

Ref: CCL/L/EHS/14/2022-23

Date: 01.06.2023

To,

The Regional Officer,
Ministry of Environment Forest & Climate Change,
Integrated Regional Office – Guwahati,
4th Floor, HOUSEFED Building, GS Road,
Rukminigaon, Guwahati - 781022

Subject: Submission of six-monthly compliance report against condition of environment Clearance letter of Standalone Cement Grinding Unit (Expansion in Cement Production Capacity of Existing Unit from 1.72 Million TPA to 5.9 Million TPA) of **M/S Calcom Cement India Limited** at Pipalpukhuri, Lanka, District-Nagaon, Assam-782446.

Ref: (i) EC Identification No. - EC22B009AS121520, File No. - SEIAA. 2046/2022 Dated - 19/05/2022, Proposal No. SIA/AS/IND/253482/2022 dated 03 Mar 2022.

(ii) SEIAA. 2046/2022/1643 Dated - 22/07/2022 (Amendment)

(iii) SEIAA. 2046/2022/1674 Dated - 02/09/2022 (Amendment)

(iv) MOEF, New Delhi Environment Clearance F. No. J-11011/312/2006-IA-II (I) Dated 26th July 2007.

Dear Sir,

With reference to stipulation of Environment Clearance, please find enclosed herewith the compliance report period from 1st October 2022 to 31st March 2023 for Calcom Cement India Limited, Lanka. and enclosing herewith soft copy of same for your records, the compliance report will be uploaded in our website www.dalmiabharat.com within 15 days.

Kindly acknowledge the receipt of same.

Thanking you,

Yours faithfully,

For Calcom Cement India Limited



Authorized signatory Lanka unit.

Enclose: A copy of Six Monthly Environment compliance report & Annexures.

CC to: 1) The Regional Executive Engineer, RO, Pollution control Board, Nagaon, Assam.
2) The In-Charge, CPCB) North Eastern, Zonal Office, Shillong, Meghalaya 793014.

Calcom Cement India Limited

Subsidiary of Dalmia Cement (Bharat) Limited

Village - No. 2, Pipal Pukhuri, Lanka, District Hojai - 782446, (Assam) India

W www.dalmiacement.com CIN: U26942AS2004PLC007538

Registered Office: 3rd & 4th Floor, Anil Plaza II, ABC, G.S. Road, Guwahati-781005, (Assam) India

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

Calcom Cement India Limited

(Subsidiary of DALMIA CEMENT BHARAT LIMITED)

2 No. Pipalpukhuri, Lanka, Dist. – Hojai, Assam – 782446

Ref: (i) EC Identification No. - EC22B009AS121520, File No. - SEIAA. 2046/2022 Dated - 19/05/2022,

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(iv) MOEF, New Delhi Environment Clearance F. No. J-11011/312/2006-IA-II (I) Dated 26th July 2007.

Period of Compliance – 1st October 2022 to 31st March 2023 – EC to Standalone Cement Grinding Unit (Expansion in Cement Production Capacity of Existing Unit from 1.72 Million TPA to 5.9 Million TPA) of M/S Calcom Cement India Limited at Pipalpukhuri, Lanka, District-Nagaon, Assam-782446.

The Grinding Unit of 1.72 Million TPA is under operation. Expansion was proposed in two phases, Phase-1 from 1.72 Million TPA to 3.69 Million TPA establishment is in progress and new line of 2.21 Million TPA will be establish after completion of phase-1.

SN	Environmental Stipulations	Compliance Status
A. Specific condition		
1.	Bag house/Bag filters shall be provided to cement mill and packing plant to control SPM emission. Bag filter shall be provided in coal crusher, coal drying and grinding unit, hopper, cement silo, cement silo top, packing plant and at other places including transfer points, venting auxiliaries etc. to reduce particulate matter. Performance study of pollution control devices shall be conducted yearly to ensure their efficiency.	<ul style="list-style-type: none"> We have/will be installed adequate pollution control equipment in order to control and keep emission levels within the prescribed emission standards. Existing Cement Mill-1 and Cement Mill-2 are fully equipped with the efficient bag houses. Bag filters have also been /will be installed at all material handling and transfer points such as coal crusher, coal drying and grinding unit, hopper, cement silo, cement silo top, packing plant etc. Interlocked systems have been/will be provided at all major Air Pollution Control Equipment for auto shutdown in case of failure of any pollution control equipment.
2.	Continuous monitoring system to monitor gaseous emission shall be provided and limit shall be conforming to the prescribed standards framed by MoEF/CPCB by installing adequate air pollution control system. Data on ambient air quality stack emissions and fugitive emissions shall be displayed in public domain and also regularly submitted online to SEIAA, Assam & regional office of IRO-MoEF & CC, Guwahati and Central Pollution Control Board (CPCB) as well as hard copy once in six months.	<ul style="list-style-type: none"> Being Complied Adequate air pollution control systems have been installed to control the emission level within the prescribed standards MoEFCC/CPCB. The monitoring is being done to conform the same. Opacity meters have been installed on the stack of Cement Mill-1 & Cement Mill-2 for monitoring the PM and the Continuous Stack Emissions Monitoring Systems have been connected to CPCB & PCB, Assam server. The same will also be installed in new mill To continuously monitor the Ambient Air Quality, Continuous Ambient Air Monitoring Systems has

		<p>been already installed in plant premises.</p> <ul style="list-style-type: none"> • The Continuous Ambient Air Monitoring System has been connected to PCB, Assam and the monitoring data are being transmitted regularly to PCB, Assam Servers. • Data of ambient air quality monitoring are being displayed on display board installed at main gate. • Ambient Air Quality is being monitored at four locations (Packing Plant, Front of General Store, Near 2No. Gate and Main Gate) in consultation with PCB, Assam. • The stack Monitoring report is attached as Annexure-I. • The details of Ambient Air Quality Monitoring are attached in Annexure-II.
3.	<p>The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw material handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Coal crushers shall be operated with high efficiency bag filters. All conveyors shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyors for transporting of raw materials shall be provided.</p>	<ul style="list-style-type: none"> • Pollution control equipments have been installed at various emission source /stack as specified, to control and keep emission levels within the prescribed emission standards. • Cement dust collected from Pollution control devices being recycled back into the process. • All the raw materials and product are being / will be stored in covered storage yard / silos. • The materials are transferred internally with fully covered conveyor belt. • Coal crusher will be installed and operated with high efficiency bag filters.
4.	<p>Dust suppression by regular water sprinkling shall be carried out in plant areas prone to air pollution and having high SPM and RPM such as haul road, loading and unloading points, transfer points and other vulnerable area to control fugitive emissions. Fugitive emissions shall also be controlled by dust suppression and water sprinkling system. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central pollution control board in this regard.</p>	<ul style="list-style-type: none"> • Environment control Measures are being undertaken to control the fugitive emission within the standard prescribed by the Central pollution control board • Vacuum sweeping machine is being used for cleaning of paved roads and proper house-keeping is being maintained to control fugitive dust emissions. • All roads have been concreted (Plant Internal & External roads). • 03 No of water tankers are engaged for dust suppression purposes • Used covered vehicle for raw material and finished goods transportation. • All conveyor belts are fully covered. • Efficient Bag filters (29 Nos) are/will be installed at all loading, unloading and all transfer points. • All the raw materials and product are being / will be stored in covered storage yard / silos.

5.	Effort Shall be made to reduce impact of the transport of raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored.	<ul style="list-style-type: none"> • Used covered vehicle for raw material and finished goods transportation. • All conveyor belts are fully covered. • Overloading is avoided by the weighment system. • Vehicular emissions are being monitored regularly and PUC certified vehicles are used.
6.	Secondary fugitive emission from all the sources shall be controlled within the least permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.	<ul style="list-style-type: none"> • Being complied • All the pollution control measures are being undertaken to control fugitive dust emission as per guidelines/Code of Practice issued by the CPCB to keep emission level within the least permissible limits issued by the Ministry. • Secondary fugitive emission is being monitored regularly
7.	Efforts shall be made to reduce impact of transport of the raw materials and end products on the surrounding environment including agricultural land/Tea garden etc. All the raw materials including the fly ash shall be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored. Measures shall be taken for maintenance of vehicle used in mining operations and in transportation of mineral.	<ul style="list-style-type: none"> • This is the Cement grinding unit, there is no mine. • Used covered vehicle for raw material and finished goods transportation. • All conveyor belts are fully covered. • Overloading is avoided by the weighment system. • Vehicular emissions are being monitored regularly and PUC certified vehicles are used.
8.	Asphalting/Concreting of road and water spray all around the critical areas prone to air pollution and having high levels of SPM and RPM shall be ensured.	<ul style="list-style-type: none"> • All roads within plant have been concreted. • Vacuum sweeping machine is being used for cleaning of paved roads and proper house-keeping is being maintained to control fugitive dust emissions. • 03 No of water tankers are engaged for dust suppression purposes.
9.	Total water requirement from surface/ground water source shall not exceed 1100 KLD . Water efficient technology shall be provided to conserve water treated water shall be used in dust suppression and green belt development etc. 'ZERO' discharge shall be strictly adopted and no effluent shall be discharged.	<ul style="list-style-type: none"> • Total water requirement will not exceed 1100 m3/day. • Company is working on Zero liquid discharge concept and no waste water is discharged outside the plant premises. • No waste water is generated from the process. • Domestic waste water generated is disposed off into Sewage Treatment Plant. • Sewage Treatment plant with installed capacity 65 m3/day is under operation and the treated water is being utilized for the Dust suppression and green Belt development. • Drip irrigation has been installed to use the

		treated water for greenbelt/plantation.
10.	<p>Sewage treatment plant (STP) in proposed colony and in septic pits followed by soak pits in cement plant. All the treated water shall be used for gardening/agricultural purposes and dust suppression. Domestic waste from colony and solid waste (MSW) from industrial area shall be segregated into bio degradable and non-biodegradable. Bio-degradable waste shall be composted and non-biodegradable waste shall be disposed off in environment friendly manner or filled at identified sites only after proper treatment.</p>	<ul style="list-style-type: none"> • No waste water from the process is being discharged outside the premises. • Domestic waste water generated is being/will be diverted into Sewage Treatment Plants and septic tanks followed by soak pits. • STPs (3 Nos.) are installed at different location in plant area and guest house having capacities of 5, 10 and 50 KLD and all are under operation. The existing STPs are sufficient enough to cater the extra load after expansion. • The Treated water is being / will be used green belt development and plantation • STP sludge is being used as manure. • The domestic waste from colony and plant are being disposed off in environment friendly manner, • Bio degradable waste is being/will be disposed off in deep burial method and later it is being/will be used as manure. • Non-biodegradable waste is being / will be disposed off / sold to authorized recycler • Cement dust collected from air pollution control equipment is being/will be recycled into the process. • Grinding Unit is being/will be utilizing process waste generated by other industries i.e., fly ash from Thermal Power plant & Slag from Steel plants and help them in getting rid of voluminous waste in most sustainable manner by converting into useful product i.e., Cement.
11.	The Project proponent shall ensure that no natural water course shall be obstructed due to any operations.	<ul style="list-style-type: none"> • Being complied.
12.	Suitable conservation measures to Augment ground water resources in the area shall be planned and implemented in consultation with concerned authority.	<ul style="list-style-type: none"> • Being complied. • Waste water is being treated and used for green belt development. • Drip irrigation has also been/will be installed to use the treated water for greenbelt/plantation. • We have developed 18 Nos. of rain water harvesting pond and the collected water is being used within the plant for various activities. Rainwater from Roof top

		<p>are connected to the storm water drains and are connected to the harvesting ponds.</p> <ul style="list-style-type: none"> • Use of rain water will reduce dependency on ground water.
13.	The project proponent shall take appropriate mitigation measures to prevent pollution of nearby River and other surface water body, if any.	<ul style="list-style-type: none"> • Being complied. • Zero discharge • Domestic waste water is being/will be treated in Sewage Treatment plant and treated water is being/will be used for green belt. • STPs (3 Nos.) are installed at different location in plant area having capacities of 5, 10 and 50 KL/D and all are under operation.
14.	All the bag filter dust, coal dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Treated sewage shall be used as manure for green belt development. Waste oil, grease and scraped automobile batteries shall be provided to the authorized recyclers/re-processors.	<ul style="list-style-type: none"> • The dust collected from the various pollution control equipment is being recycled back into the process. • Treated STP sludge is being used as manure. • Oil, oil emulsion, used batteries are being sold to the authorized dealers.
16.	As proposed, green belt shall be developed in (33%) of the total land in the cement plant as per the CPCB guidelines in consultation with local DFO to mitigate the impact of fugitive emissions. A long-term plan for the plantation/ afforestation/ green belt development etc. shall be prepared and submitted to the SEIAA, Assam and IRO-MoEF & CC, Guwahati.	<ul style="list-style-type: none"> • Greenbelt/plantation is being developed in and around the plant boundary in consultation with local DFO to cover 33% of plant area i.e. 37.62 ha. Green belt/plantation has already been developed over an area of 31.35 Ha (27.5 %) and rest 6.27 ha of area is being/will be developed in line of the DFO approved green belt development plan and CPCB guidelines in a phased manner. • The DFO approved Green belt Development plan has been submitted in previous EC compliance report. (March - September 2022)
18	'Consent to Operate' shall be obtained from State Pollution Control Board, Assam.	<ul style="list-style-type: none"> • 'Consent to Operate' has been obtained for line-1 and will be obtained for the expansion. • Consent to Operate is attached as an annexure-III
19	Acoustic enclosures shall be provided to control noise wherever necessary. Noise shall be controlled from cooler fans, compressor house, cement mill and raw mill, cement plant using appropriate noise control measures.	<ul style="list-style-type: none"> • Noise control measures such as Acoustic hoods, silencers, enclosures etc. have been/will be provided on all sources of noise generation to ensure the noise level within the prescribed standards. • Regular noise level monitoring is being conducted at plant site at 6 locations viz., Administrative building, Main gate, Parking Area, Load Centre 1, Mechanical Workshop & Store and monitored data are well within the permissible limit. • The noise monitoring report is attached as Annexure- IV

20	All the recommendation made in the charter on corporate responsibility for environment (CREP) for the cement plant shall be implemented.	<ul style="list-style-type: none"> • Being/will be complied
21	The company shall comply with the commitment made during public consultation for the expansion project.	<ul style="list-style-type: none"> • Being complied

B. General Conditions.		
1.	The project authority must adhere to the stipulation made by State Pollution Control Board, Assam and State Government.	<ul style="list-style-type: none"> • We are committed to follow the stipulations made by Assam Pollution Control Board & State Government.
2.	No further expansion or modification of the plant shall be carried out without prior approval of SEIAA, Assam.	<ul style="list-style-type: none"> • Noted
3.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM ¹⁰ , PM ^{2.5} , SO ₂ and NO _x are anticipated in consultation with State Pollution Control Board, Assam. Data on ambient air quality and stack emissions shall be Submitted to the SEIAA, Assam including Regional office Shillong and State Pollution Control Board, Assam once in six months.	<ul style="list-style-type: none"> • We have installed one Online Ambient Air Quality Monitoring Stations at plant premises and Online data is being transmitted to PCB, Assam server. • Monitoring of Ambient Air Quality is being done regularly through third party recognized laboratory of PCBA at additional four Ambient Air Quality monitoring locations viz., Main Gate, Parking Area, Store Area and Near OHC • Monitored data of ambient air quality and stack emissions are being regularly submitted at IRO-MoEF & CC and PCBA Nagoan office with half yearly compliance report. • The stack Monitoring report is attached as Annexure-I. • The details of Ambient Air Quality Monitoring are attached as Annexure-II.
4.	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December 1993 or as amended from time to time. The treated waste water shall be utilized to plantation purpose.	<ul style="list-style-type: none"> • No effluent waste water is generated from the grinding unit as it is based on dry process technology.
5.	The overall noise levels in and around the plant area shall be kept well within the standard (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (Night time).	<ul style="list-style-type: none"> • Noise control measures such as Acoustic hoods, silencers, enclosures etc. have been provided on all sources of noise generation to ensure the noise level within the prescribed standards. • Regular noise level monitoring is being conducted at plant site at 6 locations viz., Administrative building, Main gate, Parking Area, Load Centre 1, Mechanical Workshop & Store and

		<p>monitored data are well within the permissible limit.</p> <ul style="list-style-type: none"> • The noise monitoring report is attached as Annexure– IV
6.	<p>Proper housekeeping and adequate occupational health programs must be taken up. Occupational health Surveillance Program shall be done on a regular basis and maintained records. The program must include function and sputum analysis tests once in sixth month.</p>	<ul style="list-style-type: none"> • Being complied. • Proper house-keeping is being maintained regularly. • Personal Protective Equipments (PPEs) are mandatory to all the workers. • Occupational Health Surveillance Program is being conducted annually and records are being maintained. • Lung function test and sputum analysis are also carried out. • Reports are being submitted along with the Six-monthly Compliance report. • The health checkup report has been attached as Annexure–V
7.	<p>The company shall harvest the rainwater from the roof tops and storm water drains for utilizing in the lean season besides recharging the ground water table.</p>	<ul style="list-style-type: none"> • Being complied. • We have developed 18 Nos. of rain water harvesting pond and the collected water is being used within the plant for various activities. Rainwater from Roof top are connected to the storm water drains and are connected to the harvesting ponds. • Use of rain water will reduce dependency on ground water.
8.	<p>The company shall undertake eco-development measures including community welfare measures in the project area.</p>	<ul style="list-style-type: none"> • ECO-development measures and community welfare measures are being undertaken by company in phased manner in the project area • We have prepared 360-degree program. It is being implemented in the project area. • Company has undertaken socio-economic development activities under CSR activity in nearby Villages. • 5-year CSR plan of R. 2.54 crore prepared for proposed expansion will be implemented after start of operation of expansion within stipulated time for betterment of nearby villagers. • The details of CSR activities undertaken is attached as Annexure-VI
9.	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.</p>	<ul style="list-style-type: none"> • We are complying & will comply all the environmental protection measures and safeguards recommended in the EIA/EMP.

10.	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	<ul style="list-style-type: none"> A separate environmental management cell has been established and an Environmental officer has also been deputed to execute and implement the entire environmental management plan for the plant. Only Grinding unit has been established so the full fledge Environmental Laboratory has not been established and Environmental Monitoring is being carried out by third party laboratory approved with PCB, Assam.
11.	Rs 15.61 Crores spent towards capital cost and as proposed Rs. 2.97 Crores earmarked towards recurring cost/annum for the environmental protection measures and Rs 2.54 Crores for CSR activities for five years to implement the conditions stipulated by the SEIAA, Assam as well as the Ministry & State Govt. and submit implementation schedule for all the conditions stipulated herein SEIAA, Assam. The funds so provided shall not be diverted for any other purposes.	<ul style="list-style-type: none"> Efficient Pollution Control Equipments and monitoring equipment have been installed. Efficient pollution control equipment and monitoring devices shall be ensured for expansion project. 5-year CSR plan of R. 2.54 crore prepared for proposed expansion will be implemented after start of operation of expansion within stipulated time for betterment of nearby villagers. The CSR activities is being implemented as per submitted 5-year CSR plan, however the allotted amount will be spent for CSR purpose only.
12.	The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, Assam. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to SEIAA, Assam & Regional office, MoEF at Shillong.	<ul style="list-style-type: none"> Public notice has been published in Assamiya Khabor (Assamese) & The Assam Tribune (English) on 25th May 2022. The copy of the published advertisement was submitted along with previous EC compliance report (March-September 2022).
13.	A copy of Clearance letter shall be sent by the proponent to concerned DC, Urban Local Body and the local NGO if any from whom suggestions/ representation if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	<ul style="list-style-type: none"> A copy of Environment Clearance letter has been sent to the DC and Urban Local Body. The copy of acknowledgement has been submitted along with previous EC compliance report (March-September 2022).
14.	The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the SEIAA, Assam, Regional office of the IRO-MoEF & CC, Guwahati, and PCB, Assam. The criteria pollutant levels namely: PM	<ul style="list-style-type: none"> Being Complied Half yearly compliance report of EC is being/will be submitted to concern body and also uploaded on website. Ambient Air Quality is being monitored at four locations (Packing Plant, Front of General Store,

	(Stack), PM ₁₀ , PM _{2.5} , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<p>Near 2No. Gate and Main Gate) in consultation with PCB, Assam.</p> <ul style="list-style-type: none"> • To continuously monitor the Ambient Air Quality, • Continuous Ambient Air Monitoring Systems has been already installed in plant premises. • The Continuous Ambient Air Monitoring System has been connected to PCB, Assam and the monitoring data are being transmitted regularly to PCB, Assam Servers. • Data of ambient air quality monitoring are being displayed on display board installed at main gate. • The details of Ambient Air Quality Monitoring are attached in Annexure-II.
15.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, Assam, & Regional office of MoEF, the respective Zonal Office of CPCB and the SPCB. The SEIAA, Assam/Regional Office of IRO-MoEF & CC, Guwahati, shall monitor the stipulated conditions.	<ul style="list-style-type: none"> • Being Complied.
16.	The environmental statement for each financial year ending 31 st March in form-V as is mandated to be submitted by the project proponent to the concerned SEIAA, Assam and PCB, Assam as prescribed under the environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall be sent to SEIAA, Assam and regional office of IRO-MoEF & CC, Guwahati.	<ul style="list-style-type: none"> • Being Complied
17.	The SEIAA, Assam may revoke or suspend the clearance if implementation of any of the above conditions is not found satisfactory.	<ul style="list-style-type: none"> • Noted.
18.	Any other conditions or alterations in the above conditions will have to be implemented by the project proponent in a time bound manner.	<ul style="list-style-type: none"> • Noted
19.	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 the Environment Protection Act, 1986 and the public Liability Insurance Act, 1991 along with their amendments and rules.	<ul style="list-style-type: none"> • Noted

Report No.: ENV/CCIL/NGN/22-23 /SE-09/01

Date : 06/01/2023

Order No.: 4557000844/311

Date : 30/12/2022

Report Issued To : **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist.- Nagaon, Assam- 782446

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	CAL/SE/2022/12-01		
02	Date of Sampling	22.12.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill – 1		
05	Stack Height From Ground Level (Meter)	50		
05	Stack Diameter (Meter)	1.5		
06	Flue Gas Temperature (°C)	64		
07	Exit Velocity of Gas (m/sec)	5.8		
08	Flow Rate (Nm³/hr)	32632		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
S. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	4.6	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL**	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL**	mg/Nm³	800

*NA: Not Applicable

**BDL: Below Detectable Limit



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.

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

Report No.: ENV/CCIL/NGN/22-23 /SE-09/02

Date : 06/01/2023

Order No.: 4557000844/311

Date : 30/12/2022

Report Issued To : **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist.- Nagaon, Assam- 782446**STACK EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	CAL/SE/2022/12-02		
02	Date of Sampling	22.12.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill – 2		
05	Stack Height From Ground Level (Meter)	50		
05	Stack Diameter (Meter)	1.5		
06	Flue Gas Temperature (°C)	69		
07	Exit Velocity of Gas (m/sec)	5.8		
08	Flow Rate (Nm³/hr)	29519		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
S. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	4.9	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL**	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL**	mg/Nm³	800

*NA: Not Applicable

**BDL: Below Detectable Limit

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Date : 06/01/2023

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

(Unit of Dalmia Cement (Bharat) Ltd.)

Pipalpukhuri, Dist.- Nagaon, Assam- 782446

D. G. SET EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	CAL/2022/DG-12/01		
02	Date of Sampling	23.12.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	DG Set 125 KVA/100 KW Make: Jakson Ltd., Sl. No.: 09040083		
05	Stack Height From Ground Level (Meter)	11.8		
05	Stack Diameter (Inch)	4.0 (approx)		
06	Flue Gas Temperature (°C)	132		
07	Exit Velocity of Gas (m/sec)	21.6		
08	Type of Fuel Used	H. S. D		
Analysis Results of Flue Gas				
S. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	0.029	g/kW-hr	0.3
ii.	NO _x + HC	0.82	g/kW-hr	4.0
iii.	Carbon Monoxide, (as CO)	0.63	g/kW-hr	3.5

NO_x : Oxides of Nitrogen

HC : Hydrocarbon



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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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.

Report No.: ENV/CCIL/NGN/22-23 /DG-12/02

Date : 06/01/2023

Order No.: 4557000844/311

Date : 30/12/2022

Report Issued To : **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist.- Nagaon, Assam- 782446

D. G. SET EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	CAL/2022/DG-12/02		
02	Date of Sampling	23.12.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	DG Set 380 KVA/304 KW Make: Jakson Ltd., Sl. No.: CJX-SDG-07080197		
05	Stack Height From Ground Level (Meter)	14.5		
05	Stack Diameter (Inch)	6.0 (approx)		
06	Flue Gas Temperature (°C)	135		
07	Exit Velocity of Gas (m/sec)	22.9		
08	Type of Fuel Used	H. S. D		
Analysis Results of Flue Gas				
S. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	0.026	g/kW-hr	0.3
ii.	NO _x + HC	0.73	g/kW-hr	4.0
iii.	Carbon Monoxide, (as CO)	0.38	g/kW-hr	3.5

NO_x : Oxides of Nitrogen

HC : Hydrocarbon



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/CCIL/NGN/22-23 /SE-03/01

Date : 27/03/2023

Order No.: 4557000844/311

Date : 30/12/2022

Report Issued To : **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist.- Nagaon, Assam- 782446**STACK EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	CAL/SE/2023/03-01		
02	Date of Sampling	15.03.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill – 1		
05	Stack Height From Ground Level (Meter)	50		
05	Stack Diameter (Meter)	1.5		
06	Flue Gas Temperature (°C)	50		
07	Exit Velocity of Gas (m/sec)	5.6		
08	Flow Rate (Nm³/hr)	32873		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
S. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	7.2	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL**	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL**	mg/Nm³	800

*NA: Not Applicable

**BDL: Below Detectable Limit

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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

Report No.: ENV/CCIL/NGN/22-23 /SE-03/02

Date : 27/03/2023

Order No.: 4557000844/311

Date : 30/12/2022

Report Issued To : **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist.- Nagaon, Assam- 782446**STACK EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	CAL/SE/2023/03-02		
02	Date of Sampling	15.03.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill – 2		
05	Stack Height From Ground Level (Meter)	50		
05	Stack Diameter (Meter)	1.5		
06	Flue Gas Temperature (°C)	56		
07	Exit Velocity of Gas (m/sec)	6.3		
08	Flow Rate (Nm³/hr)	35731		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
S. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	6.3	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL**	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL**	mg/Nm³	800

*NA: Not Applicable

**BDL: Below Detectable Limit

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/CCIL/NGN/22-23 /DG-03/01

Date : 27/03/2023

Order No.: 4557000844/311

Date : 30/12/2022

Report Issued To : **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist.- Nagaon, Assam- 782446**D. G. SET EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	CAL/2023/DG-03/01		
02	Date of Sampling	16.03.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	DG Set 125 KVA/100 KW Make: Jakson Ltd., Sl. No.: 09040083		
05	Stack Height From Ground Level (Meter)	11.8		
05	Stack Diameter (Inch)	4.0 (approx)		
06	Flue Gas Temperature (°C)	139		
07	Exit Velocity of Gas (m/sec)	20.8		
08	Type of Fuel Used	H. S. D		
Analysis Results of Flue Gas				
S. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	0.018	g/kW-hr	0.3
ii.	NO _x + HC	0.76	g/kW-hr	4.0
iii.	Carbon Monoxide, (as CO)	0.49	g/kW-hr	3.5

NO_x : Oxides of Nitrogen

HC : Hydrocarbon

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/CCIL/NGN/22-23 /DG-03/02

Date : 27/03/2023

Order No.: 4557000844/311

Date : 30/12/2022

Report Issued To : **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist.- Nagaon, Assam- 782446**D. G. SET EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	CAL/2023/DG-03/02		
02	Date of Sampling	23.12.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	DG Set 380 KVA/304 KW Make: Jakson Ltd., Sl. No.: CJX-SDG-07080197		
05	Stack Height From Ground Level (Meter)	14.5		
05	Stack Diameter (Inch)	6.0 (approx)		
06	Flue Gas Temperature (°C)	139		
07	Exit Velocity of Gas (m/sec)	22.1		
08	Type of Fuel Used	H. S. D		
Analysis Results of Flue Gas				
S. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	0.021	g/kW-hr	0.3
ii.	NO _x + HC	0.88	g/kW-hr	4.0
iii.	Carbon Monoxide, (as CO)	0.58	g/kW-hr	3.5

NO_x : Oxides of Nitrogen

HC : Hydrocarbon

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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

Pollution Monitoring Data of Calcom Cement India Limited(LCW)

From: 00:00, 01-Sep-2022

Upto: 00:00, 01-May-2023

Stack_1_Cement mill 1

Parameter Analyzer Status		
Usable	Calibration	Maintenance
Faulty		

Date & Time	Station	PM
HH:MM - HH:MM, DD MMM YYYY		mg / Nm3
		Avg
00:00, 01 Oct - 00:00, 01 Nov 2022	Stack_1_Cement mill 1	4.58
00:00, 01 Nov - 00:00, 01 Dec 2022	Stack_1_Cement mill 1	4.65
00:00, 01 Dec 2022 - 00:00, 01 Jan 2023	Stack_1_Cement mill 1	4.72
00:00, 01 Jan - 00:00, 01 Feb 2023	Stack_1_Cement mill 1	10.21
00:00, 01 Feb - 00:00, 01 Mar 2023	Stack_1_Cement mill 1	14.41
00:00, 01 Mar - 00:00, 01 Apr 2023	Stack_1_Cement mill 1	8.18

Pollution Monitoring Data of Calcom Cement India Limited(LCW)

From: 00:00, 01-Sep-2022

Upto: 00:00, 01-May-2023

Stack_2_Cement mill 2

Parameter Analyzer Status			
Usable	Calibration	Maintenance	Faulty
Date & Time		Station	PM
HH:MM - HH:MM, DD MMM YYYY			mg / Nm3
			Avg
00:00, 01 Oct - 00:00, 01 Nov 2022		Stack_2_Cement mill 2	1.47
00:00, 01 Nov - 00:00, 01 Dec 2022		Stack_2_Cement mill 2	1.42
00:00, 01 Dec 2022 - 00:00, 01 Jan 2023		Stack_2_Cement mill 2	1.41
00:00, 01 Jan - 00:00, 01 Feb 2023		Stack_2_Cement mill 2	16.53
00:00, 01 Feb - 00:00, 01 Mar 2023		Stack_2_Cement mill 2	19.28
00:00, 01 Mar - 00:00, 01 Apr 2023		Stack_2_Cement mill 2	18.84

Report No. : ENV/CCIL/NGN/22-23/AA-12/01

Date : 06/01/2023

Order No. : 4557000844/311

Date : 30/12/2022

Report Issued To: **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist- Nagaon, Assam- 782446

AMBIENT AIR QUALITY TEST RESULTS

LOCATION ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	NH ₃ (µg/m³)	CO (mg/m³)	O ₃ (µg/m³)	Benzene (µg/m³)	Benzopyrene (ng/m³)	Nickel (ng/m³)	Arsenic (ng/m³)	Lead (µg/m³)
LIMITS →	--	60	100	80	80	400	4.0 (1 hr. limit)	180 (1 hr. limit)	5.0 (Annual Average)	1.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Packing Area N 25°53'26.55438" E 92°58'27.96946"	22.12.2023	30.7	58.2	6.3	7.9	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Central Store Area N 25°53'32.42494" E 92°58'35.85436"	22.12.2023	27.6	56.5	5.5	6.8	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Security Gate 2 N 25°53'26.55809" E 92°58'41.14114"	23.12.2023	32.7	60.2	7.6	9.2	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Security Gate 1 N 25°53'31.43782" E 92°58'50.4736"	23.12.2023	31.4	59.4	7.1	8.9	<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**

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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.

Report No. : ENV/CCIL/NGN/22-23/AA-03/01
Date : 27/03/2023

Order No. : 4557000844/311
Date : 30/12/2022

Report Issued To: **CALCOM CEMENT INDIA LIMITED**
(Unit of Dalmia Cement (Bharat) Ltd.)
Pipalpukhuri, Dist- Nagaon, Assam- 782446

AMBIENT AIR QUALITY TEST RESULTS

LOCATION ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	NH ₃ (µg/m³)	CO (mg/m³)	O ₃ (µg/m³)	Benzene (µg/m³)	Benzopyrene (ng/m³)	Nickel (ng/m³)	Arsenic (ng/m³)	Lead (µg/m³)
LIMITS →	--	60	100	80	80	400	4.0 (1 hr. limit)	180 (1 hr. limit)	5.0 (Annual Average)	1.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Packing Area N 25°53'26.55438" E 92°58'27.96946"	15.03.2023	33.5	63.7	6.8	7.2	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Central Store Area N 25°53'32.42494" E 92°58'35.85436"	15.03.2023	26.4	58.2	6.1	6.4	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Security Gate 2 N 25°53'26.55809" E 92°58'41.14114"	16.03.2023	29.5	58.9	8.3	12.2	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Security Gate 1 N 25°53'31.43782" E 92°58'50.4736"	16.03.2023	32.4	65.1	9.3	14.6	<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**

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Pollution Monitoring Data of Calcom Cement India Limited(LCW)

From: 00:00, 01-Sep-2022

Upto: 00:00, 01-May-2023

Parameter Analyzer Status

Usable		Calibration				Maintenance			Faulty		
Date & Time	Station	PM2.5	PM10	SO2	NOx	Temperature	Relative Humidity	Total Rain	Solar Radiation	Wind Speed	Wind Direction
HH:MM - HH:MM, DD MMM YYYY		ug / m3	ug / m3	ug / m3	ug / m3	Deg C	%	mm	W/m2	mph	Deg
		Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
00:00, 01 Oct - 00:00, 01 Nov 2022	CAAQMS	4.83	21.59	11.10	4.23	44.96	79.26	0.32	248.49	2.59	240.65
00:00, 01 Nov - 00:00, 01 Dec 2022	CAAQMS	3.50	30.65	11.48	4.24	35.41	72.00	0.32	251.59	1.03	157.56
00:00, 01 Dec 2022 - 00:00, 01 Jan 2023	CAAQMS	7.46	46.29	11.77	4.27	34.42	66.93	0.32	196.09	1.74	218.91
00:00, 01 Jan - 00:00, 01 Feb 2023	CAAQMS	21.51	75.70	12.52	4.26	32.12	62.11	1.75	201.06	3.01	241.52
00:00, 01 Feb - 00:00, 01 Mar 2023	CAAQMS	20.83	79.50	12.48	4.35	26.60	67.62	4.59	162.21	33.00	220.05
00:00, 01 Mar - 00:00, 01 Apr 2023	CAAQMS	16.20	71.60	12.91	4.33	28.49	72.36	0.60	193.23	21.41	158.99



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/RONG/T-771/22-23/29

Dated Guwahati, the 14th March, 2023CONSENT TO OPERATE

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

- i) Name of unit : M/s. Calcom Cement India Ltd.
- ii) Name of the Occupier / Applicant and Designation : Uday Singh Rajput
Unit Head
- iii) Address of unit : 2 No. Pipulpukhuri, Lanka, Hojai, Assam-782446
- iv) Cost of the project : 54551.0 Lakhs
- v) Type and category of the Project : Cement Grinding Unit
(Red Category)
- vi) Details of the Project :

Sl.No.	Unit	Capacity
1.	Cement Mill-1	335 TPH
2.	Cement Mill-2	130 TPH

- vii) Details of Raw materials :

Sl. No.	Raw materials	Quantity
1	Clinker	2.10 MMTPA
2	Fly ash	1.20 MMTPA
3	Gypsum	0.17 MMTPA
4	Slag	0.96 MMTPA
5	Coal	0.14 MMTPA

- viii) Details of Products :

Sl. No.	Products	Brand Name	Capacity
1.	OPC, PPC, PSC and PCC	Dalmia Cement	3.42 MMTPA

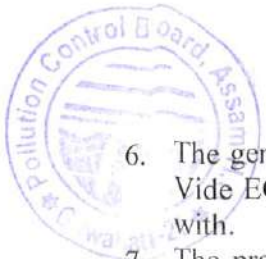
- ix) Details of D.G. Sets : 1x 125 KVA+1x380 KVA

TERMS AND CONDITIONS:

- The Consent to Operate (CTO) has been accorded based on the particulars furnished by the applicant vide Application ID: 1540997 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.
- The CTO is valid for a period up to 31.03.2025.
- This 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:-
 - Violation of any Terms and Conditions of this Consent to Operate.
 - Obtaining the Consent by misrepresentation or failure to disclose fully all relevant facts;
 - If any genuine complaint received;
- The unit shall obtain prior 'Consent to Establish' from the Board for any further expansion, alteration, modification, modernization of the project.
- Proper housekeeping shall be maintained. The unit shall not burn any waste inside the premises.

Contd...P/2

9



6. The general and Specific conditions of Environmental Clearance accorded by the MoEF & CC, GOI Vide EC No.- EC22B009AS121520 File No.- SEIAA.2046/2022 dtd.19.05.2022 shall be complied with.
7. The project Authority shall install a display Board as per the Board's Notification No. PCBA/AGI-95/20-21/Notification/01 dtd.11.11.2021. (Appendix-A).
8. The project proponent shall develop a greenbelt/plantation area with native trees covering at least 33% of the total plot area.
9. Domestic Wastewater generated from the factory and colony shall have to be treated in a Sewage Treatment Plant. This treated water shall be utilized in greenbelt development/spraying around the plant and colony.
10. Environmental Statement in prescribed Form-V should be submitted on or before the 30th September every year.
11. 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 time to enter the hospital 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 CTO.
12. The unit shall apply for renewal of CTO atleast ninety (90) days before expiry.

Specific Conditions:

A) Air Aspects:

1. Source of Air Pollution:

Sl No.	Unit	APC Device	Capacity	Stack Height
1	Cement Mill-1	Bag House	62000 Nm ³ /hr	H-50 m
2	Cement Mill-2	Bag House	62000 Nm ³ /hr	H-50 m
3	Roller Press with HAG	Bag House	490000 M ³ /hr	H-52.5 m

2. The unit shall comply with the standards and guidelines for control of noise pollution from stationary Diesel Generator (DG) set, notified by the MoEF& CC, Govt. of India vide, GSR 7, dated Dec.22, 1998 (Appendix-B)
3. Location of sampling port shall be provided as specified in CPCB guidelines for Emission Regulations (December 1985), Part-III (Appendix-C)
4. The unit shall comply with the specific emission standards, notified by the MoEF& CC, Govt. of India, vide GSR.612(E) dated 25th August, 2014, as applicable for all its chimney emission (Part-A of Appendix-D)
5. The unit shall comply with noise level standard, notified by the MoEF& CC, Govt. of India vide, GSR 7, dated Dec.22, 1998, as mentioned herein under-

Limit in dB (A) Leq	
Day Time (6:00am-9:00pm)	Night Time (9:00pm-6:00am)
75	70

6. The unit shall comply to the National Ambient Air Quality Standards, notified by the MoEF& CC, GOI, vide GSR 826(E) dtd.16.11.2009, especially with respect to SO₂, NO₂, PM_{2.5} and PM₁₀, as mentioned herein under-

Sl. No.	Pollutants	Time Weighted average	Concentration in Ambient Air (Industrial, Residential, Rural Areas) µg/m ³
1.	SO ₂ (µg/m ³)	Annual 24 hours	50 80
2.	NO ₂ (µg/m ³)	Annual 24 hours	40 80
3.	PM ₁₀ (µg/m ³)	Annual 24 hours	60 100
4.	PM 2.5 (µg/m ³)	Annual 24 hours	40 60

msd 42

7. On-line Continuous Emission Monitoring System (OCEMS) for Particulate Matter (PM), emission shall be properly maintained and OCMMS RT-DAS data should be regularly transmitted to Pollution Control Board, Assam and Central Pollution Control Board.
8. The unit shall install the following measures for control of source and fugitive emission.
 - a) Dust containment cum suppression system at Raw Material Feed Hoppers, all the material transfer & dropping points.
 - b) Construction of the metallic roads within the premises.
 - c) Regular cleaning and water sprinkling at the ground and in the haul roads.
9. Vehicle wheel washing system shall be installed at entry and exit gate of the factory.

B) Water Aspects:

1. Source of Water(Ground/Surface): Ground Water
2.
 - i) Water Consumption : 571 KL/day
 - ii) Effluent generation : 41 KLD (No effluent, only domestic Waste Water)
 - iii) Effluent recycled : 35 KLD(No effluent, only domestic Waste Water)
 - iv) Permission from CGWA: Obtained
 - v) Capacity of ETP/STP : 65 KLD
3. The treated water of the unit shall meet with specific standards, notified by the MoEF & CC, Govt. of India, vide GSR. 612(E) dated 25th August, 2014 (Part-B of Appendix-D)
4. The unit shall maintain 'Zero Liquid Discharge' condition.
5.
 - i) Storm water shall not be allowed to mix with effluent and/or floor washing.
 - ii) Storm water within the battery limits shall be channelized through separate drain/pipe passing through an Oil and Grease Trap cum Sedimentation tank
 - iii) Storm water discharge from the unit shall meet with general discharge standards, notified by the MoEF & CC, GOI, vide GSR.422 (E) dated.19.05.1993 (Appendix-E)
6. Rain water harvesting facility shall be maintained. A rain water harvesting pond shall be maintained within the premises. For water sprinkling of haul roads, water from the harvesting pond shall be used.
7. Adequate covered storage sheds for fly-ash shall have to be provided to prevent leachate and runoff from the storage yard.

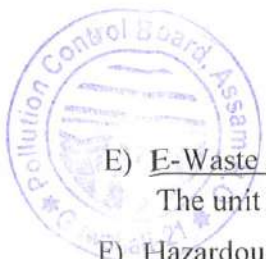
C) Solid Waste Aspects:

1. Adequate facility shall be created for collection, storage, transportation, treatment & disposal of non-hazardous industrial solid waste generated from the unit.
2. Adequate system shall be adopted on reduction of waste generation and enhancement of re-utilization & recycling of waste material.
3. Solid waste generated in the unit shall be disposed of as per the provisions of Solid Waste Management Rules 2016.

D) Plastic Waste Aspects:

1. The unit shall apply for 'Registration' through the online centralized portal developed by CPCB (<https://www.cpcbepwplastic.in>) immediately.
2. The Unit shall implement EPR (Extended Producers Responsibility) and fulfill the EPR target as per the guidelines.
3. Plastic Waste generated in the unit shall be quantified and disposed of in accordance of the provisions under the Plastic Waste Management Rules, 2016.
4. The unit shall submit the Annual return under the Plastic Waste Management Rules, 2016 within 30th June every year.

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E) E-Waste Aspects:

The unit shall comply with the provisions of E-Waste Management Rules, 2016.

F) Hazardous Waste Aspects:

1. The unit shall obtain Authorization from the Board under Hazardous & Other waste (Management & Trans-boundary Movement) Rules, 2016.
2. The project authority shall comply with the provisions of the said Rules.
3. Adequate facilities shall be provided for collection and storage of used oil, which shall be sent to registered recyclers for recycling.
4. The unit shall dispose of any other Hazardous Waste generated by the unit as per provisions of the Rules.
5. 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 Rules.
6. The unit shall submit the annual return in Form-IV on or before 30th June every year.

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

(Shantanu Kr. Dutta)
Member Secretary

Dated Guwahati, the 14th March, 2023

Memo No. WB/RONG/T-771/22-23/29-A / 3155

Copy to:

✓ M/s. Calcom Cement India Ltd., 2 No. Pipulpukhuri, Lanka, Hojai, Assam-782446- for information and compliance of conditions.

(Shantanu Kr. Dutta)
Member Secretary



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:

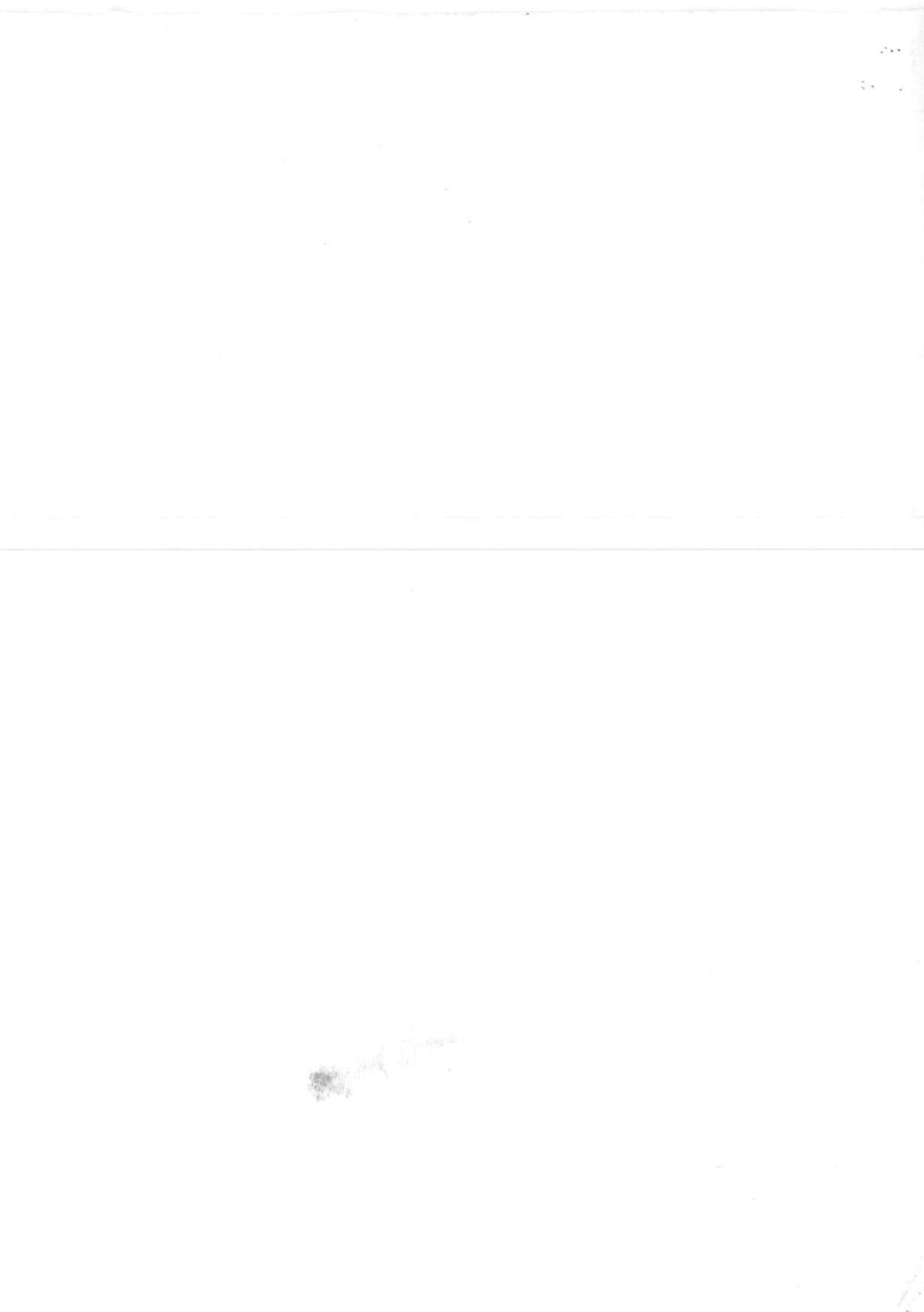
Member Secretary

Memo No. PCBA/LGL-95/2021/Notification/01-A
Copy to:

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 "Dainandini Barta" on 12.11.2021.
5. Notice Board, Head Office / Website (www.pcbassam.org), PCBA.

Member Secretary



1.6.6.0 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 less 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 and, 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, 1986
[GSR 7, dated Dec.22, 1998]



3.2.2.0 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: - $H = h + 0.2 \sqrt{\text{KVA}}$, 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.

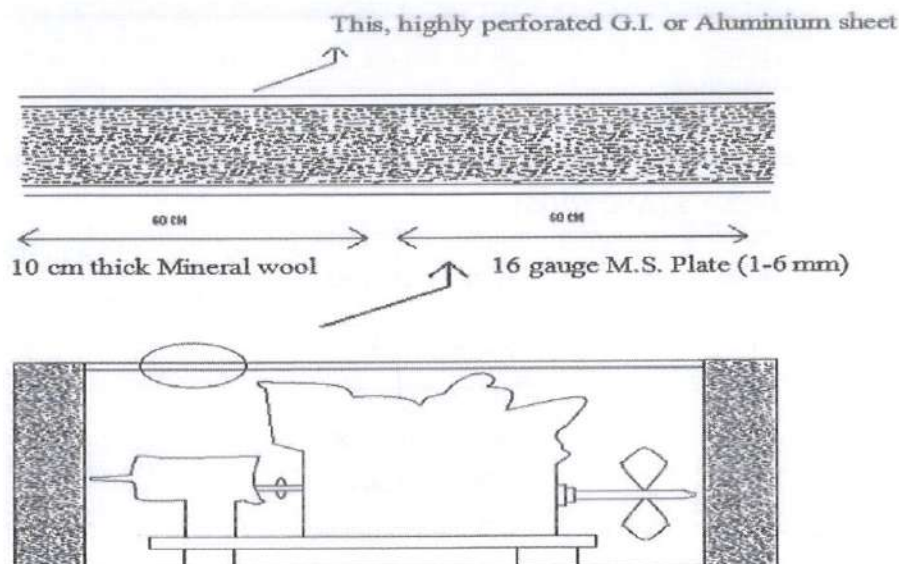


Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

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.

Shanu
(Shantanu Kr. Dutta)
Member Secretary
Pollution Control Board, Assam



Location of sampling port as per CPCB's emission regulation guideline part-III

-18-

2.5.0 Location of Sampling Port

To ensure laminar flow the sampling ports shall be located at atleast 8 times chimney diameter down stream and 2 times up stream from any flow disturbance. For a rectangular cross section the equivalent diameter (D_e) shall be calculated from the following equation to determine up stream, down stream distances.

$$D_e = \frac{2LW}{L+W}$$

Where L = Length in m, W = width in m.

Sometimes it may so happen for existing chimneys that sufficient physical chimney height is not available for desired sampling location in such cases additional traverse points shall be taken as given under 2.4.0.

The sampling port should be preferably provided on the delivery side of duct or chimney and not on the suction side.

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MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 25th August, 2014

G.S.R. 612(E).— In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely :—

1. (1) These rules may be called the Environment (Protection) (Fifth Amendment) Rules, 2014.
- (2) They shall come into force on the date of their publication in the Official Gazette.
2. In the Environment (Protection) Rules, 1986,—
- (a) in Schedule I, for serial number 10 and entries relating thereto, the following serial number and entries shall be substituted, namely :—

S. No.	Industry	Parameter	Standards		
(1)	(2)	(3)	(4)		
"10	Cement Plant (without coprocessing) , Standalone Clinker Grinding Plant or, Blending Plant	A .- Emission Standards			
		(i) Rotary Kiln - without coprocessing			
			Date of Commissioning	Location	Concentration not to exceed, in mg/ Nm ³
			(a)	(b)	(c)
		Particulate Matter	on or after the date of notification	anywhere in the country	30 (with effect from 01.01.2016)

[भाग II—खण्ड 3(i)]

भारत का राजपत्र : असाधारण

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			before the date of notification	critically polluted area or urban centres with population above 1.0 lakh or within its periphery of 5.0 kilometre radius	50 (with effect from 01.01.2015)
					30 (with effect from 01.06.2016)
				other than critically polluted area or urban centres	100 (with effect from 01.01.2015)
					30 (with effect from 01.06.2016)
		Sulphur Dioxide (SO ₂)	irrespective of date of commissioning	anywhere in the country	100
		Nitrogen Dioxide (NO ₂)	on or after the date of notification	anywhere in the country	600 (with effect from 01.06.2015)
			before the date of notification	anywhere in the country	800 (with effect from 01.01.2016)

(1)	(2)	(3)	(4)		
			(a)	(b)	(c)
		(ii) Vertical Shaft Kiln – (without coprocessing)			
		Particulate Matter (PM)	on or after the date of notification	anywhere in the country	50 (with effect from 01.06.2016)
			before the date of notification	critically polluted area or urban Centres with population above 1.0 lakh or within its periphery of 5 kilometre radius	100 (with effect from 01.06.2015)
				other than critically polluted area or urban centres	75 (with effect from 01.06.2016)
		Sulphur Dioxide (SO ₂)	-	-	150 (with effect from 01.01.2015)
		Nitrogen Dioxide (NO ₂)	-	-	200 (with effect from 01.01.2016)
					500 (with effect from 01.01.2016)

3351 4/14-2

Note :—

- The height of each stack including Clinker Grinding Plant, Coal Mill, Raw Mill, Grinding, Packaging Section, etc. shall be of a minimum of 30 metres or, as per the formula $H=14(Q)^{0.75}$, whichever is more, where "H" is the height of stack in metres and "Q" is the maximum quantity of SO_2 expected to be emitted in kg/hr through the stack at 100 per cent rated capacity of the plant and calculated as per the norms of gaseous emission.
- Above norms shall be applicable even if pet-coke is mixed with coal or, used alone for clinker making in kiln provided, pet-coke has been notified as 'approved fuel' by the concerned State Pollution Control Board/ Pollution Control Committee under the Air (Prevention and Control of Pollution) Act, 1981.
- All monitored values for SO_2 and NO_2 shall be corrected to 10% Oxygen, on dry basis. The norms for SO_2 and NO_2 shall be applicable to stacks attached to kiln.
- Scrubber meant for scrubbing emissions shall not be used as quencher. Plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be atleast equal to the main stack.

(1)	(2)	(3)	(4)
		B.- Service wastewater- (without coprocessing)	
		All efforts shall be made by the industry for 'zero discharge' of service wastewater. In case, the industry prefers to discharge service wastewater, the following norms shall be complied with:	
			Concentration not to exceed, milligramme per litre (except pH and temperature)
		pH	5.5 to 9.0
		Suspended Solids	100
		Oil and Grease	10
		Temperature	not more than 5°C higher than the intake water temperature
		C.- Stormwater	
		(I) Stormwater shall not be allowed to mix with effluent, treated sewage, scrubber water and/ or floor washings.	
		(II) Stormwater within battery limits of industry shall be channelized through separate drain(s) as per natural gradient passing through high density polyethylene lined pit(s) each having holding capacity of 10 minutes (hourly average) of rainfall for its catchment area."	

[भाग II—खण्ड 3(i)]

भारत का राजपत्र : असाधारण

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(b) in Schedule VI, under 'PART- D' relating to General Emission Standards, in item III relating to Load/Mass based standards, after serial number 9, and the entries relating thereto, the following serial number and entries shall be inserted, namely :—

(1)	(2)	(3)	(4)
"10"	Cement Plants (without coprocessing)	Rotary kiln based plants (Particulate Matter from raw mill, kiln and pre-calciner system put together).	0.125 Kg/ tonne of clinker (with effect from 01.01.2017)
		Vertical shaft kiln based plants (Particulate Matter from raw mill and kiln put together)	0.50 Kg/ tonne of clinker (with effect from 01.01.2017) . "

[F. No. Q-15017/30/2007-CPW]

DR. RASHID HASAN, Advisor

Note: —The principal rules were published in the Gazette of India vide number S.O. 844 (E), 19th November, 1986 and subsequently amended vide notifications numbers S.O. 433 (E), dated 18th April 1987; G.S.R. 97 (E), dated the 18th February, 2009; G.S.R. 149 (E), dated the 4th March, 2009; G.S.R. 739 (E), dated the 9th September, 2010; G.S.R. 809(E), dated, the 4th October, 2010, G.S.R. 215 (E), dated the 15th March, 2011; G.S.R. 221(E), dated the 18th March, 2011; G.S.R. 354 (E), dated the 2nd May, 2011; G.S.R. 424 (E), dated the 1st June, 2011; G.S.R. 446 (E), dated the 13th June, 2011; G.S.R. 152 (E), dated the 16th March, 2012; G.S.R. 266(E), dated the 30th March, 2012; and G.S.R. 277 (E), dated the 31st March, 2012; and G.S.R. 820(E), dated the 9th November, 2012; G.S.R. 176 (E), dated the 18th March, 2013; G.S.R. 535(E), dated the 7th August, 2013; G.S.R. 771(E), dated the 11th December, 2013; G.S.R. 2(E), dated the 2nd January, 2014; G.S.R. 229 (E), dated the 28th March, 2014; G.S.R. 232(E), dated the 31st March, 2014; and G.S.R. 325(E), dated the 7th May, 2014.

General Standards for discharge of environment Pollutants Part-A: Effluents

S. No.	Parameter	Standards			
		Inland surface water	public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	(c)	(d)
1	Color and Odor	5 to 25 Agreeable	-	5 to 25 Agreeable	5 to 25 Agreeable
2	Suspended Solids mg/l, Max.	100	600	200	(a) For process waste water-100 (b) For Cooling water effluent 10 percent above total suspended matter of influent
3	Particular size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatable solids, max. 3 mm (b) Settleable solids, max 850 microns
4*	---	-	-	---	-
5	pH value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above the receiving water temperature	-	-	Shall not exceed 5°C above the receiving water temperature
7	Oil and grease mg/L Max	10	20	10	20
8	Total residual chlorine mg/1, Max	1.0	-	-	1.0
9	Ammonical nitrogen (as N), mg/1 max.	50	50	-	50
10	Total Kjeldhal nitrogen (as NH ₃) mg/l, Max	100	-	-	100
11	Free Ammonia (as NH ₃) mg/1, Max	5.0	-	-	5.0
12	Biochemical oxygen demand (5 days at 20°C), mg/1 Max)	30	350	100	100
13	Chemical Oxygen demand, mg/1 Max	250	-	-	250
14	Arsenic (as As) mg/1 Max	0.2	0.2	0.2	0.2
15	Mercury (As Hg), mg/1 max)	0.01	0.01	-	0.01
16	Lead (as Pb) mg/L, Max	0.1	1.0	-	2.0
17	Cadmium (as Cd) mg/1, Max	2.0	1.0	-	2.0
18	Hexavalent chromium, (as Cr) mg/1, Max	0.1	2.0	-	1.0
19	Total chromium (as Cr) mg/l, Max	2.0	2.0	-	2.0

Contd...p/2



			-2-		
20	Copper (as Cu) g/l, Max	3.0	3.0	-	3.0
21	Zinc (as Zn) mg/l, Max	5.0	15	-	15
22	Selenium (as Se) mg/l, Max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, Max	3.0	3.0	-	5.0
24*	-	-	-	-	-
25*	-	-	-	-	-
26	-	-	-	-	-
27	Cyanide (as CN), mg/l Max	0.2	2.0	0.2	0.2
28*	-	-	-	-	-
29	Fluoride (as F) mg/l Max	2.0	15	-	15
30	Dissolved Phosphates (as p), mg/l Max	5.0	-	-	-
31*	-	-	-	-	-
32	Sulphide (as S) mg/l Max	2.0	-	-	5.0
33	Phenolic Compounds (as C ₆ H ₅ OH) mg/l Max	1.0	5.0	-	5.0
34	Radioactive materials:				
	(a) Alpha emitter micro curie/ml	10 ⁻⁷	10 ⁻⁷	10 ⁻⁸	10 ⁻⁷
	(b) Beta emitter micro curie/ml	10 ⁻⁶	10 ⁻⁶	10 ⁻⁷	10 ⁻⁶
35	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l		3 mg/l
38	Vanadium (asV)	0.2 mg/l	0.2 mg/l		0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	-	-	-	-	-

* Omitted by Rule 2 (d) (i) of the Environment (Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R 801 (E) dated 31.12.1993

mr 3 43

Report No.: ENV/CCIL/NGN/22-23/N-12/01

Date : 06/01/2023

Order No.: 4557000844/311

Date : 30/12/2022

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

(Unit of Dalmia Cement (Bharat) Ltd.)

Pipalpukehuri, Dist.- Nagaon, Assam- 782446

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	25 m Slab Mill-1 Separator Bottom	22.12.2022	70.3	75	66.9	70
2	25 m Slab Mill-2 Separator Bottom	22.12.2022	72.6	75	67.6	70
3	12 m Slab Mill-1 Bag Filter Bottom	22.12.2022	72.1	75	68.1	70
4	12 m Slab Mill-2 Bag Filter Bottom	22.12.2022	72.4	75	67.8	70
5	Mill-1 Bottom	22.12.2022	74.3	75	68.1	70
6	Mill-2 Bottom	22.12.2022	74.4	75	68.6	70
7	Hopper 1st Floor	22.12.2022	74.2	75	67.2	70
8	Hopper Bottom	22.12.2022	72.5	75	67.9	70
9	QC Physical Lab	22.12.2022	60.3	75	56.2	70
10	CCR	22.12.2022	52.8	75	44.9	70
11	PLC Room	22.12.2022	55.3	75	47.3	70
12	Load Centre-II Panel Room	22.12.2022	52.8	75	47.1	70
13	Chemical Lab	22.12.2022	46.7	75	35.1	70
14	DG 385 KVA (at 1m distance)	22.12.2022	74.1	75	73.4	75
15	DG 125 KVA (at 1m distance)	22.12.2022	73.8	75	72.6	75
16	CSP	22.12.2022	57.2	75	48.9	70
17	Packing Plant Compressor Room	22.12.2022	74.2	75	67.3	70
18	Truck Loader Rest Area	23.12.2022	61.8	75	57.2	70
19	Packing Plant Office	23.12.2022	57.6	75	54.6	70
20	Packer M/C Area	23.12.2022	74.2	75	67.9	70
21	Truck Tippler Area	23.12.2022	74.2	75	66.3	70
	--Continued--					



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/NGN/22-23/N-12/01

Date : 06/01/2023

Order No.: 4557000844/311

Date : 30/12/2022

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

(Unit of Dalmia Cement (Bharat) Ltd.)

Pipalpukhuri, Dist.- Nagaon, Assam- 782446

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
22	General Store	23.12.2022	56.3	75	44.6	70
23	Mechanical Workshop	23.12.2022	67.2	75	57.2	70
24	OHC	23.12.2022	42.5	75	32.1	70
25	Near Weigh Bridge	23.12.2022	68.7	75	65.9	70
26	Diesel Pump Area	23.12.2022	50.2	75	39.2	70
27	Near Main Gate	23.12.2022	67.2	75	62.1	70
28	Main Gate Reception	23.12.2022	46.9	75	42.5	70
29	Fly Ash Shed	23.12.2022	49.8	75	43.6	70
30	Gypsum Shed	23.12.2022	64.3	75	57.9	70
	--End of Report--					



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.

Report No.: ENV/CCIL/NGN/22-23/N-03/01

Date : 27/03/2023

Order No.: 4557000844/311

Date : 30/12/2022

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

(Unit of Dalmia Cement (Bharat) Ltd.)

Pipalukhuri, Dist.- Nagaon, Assam- 782446

AMBIENT NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day Time	Night Time
			Leq (dB-A)	Leq (dB-A)
1	In front of CCR	15.03.2023	72.4	64.3
2	Near Cement Mill- 1	15.03.2023	74.2	68.9
3	Near Cement Mill- 2	15.03.2023	74.5	69.3
4	Near Silo	15.03.2023	73.1	67.5
5	Near Packing Plant	15.03.2023	65.2	58.4
6	Central Store	15.03.2023	55.8	42.6
7	Dispensary	15.03.2023	50.2	41.6
8	Main Security Gate No. 1	15.03.2023	56.9	51.3
9	Workshop	15.03.2023	62.8	55.9
10	Near Hopper	15.03.2023	69.8	51.8
11	Fly ash Storage Area	15.03.2023	52.4	43.1
12	Near DSP Silo	15.03.2023	72.9	60.8
13	Compressor Area	15.03.2023	73.2	64.8
14	CSP Area	15.03.2023	57.1	47.9
15	Near Trippler	15.03.2023	72.5	66.8
16	CCR Lab	15.03.2023	55.2	41.7
17	Panel Room	15.03.2023	57.6	43.5
18	Chemical Laboratory	23.12.2022	54.2	45.1
19	DCS Room	23.12.2022	56.7	44.8

Limit: - Day Time- 75 dB-A, Night Time- 70 dB-A, as per G. S. R. 1063 (E), Dated- 26.12.1989.



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:

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Report No.: ENV/CCIL/NGN/22-23/N-03/01

Date : 27/03/2023

Order No.: 4557000844/311

Date : 30/12/2022

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

(Unit of Dalmia Cement (Bharat) Ltd.)

Pipalpukhuri, Dist.- Nagaon, Assam- 782446

D. G. SET NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Result (dB-A)
1	DG Set 125 KVA/100 KW Make: Jakson Ltd., Sl. No.: 09040083	15.03.2023	73.8
2	DG Set 380 KVA/304 KW Make: Jakson Ltd., Sl. No.: CJX-SDG-07080197	15.03.2023	74.1

Limit: - 75 dB-A (at 1 meter distance), as per G. S. R. 371 (E), Dated- 17.05.2002.



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:

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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	: Mr.KISHOR KR. DAS	Collected	: 18/Mar/2023 03:14PM
Age/Gender	: 33 Y 0 M 0 D /M	Received	: 23/Mar/2023 03:45PM
UHID/MR No	: DGTI.0000080590	Reported	: 23/Mar/2023 03:57PM
Visit ID	: DGTIOPV85227	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP APOLLO HOSPITALS GUWAHATI
IP/OP NO	:	Patient location	: Nagaon,GUWAHATI

DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Unit	Bio. Ref. Range	Method
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GLUCOSE, FASTING , NAF PLASMA	167	mg/dL	70-100	GOD - POD
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Comment:

As per American Diabetes Guidelines

Fasting Glucose Values in mg/d L	Interpretation
<100 mg/dL	Normal
100-125 mg/dL	Prediabetes
≥126 mg/dL	Diabetes



Patient Name	: Mr.KISHOR KR. DAS	Collected	: 18/Mar/2023 04:41PM
Age/Gender	: 33 Y 0 M 0 D /M	Received	: 18/Mar/2023 06:26PM
UHID/MR No	: DGTI.0000080590	Reported	: 18/Mar/2023 08:45PM
Visit ID	: DGTIOPV85227	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP APOLLO HOSPITALS GUWAHATI
IP/OP NO	:	Patient location	: Nagaon,GUWAHATI

DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Unit	Bio. Ref. Range	Method
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GLUCOSE, POST PRANDIAL (PP), 2 HOURS , NAF PLASMA	234	mg/dL	70-140	GOD - POD
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Comment:

It is recommended that FBS and PPBS should be interpreted with respect to their Biological reference ranges and not with each other.

Conditions which may lead to lower postprandial glucose levels as compared to fasting glucose levels may be due to reactive hypoglycemia, dietary meal content, duration or timing of sampling after food digestion and absorption, medications such as insulin preparations, sulfonylureas, amylin analogues, or conditions such as overproduction of insulin.

Ref: Marks medical biochemistry and clinical approach



Patient Name	: Mr.KISHOR KR. DAS	Collected	: 18/Mar/2023 04:41PM
Age/Gender	: 33 Y 0 M 0 D /M	Received	: 20/Mar/2023 12:03PM
UHID/MR No	: DGTI.0000080590	Reported	: 21/Mar/2023 04:16PM
Visit ID	: DGTIOPV85227	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP APOLLO HOSPITALS GUWAHATI
IP/OP NO	:	Patient location	: Nagaon,GUWAHATI

DEPARTMENT OF MICROBIOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
SAMPLE TYPE , SPUTUM	SPUTUM			
ACID FAST BACILLI / AFB , SPUTUM	NEGATIVE		Negative	Microscopy

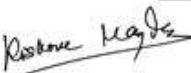
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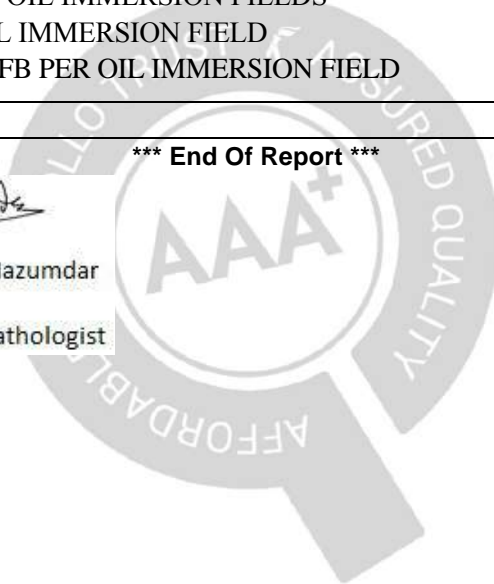
AFB STAIN INTERPRETATION

NEGATIVE : NO AFB IN 100 OIL IMMERSION FIELDS
 SCANTY : 1 – 9 AFB IN 100 OIL IMMERSION FIELDS
 POSITIVE + : 10 – 99 AFB IN 100 OIL IMMERSION FIELDS
 POSITIVE ++ : 1 – 10 AFB PER OIL IMMERSION FIELD
 POSITIVE +++ : MORE THAN 10 AFB PER OIL IMMERSION FIELD

*** End Of Report ***


 Dr. Anjan Sharma
 M.B.B.S,MD(Microbiology)
 Consultant Microbiologist.


 Dr. Kishore Mazumdar
 MBBS, DCP
 Consultant Pathologist



Patient Name	: Mr.NOREN SAIKIA	Collected	: 18/Mar/2023 02:57PM
Age/Gender	: 57 Y 0 M 0 D /M	Received	: 21/Mar/2023 05:52PM
UHID/MR No	: DGTI.0000080567	Reported	: 21/Mar/2023 06:44PM
Visit ID	: DGTIOPV85204	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP APOLLO HOSPITALS GUWAHATI
IP/OP NO	:	Patient location	: Nagaon,GUWAHATI

DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Unit	Bio. Ref. Range	Method
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GLUCOSE, FASTING , NAF PLASMA	113	mg/dL	70-100	GOD - POD
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Comment:

As per American Diabetes Guidelines

Fasting Glucose Values in mg/d L	Interpretation
<100 mg/dL	Normal
100-125 mg/dL	Prediabetes
≥126 mg/dL	Diabetes



Patient Name	: Mr.NOREN SAIKIA	Collected	: 18/Mar/2023 04:31PM
Age/Gender	: 57 Y 0 M 0 D /M	Received	: 18/Mar/2023 06:26PM
UHID/MR No	: DGTI.0000080567	Reported	: 18/Mar/2023 09:29PM
Visit ID	: DGTIOPV85204	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP APOLLO HOSPITALS GUWAHATI
IP/OP NO	:	Patient location	: Nagaon,GUWAHATI

DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Unit	Bio. Ref. Range	Method
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GLUCOSE, POST PRANDIAL (PP), 2 HOURS , NAF PLASMA	116	mg/dL	70-140	GOD - POD
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Comment:

It is recommended that FBS and PPBS should be interpreted with respect to their Biological reference ranges and not with each other.

Conditions which may lead to lower postprandial glucose levels as compared to fasting glucose levels may be due to reactive hypoglycemia, dietary meal content, duration or timing of sampling after food digestion and absorption, medications such as insulin preparations, sulfonylureas, amylin analogues, or conditions such as overproduction of insulin.

Ref: Marks medical biochemistry and clinical approach



Patient Name	: Mr.NOREN SAIKIA	Collected	: 18/Mar/2023 04:31PM
Age/Gender	: 57 Y 0 M 0 D /M	Received	: 20/Mar/2023 12:03PM
UHID/MR No	: DGTI.0000080567	Reported	: 21/Mar/2023 04:15PM
Visit ID	: DGTIOPV85204	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP APOLLO HOSPITALS GUWAHATI
IP/OP NO	:	Patient location	: Nagaon,GUWAHATI

DEPARTMENT OF MICROBIOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
SAMPLE TYPE , SPUTUM	SPUTUM			
ACID FAST BACILLI / AFB , SPUTUM	NEGATIVE		Negative	Microscopy

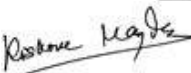
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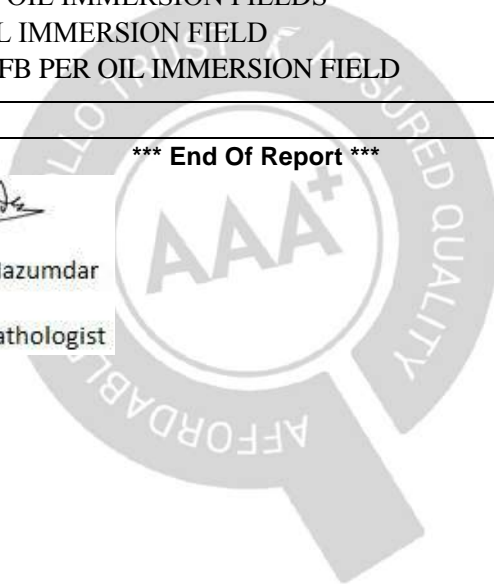
AFB STAIN INTERPRETATION

NEGATIVE : NO AFB IN 100 OIL IMMERSION FIELDS
 SCANTY : 1 – 9 AFB IN 100 OIL IMMERSION FIELDS
 POSITIVE + : 10 – 99 AFB IN 100 OIL IMMERSION FIELDS
 POSITIVE ++ : 1 – 10 AFB PER OIL IMMERSION FIELD
 POSITIVE +++ : MORE THAN 10 AFB PER OIL IMMERSION FIELD

*** End Of Report ***


 Dr. Anjan Sharma
 M.B.B.S,MD(Microbiology)
 Consultant Microbiologist.


 Dr. Kishore Mazumdar
 MBBS, DCP
 Consultant Pathologist



Patient Name	: Mr.CHIRANJIT DAS	Collected	: 18/Mar/2023 02:56PM
Age/Gender	: 26 Y 0 M 0 D /M	Received	: 23/Mar/2023 01:19PM
UHID/MR No	: DGTI.0000080564	Reported	: 23/Mar/2023 01:29PM
Visit ID	: DGTIOPV85201	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP APOLLO HOSPITALS GUWAHATI
IP/OP NO	:	Patient location	: Nagaon,GUWAHATI

DEPARTMENT OF BIOCHEMISTRY

Test Name	Result	Unit	Bio. Ref. Range	Method
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GLUCOSE, FASTING , NAF PLASMA	86	mg/dL	70-100	GOD - POD
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Comment:

As per American Diabetes Guidelines

Fasting Glucose Values in mg/d L	Interpretation
<100 mg/dL	Normal
100-125 mg/dL	Prediabetes
≥126 mg/dL	Diabetes



Patient Name	: Mr.CHIRANJIT DAS	Collected	: 18/Mar/2023 04:30PM
Age/Gender	: 26 Y 0 M 0 D /M	Received	: 20/Mar/2023 12:03PM
UHID/MR No	: DGTI.0000080564	Reported	: 21/Mar/2023 04:15PM
Visit ID	: DGTIOPV85201	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP APOLLO HOSPITALS GUWAHATI
IP/OP NO	:	Patient location	: Nagaon,GUWAHATI

DEPARTMENT OF MICROBIOLOGY

Test Name	Result	Unit	Bio. Ref. Range	Method
SAMPLE TYPE , SPUTUM	SPUTUM			
ACID FAST BACILLI / AFB , SPUTUM	NEGATIVE		Negative	Microscopy

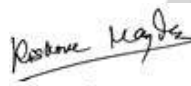
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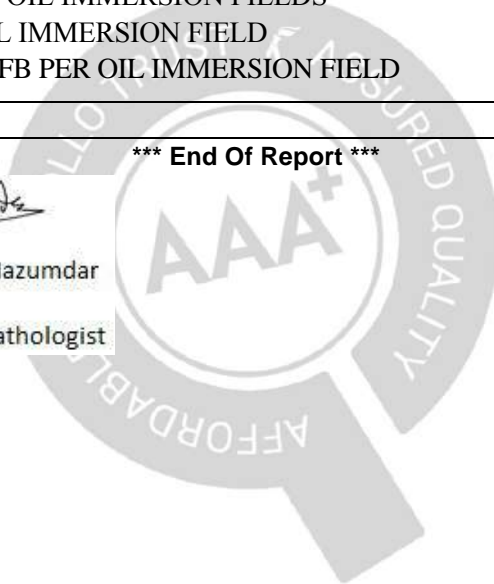
AFB STAIN INTERPRETATION

NEGATIVE : NO AFB IN 100 OIL IMMERSION FIELDS
 SCANTY : 1 – 9 AFB IN 100 OIL IMMERSION FIELDS
 POSITIVE + : 10 – 99 AFB IN 100 OIL IMMERSION FIELDS
 POSITIVE ++ : 1 – 10 AFB PER OIL IMMERSION FIELD
 POSITIVE +++ : MORE THAN 10 AFB PER OIL IMMERSION FIELD

*** End Of Report ***


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Calcom Cement India Limited
(Subsidiary of Dalmia Cement Bharat Limited)

2 No. Pipalpukhuri, Lanka, Dist- Nagaon, Assam- 782446

CSR expense report for Oct'22 to March'23

Sl. No.	Operational Area	Expenditure in Rs
1	Construction of Community Hall at Rehab Colony	879,099
2	Installation of Bio toilet at Lanka Market	51,571
	Total in Rs	930,670

Construction of Community Hall at Rehab Colony

A request to construct the community hall at Rehab Colony near Lanka Plant was received by the Lanka plant authorities from the community of Rehab colony, No 2 Pipal Pukhuri. As the old community hall was in very poor state, the community members felt the need for new construction of the community hall and requested Lanka Plant management to support them. A proposal with total costs estimation was done by the plant authorities and construction was started in December 2022 and completed in March 2023. The community members are very happy that a new construction has been carried out and this has also built the goodwill of the community towards the company. The total cost of the construction work amounted to Rs 8,79,098.79/-. The community hall is being used for various purposes like meetings, health camps etc.



Construction in Progress



Community Hall after commissioning

Installation of Bio toilet at Lanka Market

A common public toilet was a felt need for the shop keepers of the Lanka Market which is very near the Lanka Plant. The shopkeepers had no facility to attend to nature's call and thus the Lanka Market Committee members requested Plant Management for providing facility for a public toilet. The DBF team and the Lanka plant Management explored the best solution for providing a toilet facility to the shop keepers of the Lanka Market and Bio toilet was found as the best solution and easy to install and it was decided to provide a Bio toilet to the shop keepers of Lanka Market. The Bio toilet facility will support around 150 members of the Lanka Market committee. The Bio toilet was installed in the land of one of the members of the Market committee. The Market committee has decided to look after the management of the Bio toilet.



The Bio toilet was installed under the joint initiative of CCIL and DBF. The total cost of the bio toilet amounted to Rs 1,51,571/- out of which DBF share amounted to Rs 1,00,000/- and CCIL (Plant CSR) share of Rs 51,571/-.