient Name: Mr. Sardar Tumung
Visit No: FGUWOPV199371
Cond Doctor: Dr. NIRMAL K BHATTACHARJEE
Referred By: SELF

MR No: FGUW.0000123195
Age/Gender: 51 Y/M
Conducted Date: 28-06-2022 14:49
Prescribing Doctor:

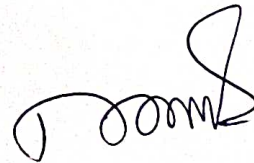
ECG

RESULTS

1. The rhythm is sinus
2. Heart rate is 70 beats per minute
3. Normal P,QRS,T wave axis
4. Normal PR,QRS,QT duration
5. No pathological Q wave or ST - T changes seen
6. No evidence of chamber hypertrophy or enlargement seen

IMPRESSION RESTING ECG FINDINGS ARE WITHIN NORMAL LIMITS.

Medical report



**Dr. Nirmal K Bhattacharjee, MD.D.Card.
Consultant Cardiologist**

R.K. Life Services Pvt Ltd. (CIN. No : U85110AS2002PTC006987)

Apollo Clinic
Kanchan Road, Opp. Bora Service,
G.S. Road, Guwahati- 781007
Phone : (0361) 248 1473 - 74
E-mail : guwahati@theapolloclinic.com

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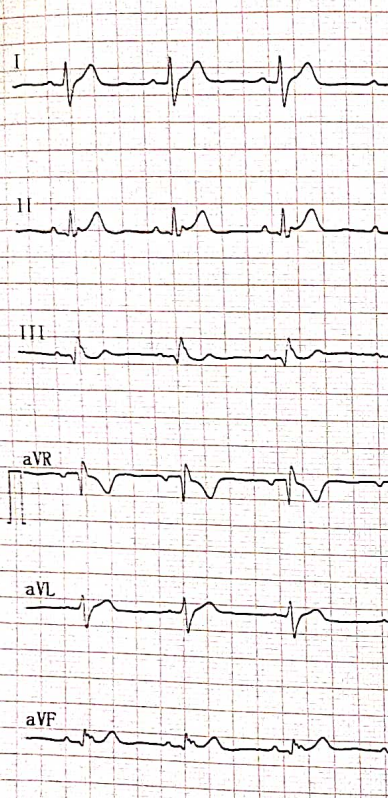
Accredited as per ISO - 15189 : 2012 - NABL Standards
1ST NABL ACCREDITED LABORATORY IN ASSAM

1ST NABL ACCREDITED LABORATORY IN ASSAM

570-10mm/mV

10mm/mV

rms

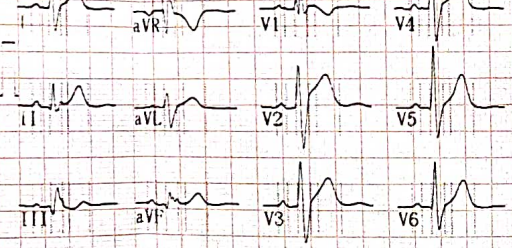


2022-06-10 15:15
 Name: sardar tumung
 Sex: Male Age: 51
 Section:
 RoomID:
 BedID:
 ID: 2
 Operator:
 Custom1:
 Custom2:
 Custom3:

Data for reference only:

HR	bpm	: 70
PR-Interval	ms	: 151
P Duration	ms	: 74
QRS Duration	ms	: 100
T Duration	ms	: 177
QT/QTc	ms	: 335/362
P/QRS/T Axis	deg	: 53.3/105.0/34.2
R(V5)/S(V1)	mV	: 1.14/0.00
R(V5)+S(V1)	mV	: 1.14

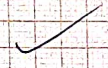
10mm/mV 25mm/s



<< Conclusions >>

Normal Sinus Rhythm;
 Longitudinal Right axis deviation.

****Report need physician confirm****



25mm/s EMC25Hz+DFT

Physician: _____

Patient Name : Mr. Sardar Tumung
UHID/MR No. : FGUW.0000123195
Visit Date : 13-06-2022 13:33
Sample Collected on : 13-06-2022 13:37
Ref Doctor : SELF
Package Name : DALMIA BHARAT CEMENT AMC - GUWAHATI BORA
Emp/Auth/TPA ID : 02
Sponsor Name : DALMIA CEMENT BHARAT LIMITED

Age / Gender : 51Y/Male
OP Visit No : FGUWOPV199371
Reported on : 13-06-2022 18:23
Specimen : Whole Blood (Edta)
Pres Doctor: :


DEPARTMENT OF LABORATORY MEDICINE

TEST NAME	RESULT	BIOLOGICAL REFERENCE INTERVALS	UNITS
HAEMOGLOBIN HAEMOGLOBIN: Method: Non Cyanide	14.5	13 - 17	gm/dl

End of the report

Results are to be correlated clinically

Lab Technician / Technologist
Nishant_Gogoi


Dr. Alankrita Deka
MD Pathology



Patient Name : Mr. Sardar Tumung
 UHID/MR No. : FG UW.0000123195
 Visit Date : 13-06-2022 13:33
 Sample Collected on : 13-06-2022 13:37
 Ref Doctor : SELF
 Emp/Auth/TPA ID : 02
 Sponsor Name : DALMIA CEMENT BHARAT LIMITED

Age / Gender : 51Y/Male
 OP Visit No : FG UWOPV199371
 Reported on : 13-06-2022 17:58
 Specimen : Serum
 Pres Doctor: :


DEPARTMENT OF LABORATORY MEDICINE

TEST NAME	RESULT	BIOLOGICAL REFERENCE INTERVALS	UNITS
LIPID PROFILE TEST (PACKAGE)			
S.Cholesterol	173.5	< 200 Desirable 200-239 Borderline High ≥240 High	mg/dl
S.Triglyceride	87.0	<150 Desirable 150-199 Borderline High 200-499 High >500 Very High	mg/dl
S.VLDL-Cholesterol	17.4	10 - 40	mg/dl
S.HDL-Cholesterol	49.3	<40 (Man) - Poor <50 (Women) - Poor 40-49 (Man) - Good 50-59 (Women) - Good ≥60 - Best	mg/dl
S.LDL-Cholesterol	109.0	<100 Ideal for people at risk of heart disease 100 - 129 Near Ideal 130 - 159 Borderline High 160 - 189 high ≥190 Very High	mg/dl
Ratio of Cholesterol/HDL Method: Calculated.	3.52	0 - 4.5	

End of the report

Results are to be correlated clinically

Lab Technician / Technologist
Rupen_Das

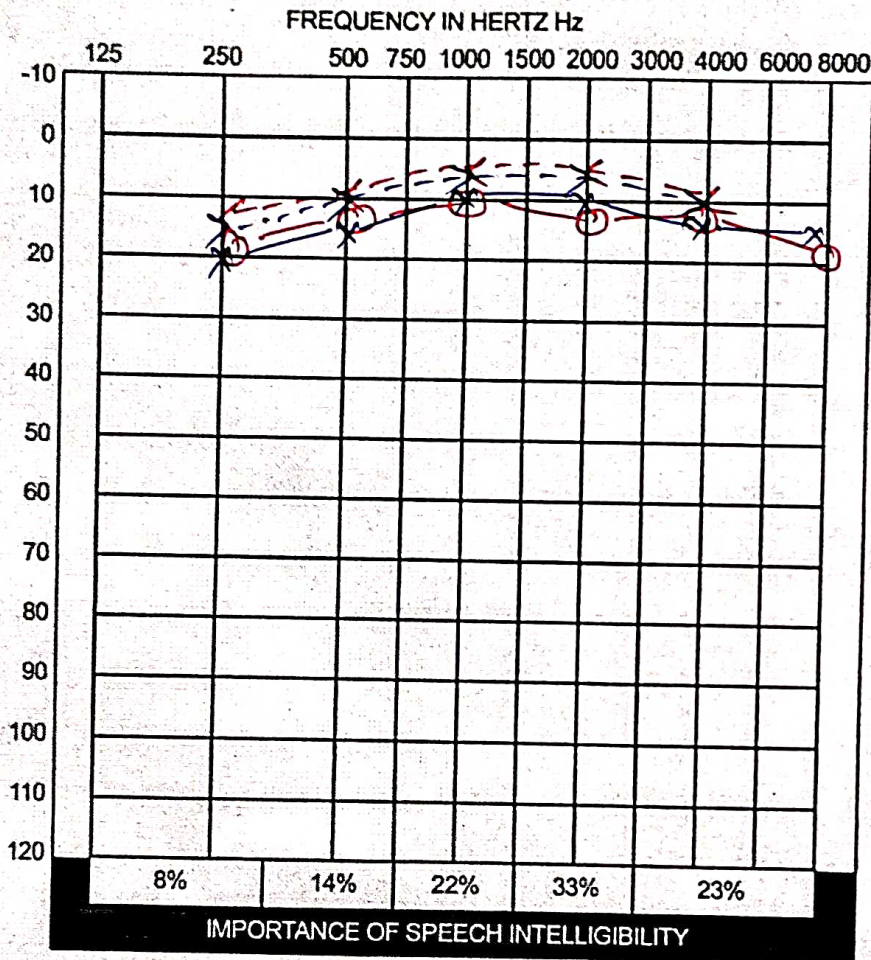

Dr. Alankrita Deka
MD Pathology

AUDIOGRAM

Doctor / Audiologist

Name: Sardar Humung Age 51 Sex m

Address: _____ Date 10.6.22



- NORMAL/MINIMAL HEARING LOSS**
Ability to understand speech
- MILD HEARING LOSS**
No significant difficulty with faint speech
- MODERATE HEARING LOSS**
Difficulty only with faint speech
Amplification needed
- MODERATELY SEVERE HEARING LOSS**
Frequent difficulty with normal speech
- SEVERE HEARING LOSS**
Frequent difficulty with loud speech
Understand only shouted or amplified speech
- PROFOUND HEARING LOSS**
May not understand every amplified speech
- <Value List Missing>

SPEECH RESULT				
Speech Reception Threshold (SRT)	Most Comfortable Level (MOL)	Un Comfortable Level (UOL)	Word Discrimination Percentage	Discrimination Level (dB)
Right				
Left				
Binaural				
Unaided Boundfield				
Aided Boundfield				

AUDIOGRAM KEY									
	L	R	NRL	NRR		L	R	NRL	NRR
Air Condition	X	O	X↘	O↘	Bone Conduction Forehead	V	V	V↘	O↘
Air Condition Masked	□	△	□↘	△↘	Bone Conduction Forehead Mask	Γ	Γ	Γ↘	Δ↘
Bone Conduction	>	<	↘	↘	Threshold of Discomfort Pure	●	●	●↘	●↘
Bone Conduction Masked] [] [↓	↓					

COMMENTS

Bil. normal hg.

Patient Name: Mr. Sardar Tumung

MR No: FGUW.0000123195

Age / Sex: 51 Y/M

Bill Date: 11-June-2022

Ref. by: SELF

CHEST (PA VIEW)

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.

- RADIOGRAPH IS ESSENTIALLY WITHIN NORMAL LIMITS.



Dr. Sandeepan Nath
Consultant Radiologist



Report No.: ENV/CCIL/DMH/22-23/RW-02/01

Order No.: 4556001229/240

Date : 23/02/2023

Date : 21/02/2023

Report Issued To : **CALCOM CEMENT INDIA LIMITED**

(Unit of Dalmia Cement (Bharat) Ltd.)

Village: Jamunagar-16 Kilo, Umrangso, Dist.- Dima Hasao; Assam- 788931

RAW WATER ANALYSIS RESULTS

Sample Ref. No. : CCIL/2023/RW-0602/01

Sample Source : 12 Kilo Well
(25.51087, 92.73624)

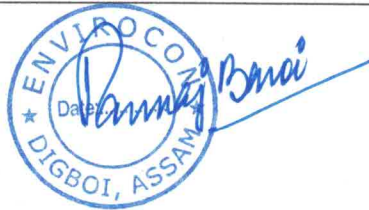
Sample Type : Ground Water

Collected On : 06-02-2023

Received On : 08-02-2023

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Desirable Limit (IS:10500:2012)
01	Colour, Hazen Units, Max	1	5
02	Odour	Odourless	Agreeable
03	Taste	Acceptable	Agreeable
04	Turbidity, NTU, Max	0.14	1.0
05	pH	6.59	6.5 – 8.5
06	Total Dissolved Solids, mg/l, Max	98	500
07	Aluminium (as Al), mg/l, Max	ND	0.03
08	Boron (as B), mg/l, Max	ND	0.5
09	Calcium (as Ca), mg/l, Max	36	75
10	Chloride (as Cl), mg/l, Max	6.6	250
11	Copper (as Cu), mg/l, Max	ND	0.05
12	Fluorides (as F), mg/l, Max	0.3	1.0
13	Free Residual Chlorine, mg/l, Min	ND	0.2
14	Iron (as Fe), mg/l, Max	0.28	0.3
15	Magnesium (as Mg), mg/l, Max	4	30
16	Manganese (as Mn), mg/l, Max	ND	0.1
17	Zinc (as Zn), mg/l, Max	ND	5.0
18	Nitrate (as NO ₃), mg/l, Max	5.9	45
19	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20	Sulfate (as SO ₄), mg/l, Max	22	200
21	Total Alkalinity(as CaCO ₃), mg/l, Max	108	200
22	Total Hardness, (as CaCO ₃), mg/l, Max	141	200
23	Cadmium (as Cd), mg/l, Max	ND	0.003
24	Cyanide (as CN), mg/l, Max	ND	0.05
25	Lead (as Pb), mg/l, Max	ND	0.01
26	Mercury (as Hg), mg/l, Max	ND	0.001
27	Total Arsenic (as As), mg/l, Max	ND	0.01
28	Total Chromium, (as Cr), mg/l, Max	ND	0.05
29	E. Coli / 100 ml	NIL	Absent



Analysis Protocol: IS 3025
ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/CCIL/DMH/22-23/RW-11/02

Date : 23/02/2023

Order No.: 4556001229/240

Date : 21/02/2023

Report Issued To : **CALCOM CEMENT INDIA LIMITED**

(Unit of Dalmia Cement (Bharat) Ltd.)

Village: Jamunagar-16 Kilo, Umrangso, Dist.- Dima Hasao; Assam- 788931

RAW WATER ANALYSIS RESULTS

Sample Ref. No. : CCIL/2023/RW-0602/02

Sample Source : N. Stream (VCL Mines)
(25.51087, 92.73624)

Sample Type : Raw Water

Collected On : 06-02-2023

Received On : 08-02-2023

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Desirable Limit (IS:10500:2012)
01	Colour , Hazen Units, Max	2	5
02	Odour	Odourless	Agreeable
03	Taste	Acceptable	Agreeable
04	Turbidity, NTU, Max	0.73	1.0
05	pH	6.66	6.5 – 8.5
06	Total Dissolved Solids, mg/l, Max	119	500
07	Aluminium (as Al), mg/l, Max	ND	0.03
08	Boron (as B), mg/l, Max	ND	0.5
09	Calcium (as Ca), mg/l, Max	26	75
10	Chloride (as Cl), mg/l, Max	4.9	250
11	Copper (as Cu), mg/l, Max	ND	0.05
12	Fluorides (as F), mg/l, Max	<0.1	1.0
13	Free Residual Chlorine, mg/l, Min	ND	0.2
14	Iron (as Fe), mg/l, Max	<0.001	0.3
15	Magnesium (as Mg), mg/l, Max	2	30
16	Manganese (as Mn), mg/l, Max	ND	0.1
17	Zinc (as Zn), mg/l, Max	ND	5.0
18	Nitrate (as NO ₃), mg/l, Max	0.5	45
19	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20	Sulfate (as SO ₄), mg/l, Max	<1	200
21	Total Alkalinity(as CaCO ₃) , mg/l, Max	46	200
22	Total Hardness, (as CaCO ₃), mg/l, Max	29	200
23	Cadmium (as Cd), mg/l, Max	ND	0.003
24	Cyanide (as CN), mg/l, Max	ND	0.05
25	Lead (as Pb), mg/l, Max	ND	0.01
26	Mercury (as Hg), mg/l, Max	ND	0.001
27	Total Arsenic (as As), mg/l, Max	ND	0.01
28	Total Chromium, (as Cr), mg/l, Max	ND	0.05
29	E. Coli / 100 ml	NIL	Absent



Analysis Protocol: IS 3025
ND: Not Detected

Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

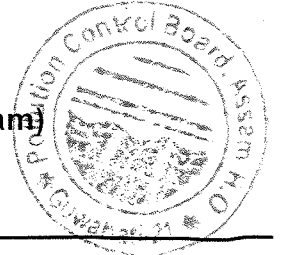


Pollution Control Board:: Assam Bamunimaidam; Guwahati-21

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

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

Website: www.pcbassam.org



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

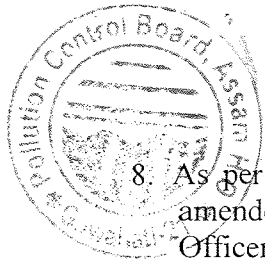
- vi) D.G. Set : 1 x 1250 KVA

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

Handwritten signature or initials at the bottom of the page.



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:

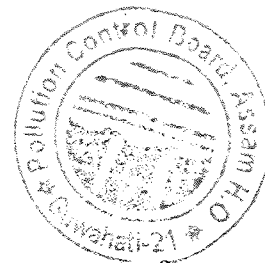
Limit in dB (A) Leq	
Day Time (6:00AM-10:00PM)	Night Time (10:00PM-6:00AM)
75	70

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_{2.5}, PM₁₀, SO₂ & NO₂ 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 ₁₀ (µg/m ³)	Annual* 24 hours**	60 100	60 100
2.	Particulate Matter (size less than 2.5µg) or PM _{2.5} (µg/m ³)	Annual* 24 hours**	40 60	40 60
3.	Sulphur Dioxide (SO ₂)	Annual* 24 hours**	50 80	20 80
4.	Nitrogen Dioxide (NO ₂)	Annual* 24 hours**	40 80	30 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 30th 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*

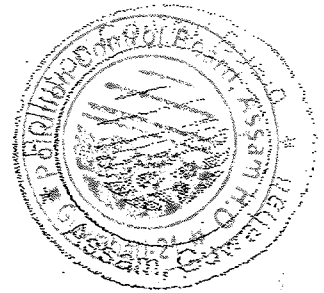
- ✓ 1. M/s Vinay Cement Ltd., 16 Kilo, Jamuna Nagar, Umrangsho, Dist. Dima Hasao, Assam-788931 – for information and compliance of conditions.

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 11th 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: ¹⁰⁹³

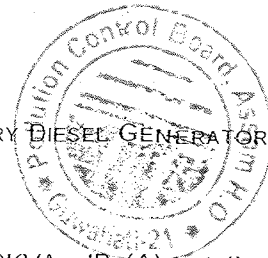
Dated Guwahati, the 11th Nov, 2021

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), 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)

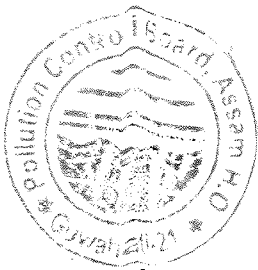
Area Code	Category of Area	Limit in dB(A) Leq.	
		Day time	Night time
A.	Industrial area	75	70
B.	Commercial area	65	55
C.	Residential area	55	45
D.	Silence Zone	50	40

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 ₂ : 80* $\mu\text{g}/\text{m}^3$	120* : $\mu\text{g}/\text{m}^3$	30* : $\mu\text{g}/\text{m}^3$
NO ₂ : 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.

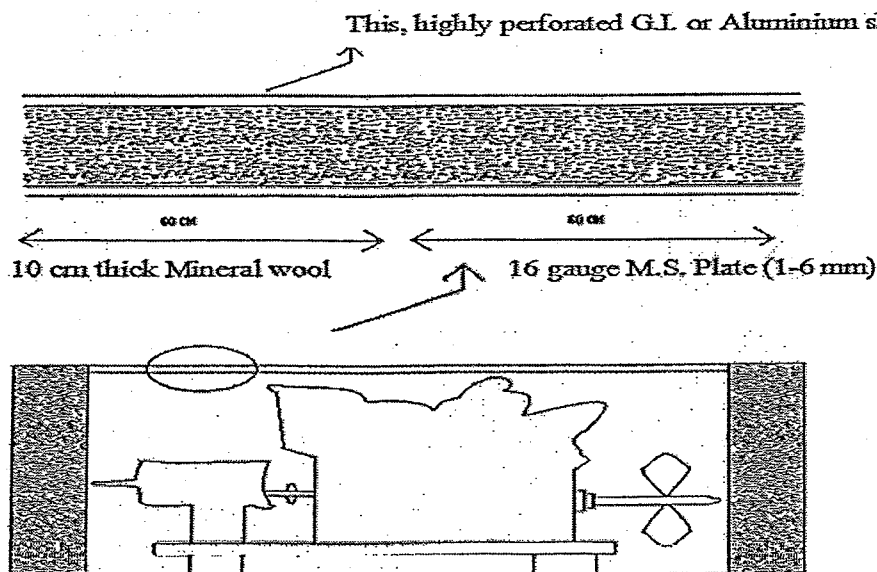


Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

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.

Report No. : ENV/VLC/DMH/22-23/AA-02/01

Date : 23/02/2023

Order No. : 4556001229/240

Date : 21/02/2023

Report Issued To: **VCL LIMITED**

[Unit of Dalmia Cement (Bharat) Ltd.]

Vill.: Jamunagar-16 Kilo, Umrangso, Dist.: Dima Hasao, Assam- 788931

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	NH ₃ (µg/m ³)	CO (mg/m ³)	O ₃ (µg/m ³)	B(a)P (ng/m ³)	C ₆ H ₆ (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Pb (µg/m ³)
LIMITS →	--	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
On Main Haul Road Near Maa Kali Mandir	04.02.2023	25.9	52.8	6.9	7.6	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
On Haul Road Inside Mines Near View Point	04.02.2023	28.4	54.1	7.3	8.5	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
On Haul Road Near Mines Weigh Bridge	04.02.2023	18.6	47.6	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By: Pankaj Baroi, ENVIROCON

- 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.

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