

# Dalmia cement

**FUTURE TODAY**

*cement! sugar! refractories! power!*

DCBL//MoEF/EC-HYC/2022-23/202

Date: 27.05.2023

To,

The Regional Director  
Ministry of Environment, Forest & Climate Change  
Regional Office (South Zone),  
Kendriya Sadan, 4<sup>th</sup> Floor,  
E & F wing, 17<sup>th</sup> Main Road,  
II Block, Koramangala,  
Bengaluru – 560034.

**Sub:** Submission of DCBL Six Monthly Compliance Report of Cement Plant– Reg.

**Ref:** F.No.J-11011/119/2007 - IA II (I) Dated. 24<sup>th</sup> June 2008 and.11<sup>th</sup> August 2014.

Dear Sir,

With Reference to the subject cited, vide reference mentioned above, we herewith submitting Six Monthly Environment Clearance compliance reports of M/s. Dalmia Cement (Bharat) Limited (Cement Plant), Yadwad Village, Mudalagi Taluk, Belgaum District, Karnataka, for the period of Oct 2022 to Mar 2023.

Kindly request to acknowledge the same.

Yours faithfully

For M/s. Dalmia Cement (Bharat) Limited.



- Cc: 1. The Environmental Officer, Karnataka State Pollution Control Board, Plot No.3224/3, Hanuman Nivas, First Floor, B.K. Collage Road, Chikkodi-591201.  
2. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavana, 1<sup>st</sup> to 5<sup>th</sup> Floor, #49, Chruuch street, Bengaluru-560001.  
3. Regional Officer, Central Pollution Control Board, Nisarga Bhavan, Thimmaiah Road, 7th D Main Rd, Shivanagar, Bengaluru, Karnataka - 560079.

## **Dalmia Cement (Bharat) Limited**

RS No. 394, Yadwad (Village), Mudalagi (Taluk), Belagavi (District), Karnataka - 591136, India.

T 9606014495 / 96 / 97 / 98 W www.dalmiacement.com CIN : U65191TN1996PLC035963

Registered office : Dalimapuram, Dist. Tiruchirapalli - 621 651, Tamil Nadu, India.

A Dalmia Bharat Group company, www.dalmiabharat.com

# **Half Yearly Compliance Report**

On

**Environmental Clearance**

October, 2022 to March, 2023



**Dalmia Cement (Bharat) Limited**

**(An ISO 14001, 18001, 9001 and 50001 Certified Company)**

Yadwad village ,  
Gokak Taluk,  
Belagavi District ,  
Karnataka, - 591136

**Production Capacity:**

Cement : 4.0 MTPA,  
Clinker : 2.6 MTPA and  
Captive Power Plant : 40 MW

### PROJECT PROFILE

1	Project type	Industry (I) - Cement and Captive Power Plant
2	Name of the project	Cement Plant (4.0 MTPA), Clinker (2.60 MTPA), and Captive Power Plant (40MW) at Yadwad, Gokak, Belgaum, Karnataka by Dalmia Cement (Bharat) Ltd.
3	Clearance letter No.& date	MoEF&CC. EC: F. No. J-11011/119/2007-IA II(I), Dated: 24 <sup>th</sup> June 2008.
4	Location: District & State / UT	RS No. 394, Yadwad Village, Mudalagi Taluk, Belagavi District, KARNATAKA -591136
5	Address for correspondence:	M/s Dalmia Cement (Bharat) Limited, RS No. 394, Yadwad Village, Mudalagi Taluk, Belagavi District, KARNATAKA -591136 Phone: +918334 4292271 Fax No: +91 40 - 30006955 Web: www.dalmiacement.com
6	<b>Financial Details:</b>	
a	Project cost as originally planned and subsequent revised estimates and the years of price reference	1500.00 Crores
b	Allocations made for environmental management plans, with item breakup	<p><b>Approximate Cost (INR):</b></p> <ol style="list-style-type: none"> <li>1. Online Continuous Ambient Air Quality Monitoring Machine: 35,25,815</li> <li>2. Online Continuous Emission Monitoring System: 26,38,498</li> <li>3. Installation of Air pollution control equipment like Bag filters, Bag House and ESP: 3,24,62,546</li> <li>4. Installation of closed conveyor system: 5,18,51,062</li> <li>5. Construction of closed sheds for Raw material storage: 37,49,90,000</li> <li>6. Construction of Internal Roads: 7,00,00,000</li> <li>7. Green belt development: 1,20,00,000</li> <li>8. Environmental Monitoring: 44,00,000</li> <li>9. Construction of Rain Water Harvesting Lake: 65,40,000</li> <li>10. Construction of Rain Water Harvesting Pond: 26,32,000</li> </ol> <p>Total Cost: 561,039,921</p>

c	Total expenditure on the Project so far	1600.00 Crores
d	Planned and Actual expenditure incurred on the environmental management plans so far	❖ Planned expenditure on Environmental management system:31.05 Cr ❖ Actual expenditure on Environmental management system:56.10 Cr
7.	Status of construction:	Completed
a.	Date of commencement	1 <sup>st</sup> October 2012
b.	Date of completion (actual and/or planned)	25 <sup>th</sup> March 2015 – Cement Production
a.	Date of site visit of Director-MOEF&CC/CPCB Officials	CPCB official visit : 12 <sup>th</sup> and 13 <sup>th</sup> February 2019

S.No	Conditions	Compliance Status
<b>A.</b>	<b>Specific Conditions</b>	
i.	<p>Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided and limit of particulate matters shall be controlled within 50 mg/Nm<sup>3</sup> by installing adequate air pollution control system. Electrostatic precipitator (ESP) to clinker cooler and captive power plant, bag house to raw mill / kiln and cement mill shall be provided to control air emissions within 50 mg/Nm<sup>3</sup> and reports submitted to the Ministry's Regional Office at Bangalore, Central Pollution Control Board (CPCB) and Karnataka Pollution Control Board (KPCB).</p>	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>• Online Continuous Emission monitoring systems (OCEMS) for gaseous emissions from all the stacks at Cement plant &amp; CPP are provided and connected to CPCB server.</li> <li>• The Copy of CEMS report is attached as <b>Annexure 1</b></li> <li>• High Efficiency of Electrostatic Precipitators has been installed for clinker cooler and Captive Power Plant, Bag house has been provided in raw mill/ Kiln, coal mill and cement mill to maintain the emission well within stipulated limit.</li> <li>• Copy of statistical analysis of third party monitoring reports is attached as <b>Annexure 2</b>.</li> </ul>
ii.	<p>Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.</p> <p>Bag filters with ventilation system shall be provided to coal mill, all the raw material handling areas, clinker, cement &amp; fly ash silos, clinker hoppers etc. to control fugitive emissions from the material handling areas.</p> <p>Closed clinker stockpile system shall be adopted and bag filters shall be provided to clinker hoppers.</p> <p>Water sprinkling arrangements shall be made in the material stockyards and cement bags loading areas.</p> <p>To eliminate fugitive emissions, transportation of the ash to the cement plant shall be in closed containers and pneumatic transfer of the ash into ash silos in cement plant.</p>	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>• Bag filters had been installed in all emission sources.</li> <li>• Bag house for Coal Mill, Raw mill and ESP for clinker cooler is already installed.</li> <li>• Closed clinker stockpile system implemented with bag filter.</li> <li>• Water sprinkling arrangements made as per the conditions laid. Presently fugitive emissions controlled by dust suppression system through water tankers.</li> <li>• In addition to this, to eliminate fugitive emissions, transportation of the ash to the cement plant done in encapsulated fly ash Bulker only and the ash transfer to ash silos are being carried out pneumatically.</li> <li>• All conveyors are covered.</li> <li>• The fugitive emissions are within the CPCB standards.</li> <li>• Third party monitoring report of Fugitive emissions is enclosed as <b>Annexure 3</b></li> </ul>
iii.	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment</p>	<p>Being Complied.</p>

	<p>including agricultural land.</p> <p>Wagon and truck tippers for unloading and transportation shall be covered with tarpaulin. Internal roads shall be asphalted and sprinkled with water regularly.</p>	<p>Following efforts have been made to reduce the impact of transportation on surrounding environment including agricultural land:</p> <ul style="list-style-type: none"> <li>• The transportation of the raw materials and products are done through covered vehicles and overloading of materials are not allowed.</li> <li>• All the trucks are parked at concreted parking area.</li> <li>• Fully covered conveyor system implemented for transportation of crushed limestone, coal and gypsum within the cement plant.</li> <li>• Closed Raw material, Additive and coal storage yard provided to prevent airborne fugitive dust emission in the surrounding environment.</li> <li>• Covered tarpaulin system implemented at truck tippers for unloading.</li> <li>• Internal roads are made of RCC.</li> <li>• Water tankers are deployed for sprinkling of water at regular intervals on the internal roads, parking area and unloading areas.</li> <li>• Rod sweeping machines are deployed for regular sweeping of road, parking area and unloading area.</li> <li>• Thick plantation has been done along the road.</li> </ul>
<p>iv.</p>	<p>As proposed, total water requirement from Ghataprabha River shall not exceed 3,100 m<sup>3</sup>/day. No water shall be drawn from Dodahalla nallah. Captive Power Plant shall be provided with air-cooled condensers to reduce the water intake. The process effluent from captive power plant (CPP) shall be treated in effluent treatment plant (ETP) and treated waste water shall be recycled and reused in the cement manufacturing process and/or for dust suppression, green belt development and other plant related activities etc. No process waste water shall be discharged outside the factory premises and 'zero' discharge shall be adopted.</p>	<p>As mentioned in EC that total water requirement is 3100 m<sup>3</sup>/day.</p> <p>Due to design constraint of equipment and low production of plant, existing water usage is 1490 m<sup>3</sup>/day and remaining water requirement will be Considered in expansion of Plant.</p> <p>As Work of jack, well construction and pipeline implementation could not be completed.</p> <p>Meanwhile, to meet out plant's water requirement, DCBL developed 2 No.'s rainwater harvesting pits. Rain water was not sufficient to meet out the water demand, therefore to secure our demand of water, we also obtained permission from Karnataka Ground Water Authority for withdrawal of ground water vide</p>

		<p>letter no. DE0011198953705 dated 11.01.2022. DCBL informed MoEF&amp;CC regarding the same <b>vide letter dated 04.01.2013.</b></p> <ul style="list-style-type: none"> <li>• Captive Power Plant has been provided with air-cooled condensers to reduce the water consumption.</li> <li>• The process effluent from captive power plant (CPP) is being treated in ETP and treated wastewater is recycled back to the system.</li> <li>• No process waste water is discharged outside the factory premises and Zero discharge is adopted.</li> </ul>
v.	<p>'Permission' for the drawl of 3,100 m<sup>3</sup>/day from River Ghataprabha shall be obtained from concerned Department. Captive Power Plant shall be provided with air-cooled condensers to reduce the water intake.</p>	<p>DCBL Belagavi has obtained Permission for withdrawal of 3148 KLD water from Ghattprabha River (as mentioned in granted EC) from Water Resource Department, Government of Karnataka for existing plant. Work of jack well construction and pipeline implementation could not be completed. Meanwhile, to meet out plant's water requirement, DCBL developed 2 rain water harvesting pits. Rain water was not sufficient to meet out the water demand, therefore to secure our demand of water, we also obtained permission from Karnataka Ground Water Authority for withdrawal of ground water. DCBL informed MoEF&amp;CC regarding the same and requested to consider ground water as an additional source of water <b>vide letter dated 04.01.2013.</b></p> <p>But now company is proposing expansion in Existing Cement Plant for which additional water will be required. It is proposed to use water from Ghattprabha River in addition to ground water and rain water harvesting. Accordingly, renewal of permission for withdrawal of 3148 KLD water from Ghataprabha river has been obtained <b>vide order no. WRD/18/NIN/2022, Valid till 05.02.2024.</b></p> <p>Permission obtained from Karnataka Ground Water Authority for withdrawal of ground water vide letter no. DE0011198953705 dated 11.01.2022.</p> <p>The Captive power plant is provided with air-cooled condensers to minimize the water intake.</p>
vi	<p>All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently as amended in 2003.</p>	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>• All the Fly ash generated from our CPP has been utilized in cement manufacturing</li> </ul>

		process.
vii	Efforts shall be made to use fly ash generated from the power plant maximum in making Pozzolana Portland Cement (PPC). Bed ash shall be collected in ash cooler hoppers and then conveyed to a bed ash storage silo for further use as boiler bed material.	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>Fly ash from CPP is being utilized in the cement manufacturing process. Bed ash is being collected in ash cooler and then conveyed to bed ash storage silo for further use as boiler bed material.</li> </ul>
viii	All the dust collected from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Refractory bricks having high recycling values shall be sold to outside agencies or disposed off in environment-friendly manner. Domestic solid waste i.e. sludge shall be composted and used as organic manure for the green belt development within the plant and colony area. Used oil and scrapped auto mobile batteries shall be sold to authorized recyclers/ re-processors only.	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>All the Dust collected from pollution control equipment's are being reused in the process and for cement manufacturing.</li> <li>Refractory bricks shall be sold out to outside agencies and in the event of disposal all environment protection measures shall be taken to avoid any pollution.</li> <li>Domestic solid waste is used organic manure for green belt development.</li> <li>Used oil are being stored separately in covered leak proof containers on concrete floor and are being co-processed in kiln.</li> <li>Used batteries are being sold to authorized recyclers / re-processors or buyback through registered vendor only.</li> </ul>
ix	An effort shall be made to use of high calorific hazardous waste viz. municipal solid waste, solvents, spent oil, agro waste, sludge from DG sets and used tyres etc. in the cement kiln and necessary provision shall be made accordingly.	<ul style="list-style-type: none"> <li>The high calorific value hazardous wastes are being used in kiln as fuel based on availability and feasibility.</li> <li>We have authorization from KSPCB for co-processing of hazardous and other waste.</li> <li>Efforts are being made to explore the possibility of increasing the usage of Hazardous Waste.</li> </ul>
x.	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>Fly ash is being used in the manufacturing process of cement. Efforts are being made as a continuous process to utilize low grade limestone to the optimum level.</li> </ul>
xi.	As proposed in EIA/EMP, out of total 120 ha., green belt shall be developed in 40 ha (33 %) in and around the plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>Since commencement of project work, massive plantation program is undertaken.</li> <li>Nurturing and watering of the plantation made is being carried out on continuous basis to sustain the survival rate of the green belt. Photographs are attached as <b>Annexure-4</b></li> </ul>

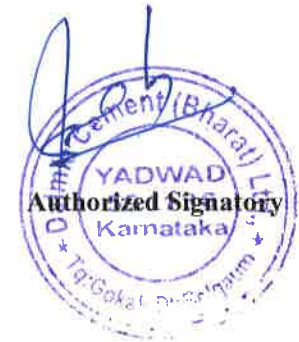


xii.	Prior environmental clearance from the Ministry of Environment & Forests for the Captive (Yadwad) limestone mine shall be obtained.	Being Complied. <ul style="list-style-type: none"> <li>Obtained EC from Ministry of Environment &amp; Forest F.No.J-11015/36/2009- IA.II (M), Dated 13 march 2015.</li> </ul>
xii.	All recommendations made in the Corporate Responsibility for Environment Protection (CREP) for cement plants shall be implemented.	Being Complied. <ul style="list-style-type: none"> <li>All recommendations made by CREP for Cement Plants are implemented.</li> </ul>
<b>B</b>	<b>GENERAL CONDITIONS</b>	
i.	The project authority shall adhere to the stipulations made by Karnataka Pollution Control Board (KPCB) and State Government.	Being Complied. <ul style="list-style-type: none"> <li>All the conditions made or laid down by KSPCB in CFO and subsequent directions as well as conditions laid by State Government shall be adhered.</li> </ul>
ii.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry	Being Complied. <ul style="list-style-type: none"> <li>No modification carried out since commissioning. Any modification or expansion shall be carried out with prior approval from the Ministry.</li> </ul>
iii.	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the Karnataka Pollution Control Board. At no time, the particulate emissions from the cement plant shall exceed KPCB limit. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically	Being Complied. <ul style="list-style-type: none"> <li>Interlocking facility had been provided to pollution Control Equipment's. So that in the event of the pollution control equipment not working properly the respective unit(s) will shut down automatically.</li> <li>Report on stack emissions confirming to KSPCB standards is attached as <b>Annexure 1 &amp; 2</b></li> </ul>
iv.	One ambient air quality monitoring station shall be installed in downwind direction. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with KSPCB and report submitted to the KPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly	Being Complied. <ul style="list-style-type: none"> <li>One online Ambient Air Quality monitoring station installed in the downwind direction. Copy of Online AAQM data (day Average) is attached as <b>Annexure 5</b></li> <li>Online Continuous Stack Emission Monitoring System (OCEMS) is also installed in all the stacks including CPP stack. The data has been uploaded in CPCB server continuously.</li> </ul>

		<ul style="list-style-type: none"> <li>All the Emission levels were maintained within standards stipulated by the board.</li> <li>A Third party agency approved by MoEF &amp;CC, M/s Cosmo Conscious Research Laboratory is also engaged for manual monitoring of Air, Water, soil and Noise and monitoring is being carried out continuously.</li> <li>Copy of statistical analysis of third party monitoring report on Ambient Air Quality, Stack emissions and Online Ambient Air Quality data is enclosed as <b>Annexure 6</b></li> <li>Half yearly report are being submitted to Ministry's Regional Office at Bangalore .</li> </ul>
v.	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Asphaltting/concreting of roads and water spray all around the stockyard and loading / unloading areas shall be carried out to control fugitive emissions. Covered sheds for storage of raw materials and fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>Adequate dust collection and extraction systems implemented at various transfer points, raw mill handling (unloading, conveying, transporting, stacking) etc.</li> <li>Bag filters had been installed at all emission sources.</li> <li>Above 9 km Internal RCC roads developed to control fugitive emissions.</li> <li>covered sheds for storage of raw materials and coal.</li> <li>Fully covered conveyor system implemented for transportation of crushed limestone, coal and gypsum within the cement plant.</li> <li>RCC Silos for clinker storage Cement and fly ash.</li> </ul>
vi	The company shall harvest the rainwater from the rooftops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>Nearly 1, 89,000 KL capacity rain water harvesting pond developed with catch drains to collect all the surface runoff during monsoon is developed to conserve water.</li> <li>The location map of Rain Water Harvesting pond is enclosed as <b>Annexure 7</b></li> </ul>
vii	The company shall undertake Eco-development measures including community welfare measures in the project area	<p>Being Complied .</p> <ul style="list-style-type: none"> <li>Maximum efforts are being undertaken Eco development measures.</li> <li>Some of the following measures are being implemented as a continuous development at surrounding villages <ul style="list-style-type: none"> <li>○ Livelihood and Skill building Programs</li> <li>○ Health care camps</li> <li>○ Water Infrastructure facilities</li> <li>○ Education</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>○ ODF village</li> <li>○ Community hall development etc.</li> <li>● Report on Eco development and community development measures is attached as <b>Annexure 8</b></li> </ul>
viii	The overall noise levels in and around the plant area shall be kept well within the standards (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 (day time) and 70 dBA (night time)	<ul style="list-style-type: none"> <li>● Overall noise levels in and around the plant area are being maintained within the standards prescribed by Board.</li> <li>● Noise monitoring is being carried out by Third party agency on regular basis and the reports confirming to the standards.</li> <li>● The report on Noise monitoring is attached as <b>Annexure 9</b></li> </ul>
ix.	Proper housekeeping and adequate occupational health programmes shall be taken up.	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>● Continuous Sweeping Machine has been deployed to maintain proper housekeeping with in plant premises.</li> <li>● Pre-employment medical check-up has been undertaken for all employees. First aid facility is provided at OHC centre inside the factory premises with 24 hrs ambulance availability.</li> <li>● Health awareness programme and special first aid training are being provided on continuous basis. Enclosed as <b>Annexure 10</b></li> </ul>
x.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>● A dedicated Environment Management Cell institutionalized with Environment officer under the control of Senior Executive to carry out various management and monitoring functions.</li> </ul>
xi.	As proposed in EIA/EMP, Rs. 31.05 Corers and Rs. 4.28 Corers earmarked towards capital cost and recurring cost/annum respectively for the environmental pollution control measures shall be suitable used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	<ul style="list-style-type: none"> <li>● The funds so provided are exclusively for the implementation of the Environment Management Plan.</li> <li>● Recurring cost incurred to control the pollution control equipment for the FY 2022-23 is 4.59 crores Enclosed as <b>Annexure-11</b></li> <li>● we have incurred an expenditure of about 56.10 Cr. for Bag house in cement mill, Raw Mill, Coal Mill and ESP of clinker cooler and implementation of EMP as well as for green belt development.</li> </ul>

xii	The Regional Office of this Ministry at Bangalore / CPCB / KPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly	Being Complied. <ul style="list-style-type: none"> <li>The monitoring activities are being carried out regularly. Six months compliance report and the monitored data along with statistical interpretation submitted to RO Bangalore, CPCB/KPCB regularly.</li> </ul>
xiii	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Being Complied. <ul style="list-style-type: none"> <li>Date of Financial Closure: 31<sup>st</sup> March 2016.</li> <li>Date of commencement of land development work: 1<sup>st</sup> October 2012.</li> </ul>
xiv	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Karnataka Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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 the Regional office at Bangalore.	Being Complied. <ul style="list-style-type: none"> <li>It was advertised in Deccan Herald in English and Prajavani in Kannada and copies of same sent with previous compliance Report. A copy of the same forwarded to the Ministry's Regional Office at Bangalore.</li> </ul>



# Online Pollution Monitoring Portal

Site Name: M/s.DALMIA CEMENT (BHARAT) LTD.,

From Date: 2022/10/01 To Date: 2023/03/31

Report Name: Custom Report

Report Created by DCBPL on 2023-05-28 11:12:23

Sl No.	Time	Stack7_CoalMill-PM - (mg/Nm3) Raw	Stack20_Cooler-PM - (mg/Nm3) Raw	Stack11_CementMill-PM - (mg/Nm3) Raw	Stack24_KILN-PM - (mg/Nm3) Raw	Stack24_KILN-NOx - (mg/Nm3) Raw	Stack24_KILN-SO2 - (mg/Nm3) Raw	Stack_CPP_12 5TPH_Boiler-PM - (mg/Nm3) Raw	Stack_CPP_12 5TPH_Boiler-SO2 - (mg/Nm3) Raw	Stack_CPP_12 5TPH_Boiler-NOx - (mg/Nm3) Raw
1	2022-10-01	3.55	5.85	2.4	8.65	135.16	10.28	NA	NA	NA
2	2022-10-02	4.84	9.85	0.82	9.38	139.05	14.91	NA	NA	NA
3	2022-10-03	4.32	11.67	2.06	10.09	137.8	11.15	NA	NA	NA
4	2022-10-04	4.13	13.88	1	10.93	133.28	13.6	NA	NA	NA
5	2022-10-05	6.14	9.05	1.37	10.92	123.44	16.34	NA	NA	NA
6	2022-10-06	2.11	2.03	0.6	4.08	136.51	4.49	NA	NA	NA
7	2022-10-07	4.03	7.99	1.02	7.35	179.98	2.11	0	0	0
8	2022-10-08	6.62	8.74	0.48	11.74	102.33	8.44	0	0	0
9	2022-10-09	5.94	12.51	0.13	10.86	121.41	16.25	0	0	0
10	2022-10-10	4.47	13.35	0.97	10.2	105.69	20.17	0	0	0
11	2022-10-11	5.92	12.94	1.14	11.1	153.94	22	0	0	0
12	2022-10-12	5.24	13.75	1.09	11.21	142.48	16.62	NA	NA	NA
13	2022-10-13	5.35	13.56	0.37	11.84	143.11	35.24	NA	NA	NA
14	2022-10-14	4.18	10.7	0.29	12.63	141.73	31.64	NA	NA	NA
15	2022-10-15	5.9	8.09	0.72	12.35	161.69	34.84	NA	NA	NA
16	2022-10-16	3.76	10.48	1.01	11.05	161.43	36.75	NA	NA	NA
17	2022-10-17	4.79	20.54	1.02	13.24	142.31	35.91	NA	NA	NA
18	2022-10-18	3.96	7.42	1.56	13.73	139.1	32.22	NA	NA	NA
19	2022-10-19	3.88	5.39	1.27	14.39	133.71	31.78	NA	NA	NA
20	2022-10-20	4.03	14.35	1.25	16.21	136.24	24.4	NA	NA	NA
21	2022-10-21	3.74	8.99	1.74	17.04	132.97	27.94	NA	NA	NA



## Annexure-1

22	2022-10-22	4.97	17.68	1.62	16.67	126.98	22.79	NA	NA	NA
23	2022-10-23	3.68	24.15	1.16	15.91	118.66	16.45	NA	NA	NA
24	2022-10-24	4.43	23.41	1.19	15.08	112.1	10.17	NA	NA	NA
25	2022-10-25	4.16	23.35	0.75	15.83	96.76	9	NA	NA	NA
26	2022-10-26	3.53	15.49	0.91	13.37	74.01	3.92	NA	NA	NA
27	2022-10-27	3.44	21.5	2.25	18.23	147.19	19.01	NA	NA	NA
28	2022-10-28	4.28	19.51	1.5	17.52	157.97	20.52	NA	NA	NA
29	2022-10-29	4.56	23.42	1.34	16.84	162.68	20.96	NA	NA	NA
30	2022-10-30	4.2	20.89	1.38	13.56	162.45	20.61	NA	NA	NA
31	2022-10-31	4.68	24.11	0.93	14.05	161.74	20.81	NA	NA	NA
32	2022-11-01	5.05	17.26	0.36	14.53	159.19	22.38	NA	NA	NA
33	2022-11-02	5.26	4.41	0.19	13.03	155.48	25.03	NA	NA	NA
34	2022-11-03	3.29	9.86	1.99	12.22	122.69	25.82	NA	NA	NA
35	2022-11-04	3.3	19.58	2.18	15.74	133.61	34.71	NA	NA	NA
36	2022-11-05	3.63	16.86	0.93	12.64	149.22	34.1	NA	NA	NA
37	2022-11-06	3.98	24.34	2.49	9.75	155.36	31.91	NA	NA	NA
38	2022-11-07	4.13	17.35	3.17	7.4	161.04	31.88	NA	NA	NA
39	2022-11-08	3.1	14.17	2.67	6.8	166.3	30.25	NA	NA	NA
40	2022-11-09	3.3	21.93	1.5	6.68	153.05	28.53	NA	NA	NA
41	2022-11-10	4.26	24.09	2.11	5.99	149.28	28.7	NA	NA	NA
42	2022-11-11	3.15	16.72	0.46	6.8	157.2	30.4	NA	NA	NA
43	2022-11-12	3.55	12.44	0.01	6.06	142.63	25.06	NA	NA	NA
44	2022-11-13	3.92	11.96	0.2	6.49	184.12	31.76	NA	NA	NA
45	2022-11-14	3.86	6.13	1.01	5.45	194.27	33.05	NA	NA	NA
46	2022-11-15	3.88	11.49	1.22	4.22	134.61	35.61	NA	NA	NA
47	2022-11-16	3.45	17.15	1.56	3.12	163.26	30.85	NA	NA	NA
48	2022-11-17	3.34	19.44	0.83	3.46	179.57	33.13	NA	NA	NA
49	2022-11-18	3.79	8.78	0.99	3.8	194.47	33.12	0	0	0
50	2022-11-19	3.76	18.59	0.77	4.28	203.94	31.68	0	0	0
51	2022-11-20	2.07	11.26	1.26	4.11	200.32	30.87	0	0	0
52	2022-11-21	4.32	10.14	1.45	4.03	196.02	30.09	NA	NA	NA



## Annexure-1

53	2022-11-22	3.97	13.19	1	4.06	191.79	32.12	NA	NA	NA
54	2022-11-23	2.97	16.74	0.41	4.37	186.34	31.05	NA	NA	NA
55	2022-11-24	3.45	14.66	1.22	5.1	148.95	34.18	NA	NA	NA
56	2022-11-25	3.77	10.81	1.27	4.76	98.68	37.31	NA	NA	NA
57	2022-11-26	3.03	10.96	1.39	4.96	157.92	33.62	NA	NA	NA
58	2022-11-27	3.85	10.71	0.39	4.95	159.65	37.56	NA	NA	NA
59	2022-11-28	2.8	7.68	1.44	5.12	141.18	45.51	NA	NA	NA
60	2022-11-29	3.65	6.92	0.1	4.82	123.93	38.86	NA	NA	NA
61	2022-11-30	2.89	14.5	1.5	5.38	186.21	41.1	NA	NA	NA
62	2022-12-01	3.19	21.5	0.79	5.57	210.44	41.91	NA	NA	NA
63	2022-12-02	3.5	7.66	1.69	4.73	210.07	40.97	NA	NA	NA
64	2022-12-03	3.91	17.33	2.77	4.74	202.17	40.36	NA	NA	NA
65	2022-12-04	4.34	16.7	1.53	5.15	197.67	39.39	NA	NA	NA
66	2022-12-05	3.89	14.02	1.53	5.46	199.95	39.21	NA	NA	NA
67	2022-12-06	3.99	23.59	1.12	5.93	209.16	37.98	NA	NA	NA
68	2022-12-07	3.21	19.25	1.28	5.99	207.09	37.8	NA	NA	NA
69	2022-12-08	1.9	11.77	0.44	2.48	205.18	31.33	NA	NA	NA
70	2022-12-09	3.08	11.1	0.56	9.1	211.98	41.64	NA	NA	NA
71	2022-12-10	3.04	20.09	0.62	11.12	194.83	37.02	NA	NA	NA
72	2022-12-11	3.86	9.61	0.48	11.48	200.07	35.92	NA	NA	NA
73	2022-12-12	3.07	1.65	0.15	12.37	201.77	34.46	NA	NA	NA
74	2022-12-13	3.05	3.38	0.1	12.65	215.78	34.08	NA	NA	NA
75	2022-12-14	3.18	9.07	0.1	12.4	238.87	35.85	NA	NA	NA
76	2022-12-15	3.39	8.14	0.08	13.2	229.78	35.02	NA	NA	NA
77	2022-12-16	3.81	8.2	0.05	9.09	193.28	30.49	NA	NA	NA
78	2022-12-17	3.59	12.98	0.04	5.48	176.44	29.36	NA	NA	NA
79	2022-12-18	4.24	2.69	0.02	5.76	167.27	30.49	NA	NA	NA
80	2022-12-19	4.69	14.69	0	6.06	175.57	30.44	NA	NA	NA
81	2022-12-20	2.46	11.14	0.37	4.49	184.02	29.17	NA	NA	NA
82	2022-12-21	3.52	8.08	1.1	6.61	169.1	29.95	NA	NA	NA
83	2022-12-22	4.34	15.37	1.01	6.75	160.26	24.26	NA	NA	NA



## Annexure-1

84	2022-12-23	3.97	19.46	1.08	5.73	189.96	12.02	NA	NA	NA
85	2022-12-24	3.78	11.96	0.89	5.94	80.48	13.25	NA	NA	NA
86	2022-12-25	3.18	8.52	0.6	6.06	365.93	68.37	NA	NA	NA
87	2022-12-26	3.58	3.4	0.61	7.05	315.26	51.3	NA	NA	NA
88	2022-12-27	3.32	3.58	0.52	6.76	171.86	20.91	NA	NA	NA
89	2022-12-28	3.21	5.43	0.65	7.19	123.44	16.22	NA	NA	NA
90	2022-12-29	3.54	11.81	1.25	6.89	175.38	12.82	NA	NA	NA
91	2022-12-30	3.52	12.26	1.96	7.03	234.91	16.27	NA	NA	NA
92	2022-12-31	3.83	22.91	1.66	6.88	268.95	18.41	NA	NA	NA
93	2023-01-01	3.49	19.69	1.45	5.92	300.76	21.15	NA	NA	NA
94	2023-01-02	2.85	13.47	1.67	5.6	292.94	19.53	NA	NA	NA
95	2023-01-03	3.86	19.12	1.54	6.7	300.84	17.69	NA	NA	NA
96	2023-01-04	3.04	13.35	1.23	6.62	303.24	16.06	NA	NA	NA
97	2023-01-05	3.91	14.35	0.94	6.38	350.47	18.97	NA	NA	NA
98	2023-01-06	5.01	11.19	1.08	5.91	378.12	18.98	NA	NA	NA
99	2023-01-07	5	15.2	0.72	7.08	376.08	15.99	NA	NA	NA
100	2023-01-08	4.69	4.31	0.75	6.47	378.72	13.31	NA	NA	NA
101	2023-01-09	4.27	6.98	0.63	6.49	360.39	30.04	NA	NA	NA
102	2023-01-10	0.49	7.57	0.6	0.37	319.27	33.52	NA	NA	NA
103	2023-01-11	0.49	1.9	0.28	0.2	319.71	16.97	NA	NA	NA
104	2023-01-12	0.49	2.34	0.55	0.17	NA	NA	NA	NA	NA
105	2023-01-13	0.49	0.39	0.26	0.51	257.97	9.35	NA	NA	NA
106	2023-01-14	3.59	9.05	0.86	7.06	320.93	17.99	NA	NA	NA
107	2023-01-15	4.48	14.27	0.37	5.11	284.29	14.94	NA	NA	NA
108	2023-01-16	3.84	16.95	1.55	5.99	263.8	13.51	NA	NA	NA
109	2023-01-17	3.85	12.2	1.34	4.94	248.69	13.3	NA	NA	NA
110	2023-01-18	4.04	16.49	2.13	4.98	244.41	14.89	NA	NA	NA
111	2023-01-19	4	20.67	1.39	6.02	279.52	16.02	NA	NA	NA
112	2023-01-20	3.34	18.92	1.71	5.63	312.39	18.13	NA	NA	NA
113	2023-01-21	4.32	13.55	2.55	4.38	334.92	17.37	NA	NA	NA
114	2023-01-22	3.73	17.94	1.68	4.93	336.6	15.57	NA	NA	NA





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115	2023-01-23	5.41	12.51	1.63	4.23	331.75	13.73	NA	NA	NA
116	2023-01-24	3.86	14.81	1.1	4.95	316.95	12.79	NA	NA	NA
117	2023-01-25	5.37	8.53	1.1	4.26	303.75	12.96	NA	NA	NA
118	2023-01-26	4.31	4.22	1.56	5.42	291.71	9.19	NA	NA	NA
119	2023-01-27	5.12	12.8	1.59	5.03	302.67	10.08	NA	NA	NA
120	2023-01-28	4.98	14.18	1.17	4.71	318.03	10.78	NA	NA	NA
121	2023-01-29	4.45	20.17	0.71	4.64	318.74	9.79	NA	NA	NA
122	2023-01-30	5.24	23.16	0.91	4.93	301.71	9.25	NA	NA	NA
123	2023-01-31	5.27	19.62	1.09	9.01	268.5	6.23	NA	NA	NA
124	2023-02-01	3.67	17.33	0.67	8.04	265.41	6.65	NA	NA	NA
125	2023-02-02	5.27	17.35	0.51	8.27	275.71	7.72	NA	NA	NA
126	2023-02-03	4.67	13.99	0.65	9.16	275.45	8.15	NA	NA	NA
127	2023-02-04	5.08	7.03	0.78	9.56	240.91	8.93	NA	NA	NA
128	2023-02-05	5.44	7.66	0.57	8.84	173.6	4.31	NA	NA	NA
129	2023-02-06	5.34	3.29	0.98	9.86	122.61	3.49	NA	NA	NA
130	2023-02-07	5.83	0.72	0.91	6.2	168.79	12.36	NA	NA	NA
131	2023-02-08	4.36	0.25	0.64	5.01	183.21	12.12	NA	NA	NA
132	2023-02-09	3.85	0.05	0.28	3.12	151.06	13.5	NA	NA	NA
133	2023-02-10	3.54	0.11	0.18	3.73	102.37	10.06	NA	NA	NA
134	2023-02-11	3.61	15.85	0.46	4.46	57.96	7.43	NA	NA	NA
135	2023-02-12	4.63	25.21	0.39	4.45	169.31	23.76	NA	NA	NA
136	2023-02-13	3.97	15.92	0.57	4.24	227.32	27.52	NA	NA	NA
137	2023-02-14	0.49	1.56	0.74	1.36	252.16	31.97	NA	NA	NA
138	2023-02-15	0.49	3.19	0.62	0.31	181.98	31.11	NA	NA	NA
139	2023-02-16	0.49	1.07	0.42	0.53	29.64	5.28	NA	NA	NA
140	2023-02-17	0.49	0.36	0.31	0.89	24.93	2.94	NA	NA	NA
141	2023-02-18	0.49	0.3	0.33	0.54	0	0	NA	NA	NA
142	2023-02-19	0.49	0.32	0.47	0.71	0	0	NA	NA	NA
143	2023-02-20	0.49	0.31	0.3	0.55	0	0	NA	NA	NA
144	2023-02-21	0.49	0.32	0.27	0.5	0	0	NA	NA	NA
145	2023-02-22	0.49	0.36	0.18	0.48	0	0	NA	NA	NA



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146	2023-02-23	0.49	0.31	0.8	0.52	0	0	NA	NA	NA
147	2023-02-24	3.54	2.21	0.3	2.44	39.33	5.64	NA	NA	NA
148	2023-02-25	4.15	2.38	0.43	3.56	239.89	29.62	NA	NA	NA
149	2023-02-26	4.4	2.31	0.35	3.92	256.26	17.49	NA	NA	NA
150	2023-02-27	3.46	2.68	0.3	2.85	272.27	14.21	NA	NA	NA
151	2023-02-28	4.22	2.41	0.18	3.13	280.37	9.18	NA	NA	NA
152	2023-03-01	3.15	14.19	0.21	3.02	266.65	5.77	NA	NA	NA
153	2023-03-02	4.11	6.72	0.28	2.08	267.78	19.72	NA	NA	NA
154	2023-03-03	2.64	10.75	0.4	1.13	298.05	25.24	NA	NA	NA
155	2023-03-04	4.79	18.78	0.42	1.05	303.43	19.5	NA	NA	NA
156	2023-03-05	4.05	23.01	0.46	0.99	301.12	13.43	NA	NA	NA
157	2023-03-06	2.04	14.55	0.5	0.7	294.81	8.46	NA	NA	NA
158	2023-03-07	5.61	13.99	0.71	1.31	292.81	10.65	NA	NA	NA
159	2023-03-08	4.03	5.88	0.49	3.44	292.52	29.77	NA	NA	NA
160	2023-03-09	1.5	6.05	0.37	1.93	NA	NA	NA	NA	NA
161	2023-03-10	0.49	2.58	0.45	1.38	NA	NA	NA	NA	NA
162	2023-03-11	0.49	0.18	0.24	1.04	NA	NA	NA	NA	NA
163	2023-03-12	0.49	0.19	0.26	0.75	NA	NA	NA	NA	NA
164	2023-03-13	0.49	0.99	0.45	0.72	NA	NA	NA	NA	NA
165	2023-03-14	3.27	5.07	1.14	0.93	NA	NA	NA	NA	NA
166	2023-03-15	4.89	3.56	0.98	1.91	NA	NA	NA	NA	NA
167	2023-03-16	4.75	3.31	1.29	2.63	282.01	30.12	NA	NA	NA
168	2023-03-17	4.46	2.83	1.19	2.26	263.43	23.31	NA	NA	NA
169	2023-03-18	3.49	2.95	0.9	2.15	259.56	27.19	NA	NA	NA
170	2023-03-19	4.52	2.49	0.76	1.66	206.5	15.44	NA	NA	NA
171	2023-03-20	4.83	4.93	1.01	1.69	199.68	17.42	NA	NA	NA
172	2023-03-21	3.51	14.06	0.86	9.01	380.67	61.04	NA	NA	NA
173	2023-03-22	8.64	5.4	1.04	6.66	306.09	15.51	NA	NA	NA
174	2023-03-23	6.56	3.54	1.1	7.65	167.61	10.63	NA	NA	NA
175	2023-03-24	4.29	3.42	1.23	7.14	178.95	29.28	NA	NA	NA
176	2023-03-25	4.93	6.37	1.39	6.33	315.28	52.28	NA	NA	NA



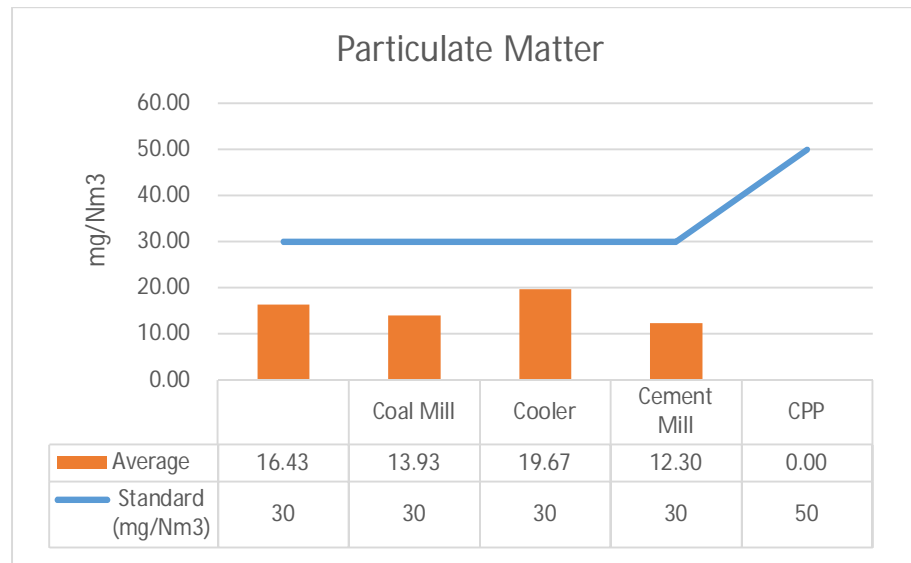
## Annexure-1

177	2023-03-26	4.98	9.79	0.59	6.25	409.3	61.29	NA	NA	NA
178	2023-03-27	2.42	5.53	0.5	4.76	420.93	55.26	NA	NA	NA
179	2023-03-28	5.1	5.28	0.6	6.77	423.31	46.42	NA	NA	NA
180	2023-03-29	5.36	3.44	0.61	7.13	423.42	42.58	NA	NA	NA
181	2023-03-30	3.76	2.64	0.82	6.68	424.37	39.78	NA	NA	NA
182	2023-03-31	5.53	6.29	0.69	6.85	429.96	32.85	NA	NA	NA
183	Prescribed Standards	0 - 30	0 - 30	0 - 30	0 - 30	0 - 600	0 - 100	0 - 50	0 -	0 -
184	Maximum Value	8.64	25.21	3.17	18.23	429.96	68.37	0	0	0
185	Maximum Value At Time	2023-03-22	2023-02-12	2022-11-07	2022-10-27	2023-03-31	2022-12-25	2022-10-07	2022-10-07	2022-10-07
186	Minimum Value	0.49	0.05	0	0.17	0	0	0	0	0
187	Minimum Value At Time	2023-01-10	2023-02-09	2022-12-19	2023-01-12	2023-02-18	2023-02-18	2022-10-07	2022-10-07	2022-10-07
188	Geometric Mean	3.72	10.86	0.92	6.55	207.34	23.18	0	0	0
189	Median	3.86	11.03	0.84	5.92	192.54	21.06	0	0	0
190	Standard Deviation	1.41	6.92	0.61	4.27	93.57	13.28	0	0	0
191	Valid Data Points	182	182	182	182	174	174	8	8	8
192	Total Data Points	182	182	182	182	182	182	182	182	182
193	Data Availability %	100	100	100	100	95.6	95.6	4.4	4.4	4.4

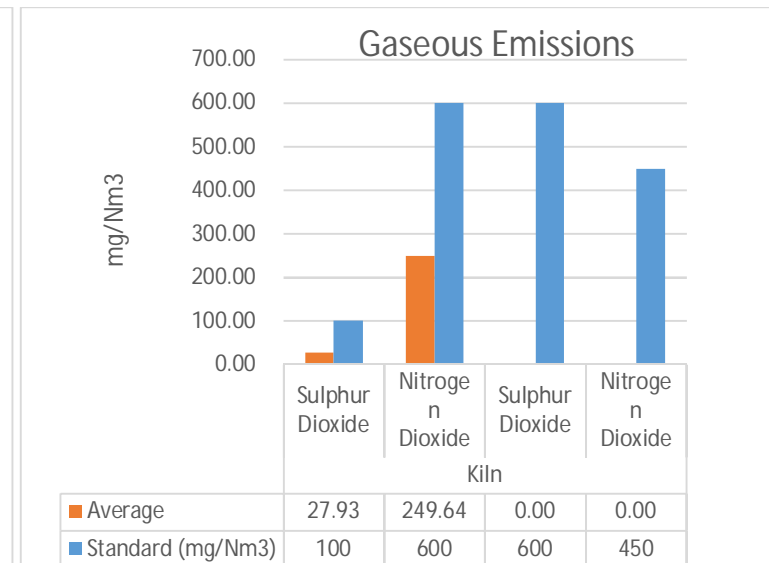
\*CPP is not working since May 2022



THIRD PARTY STACK EMISSION MONITORING Oct 22- Mar23									
Stack Details	Emission Parameter	Standard (mg/Nm <sup>3</sup> )	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Average
Kiln	Sulphur Dioxide	100	21.57	22.57	21.57	24.58	23.56	53.7	<b>27.93</b>
	Nitrogen Dioxide	600	215.87	232.56	212.57	209.87	206.45	420.5	<b>249.64</b>
	Particulate Matter	30	17.30	17.7	12.6	17.6	18.3	15.1	<b>16.43</b>
Coal Mill	Particulate Matter	30	10.60	14.5	13.4	17.2	15.6	12.3	<b>13.93</b>
Cooler	Particulate Matter	30	23.10	9.90	15.3	26.50	20.9	22.3	<b>19.67</b>
Cement Mill	Particulate Matter	30	13.30	13.20	10.6	13.6	12.6	10.5	<b>12.30</b>
CPP	Particulate Matter	50	shut down	shut down	shut down	shut down	shut down	shut down	-
	Sulphur Dioxide	600							-
	Nitrogen Dioxide	350							-
	Mercury	0.03							-



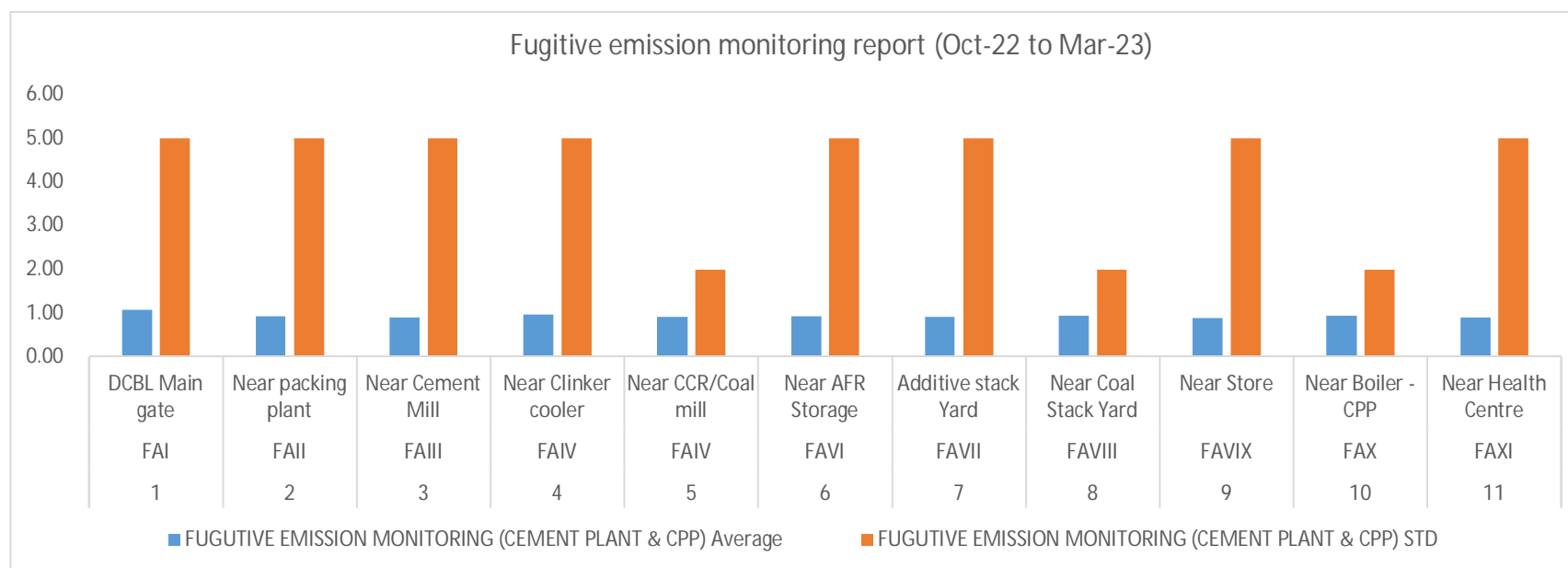
Particulate matter emission



Gaseous Emission



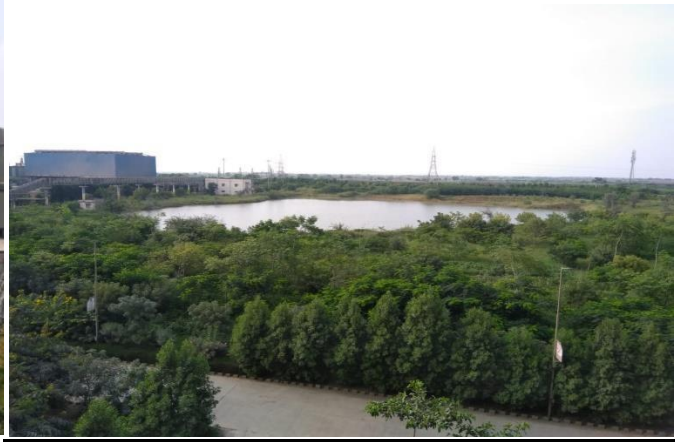
FUGITIVE EMISSION MONITORING (Oct 22 to Mar 23)										
SI No.	Station Code	Name of the Station	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Average	STD
1	FAI	DCBL Main gate	0.79	1.05	1.52	1.08	1.07	0.97	1.02	5.00
2	FAII	Near packing plant	0.90	0.98	0.96	0.94	0.94	0.86	1.03	5.00
3	FAIII	Near Cement Mill	0.60	1.02	0.98	0.86	1.11	0.88	0.97	5.00
4	FAIV	Near Clinker cooler	0.90	1.00	1.05	0.96	0.93	0.98	0.96	5.00
5	FAIV	Near CCR/Coal mill	0.94	0.88	0.93	0.76	1.05	0.96	0.99	2.00
6	FAVI	Near AFR Storage	0.77	0.83	1.01	0.87	1.01	1.06	0.94	5.00
7	FAVII	Additive stack Yard	0.73	0.91	1.04	0.82	0.84	1.17	0.87	5.00
8	FAVIII	Near Coal Stack Yard	1.06	1.01	0.85	0.83	0.78	1.11	0.94	2.00
9	FAVIX	Near Store	1.05	0.90	0.91	0.61	1.02	0.82	0.99	5.00
10	FAX	Near Boiler -CPP	0.88	1.00	0.73	0.97	1.07	1.01	0.96	2.00
11	FAXI	Near Health Center	0.89	0.85	0.87	0.98	0.78	1.03	0.95	5.00



<b>Dalmia Cement (Bharat) Limited, Yadwad, Belagavi District</b>												
<b>GREEN BELT DEVELOPMENT REPORT- 2013-2023</b>												
Sr. No	Unit	Year										Total Plantation
		2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	
<b>CEMENT PLANT</b>												
1	No. of Trees Planted	1802	11981	48835	16415	7437	44874	11717	1500	0	5000	149561
2	Area Covered (Ha)	0.7208	4.7924	19.534	6.566	2.9748	17.9496	4.6868	0.5	0	2.5	60.22
3	Survival Rate (%)	89	91	91	93	94	94	96	95	0	96	93.22
<b>MINES</b>												
1	No. of Trees Planted				230	4484	8066	1884	2500	2800	2900	22864
2	Area Covered (Ha)				0.85	16.04	22.07	0.75	2	2.5	2.5	46.71
3	Survival Rate (%)				91	93	93	95	95	95	81.28	91.89
<b>TOTAL PLANTATION</b>											<b>172425</b>	
<b>TOTAL AREA COVERED UNDER GREEN BELT(CEMENT PLANT +MINES) (Ha)</b>											<b>106.93</b>	
<b>33% AREA REQUIRED UNDER GREEN BELT (Ha) - CEMENT PLANT</b>											<b>39.6</b>	
<b>% AREA COVERED UNDER GREEN BELT (CEMENT PLANT)</b>											<b>50.18</b>	



**Photographs of Green Belt:**







## Online Pollution Monitoring Portal

Site Name: M/s.DALMIA CEMENT (BHARAT) LTD.,

From Date: 2022/10/01 To Date: 2023/03/31

Report Name: Custom Report

Report Created by DCBPL on 2023-05-27 14:58:00

Sl No.	Time	CAAQMS_1-PM10 - (ug/m3 ) Raw	CAAQMS_1-PM2.5 - (ug/m3) Raw	CAAQMS_1-SO2 - (ug/m3 ) Raw	CAAQMS_1-NOx - (ug/m3) Raw	CAAQMS_1-NO - (ug/m3) Raw	CAAQMS_1-NO2 - (ug/m3) Raw	CAAQMS_1-CO - (mg/m3) Raw	CAAQMS_1-Atmospheric Temperature - (Degree) Raw	CAAQMS_1-Rain - (mm) Raw	CAAQMS_1-Relative humidity - (%) Raw	CAAQMS_1-Wind Speed - (m/s) Raw	CAAQMS_1-Wind Direction - (Degree) Raw	CAAQMS_1-Atmospheric Pressure - (Bar) Raw	CAAQMS_1-Solar Radiation - (W/m2) Raw
1	2022-10-01	21.95	21.45	5.87	18.17	8.86	9.37	0.73	20.68	20.18	0.54	6.17	115.81	805.39	43.38
2	2022-10-02	18.36	17.2	5.41	18.31	8.86	9.46	0.58	21.22	0.72	0.54	6.11	138.4	805.38	43.04
3	2022-10-03	22.11	21.58	6.33	18.13	8.74	9.39	0.61	22.4	0	0.55	6.19	127.3	805.29	42.48
4	2022-10-04	35.74	25.88	5.93	18.3	8.84	9.46	0.61	22.85	0	0.55	6.1	160.14	805.51	44.08
5	2022-10-05	28.05	20.38	6.53	17.9	8.65	9.25	0.62	23.99	2.19	0.55	6.11	143.48	806.08	47.7
6	2022-10-06	11.79	18.92	5.49	18.58	9.05	9.54	0.66	21.07	12.55	0.55	5.97	125.25	803.3	28.42
7	2022-10-07	17.97	10.08	6.02	18.16	8.73	9.43	0.63	20.34	0	0.54	6.07	127.49	803.38	29.14
8	2022-10-08	17.24	13.68	6.35	18.53	9.13	9.4	0.61	23	0	0.55	6.14	173.13	806.06	47.61
9	2022-10-09	20.71	14.71	6.92	18.38	8.86	9.52	0.63	23.43	0.32	0.55	5.99	154.75	805.19	41.49
10	2022-10-10	9.99	4.63	6.54	18.2	8.77	9.43	0.66	22.79	12.92	0.55	5.86	168.97	803.83	31.96
11	2022-10-11	7.44	4.75	7.15	18.34	8.94	9.4	0.69	22.11	7.4	0.55	5.76	207.6	802.76	24.43
12	2022-10-12	9.15	5.89	6.46	18.14	8.69	9.46	0.64	21.13	14.71	0.55	5.72	199.77	803.04	26.07
13	2022-10-13	8.81	5.98	6.63	18.07	8.68	9.39	0.68	22.47	5.17	0.55	5.71	219.1	803.67	30.59
14	2022-10-14	15.18	13.01	9.65	30.88	24.97	9.14	0.69	22.11	0	0.58	5.83	186.52	804.15	33.97
15	2022-10-15	18.67	19.76	6.24	17.7	8.63	9.08	0.65	22.92	0	0.56	5.95	179.12	804.42	34.98
16	2022-10-16	9.6	9.59	5.38	17.96	8.61	9.35	0.64	22.49	7.25	0.57	6.01	186.64	803.06	26.8
17	2022-10-17	7.07	7.57	5.32	17.98	8.53	9.45	0.58	23.72	1.61	0.56	6.04	234.46	804.54	37.07
18	2022-10-18	27.98	25.1	5.54	18.01	8.54	9.47	0.61	23.89	0.04	0.56	6.03	239.59	804.08	33.74



## Annexure -5

19	2022-10-19	17.63	14.18	6.3	18.16	8.76	9.4	0.64	22.98	0.23	0.56	5.96	213.02	805.17	41.4
20	2022-10-20	10.5	11.69	5.96	18.13	8.67	9.47	0.65	22.98	0	0.56	5.9	197.27	804.19	34.22
21	2022-10-21	13.46	12.32	6.28	18.21	8.7	9.51	0.67	24.14	0	0.56	5.89	200.9	804.59	36.76
22	2022-10-22	22.49	28.14	6.45	18.34	8.81	9.53	0.66	23.42	0	0.56	5.89	164.31	804.39	34.89
23	2022-10-23	28.5	31.73	6.78	18.2	8.79	9.42	0.66	21.09	0	0.55	6.09	165.29	806.13	45.09
24	2022-10-24	30.65	35.41	8.04	18.27	8.95	9.33	0.67	19.51	0	0.55	5.97	198.47	806.13	43.89
25	2022-10-25	38.38	43.33	6.83	18.22	8.77	9.46	0.76	20.86	0	0.55	5.93	189.68	806.18	42.84
26	2022-10-26	23.47	31.31	7.6	18.24	8.82	9.44	0.74	19.98	0	0.55	5.96	200.07	806.13	42.43
27	2022-10-27	20.87	30.32	6.72	18.11	8.66	9.48	0.7	20.26	0	0.55	5.82	209.59	806.03	41.96
28	2022-10-28	20.07	27.34	6.72	18.24	8.87	9.37	0.66	20.61	0	0.55	5.94	214.27	805.05	37.22
29	2022-10-29	29.34	35.29	5.92	18.31	8.81	9.51	0.72	21.48	0	0.55	5.88	170.36	805.09	36.2
30	2022-10-30	24.05	32.3	7.11	18.01	8.56	9.46	0.7	21.02	0	0.55	5.9	170.67	805.55	41.14
31	2022-10-31	40.42	45.03	7.03	18.51	9.07	9.45	0.71	20	0	0.55	5.92	173.81	805.47	40.44
32	2022-11-01	38.11	48.12	6.26	18.24	8.89	9.38	0.73	20.13	0	0.55	6.02	188.92	805.06	38.11
33	2022-11-02	27.04	27.68	5.83	18.18	8.77	9.41	0.78	22.58	0	0.55	5.95	183	804.67	37.24
34	2022-11-03	36.75	47.83	6.46	18.28	8.82	9.47	0.82	22.49	0	0.55	6	174.25	804.55	36.4
35	2022-11-04	32.55	40.8	5.79	18.12	8.64	9.5	0.78	22.45	0	0.55	6.06	188.03	804.73	37.67
36	2022-11-05	24.88	27.54	4.26	18.03	8.6	9.45	0.71	23.1	0	0.56	6.12	206.27	804.39	35.42
37	2022-11-06	21.67	27.36	5.77	18.23	8.69	9.54	0.66	22.61	0	0.55	6.05	193.33	804.42	35.26
38	2022-11-07	23.94	32.19	7.17	18.19	8.67	9.53	0.67	21.12	0	0.55	6.08	199.22	804.86	38.01
39	2022-11-08	32.21	39.45	8.02	17.98	8.46	9.52	0.74	21.46	0	0.55	6.13	204.53	804.63	36.98
40	2022-11-09	40.77	40.65	8.24	18.04	8.53	9.51	0.83	20.68	0	0.55	5.97	179.81	804.63	36.49
41	2022-11-10	44.75	40.19	7.97	18.13	8.64	9.49	0.77	19.32	0	0.55	5.97	187.99	804.45	35.26
42	2022-11-11	34.55	41.22	5.33	17.61	8.46	9.16	0.74	20.46	0	0.55	6.09	170.19	804.44	35.34
43	2022-11-12	39.21	51.97	6.52	18.36	8.91	9.44	0.74	20.57	0	0.55	6.16	167.97	803.56	29.59
44	2022-11-13	36.73	41.15	5.3	18.18	8.73	9.45	0.76	21.7	0	0.55	6.36	191.8	804.13	34.37
45	2022-11-14	26.97	36.22	5.22	18.15	8.65	9.5	0.87	21.75	0	0.55	6.25	202.43	804.14	34.13
46	2022-11-15	43.66	39.09	5.5	18.2	8.73	9.46	0.76	21.8	0	0.54	6.08	174.83	803.96	32.47
47	2022-11-16	57.65	42.89	5.63	18.16	8.65	9.5	0.85	21.86	0	0.55	6.02	161.1	804.32	34.4
48	2022-11-17	49.79	66.51	7.03	18.2	8.69	9.52	0.85	18.92	0	0.54	6.14	184.45	804.29	34.32



**Annexure -5**

49	2022-11-18	36.7	34.89	7.21	18.17	8.65	9.54	0.73	18.46	0	0.54	6.01	184.48	804.34	34.78
50	2022-11-19	37.69	37.04	5.56	18.21	8.72	9.49	0.79	17.63	0	0.54	6.06	177.56	804.28	34.62
51	2022-11-20	36.69	38.81	7.29	18.25	8.76	9.49	0.74	16.6	0	0.54	6.2	163.34	804.41	35.4
52	2022-11-21	37.12	31.31	6.18	18.13	8.6	9.53	0.81	17.63	0	0.54	6.02	170.38	803.64	30.19
53	2022-11-22	39.75	24.58	6.18	18.27	8.79	9.48	0.81	21.84	0	0.55	6.18	156.51	803.42	28.77
54	2022-11-23	32.39	19.24	4.29	18.1	8.7	9.4	0.83	21.49	0	0.56	6.3	179.34	802.68	23.68
55	2022-11-24	22.04	8.55	5.07	18.27	8.81	9.46	0.69	21.8	0	0.56	6.39	177.28	803.2	27.05
56	2022-11-25	4.38	2.63	4.03	18.22	8.77	9.45	0.75	23	0	0.56	6.61	210.37	804.19	34.29
57	2022-11-26	3.8	3.37	4.92	18.21	8.87	9.5	0.75	23.2	0	0.56	6.67	193.06	803.68	30.94
58	2022-11-27	3.78	8.46	5.8	18.3	8.79	9.53	0.82	22.66	0	0.56	6.47	164.45	803.12	26.8
59	2022-11-28	3.6	7.74	3.95	18.33	8.89	9.44	0.94	22.96	0	0.56	6.65	202.22	802.88	25.3
60	2022-11-29	3.68	6.87	5.91	18.24	8.72	9.52	0.83	22.63	0	0.56	6.58	212.57	803.39	28.7
61	2022-11-30	3.86	5.37	6.48	18.16	8.69	9.47	0.78	19.66	0	0.55	6.62	228.7	803.93	32.3
62	2022-12-01	4.1	8.06	7.51	18.34	9.02	9.33	0.84	18.51	0	0.55	6.52	204.52	803.77	31.11
63	2022-12-02	3.69	4.21	5.17	18.2	8.76	9.43	0.81	21.56	0	0.56	6.77	226.67	802.87	25.36
64	2022-12-03	4.04	1.47	4.85	18.07	8.59	9.48	0.79	23.11	0	0.56	6.59	244.86	803.36	28.52
65	2022-12-04	4.29	1.05	5.17	18.47	9.01	9.48	0.88	23.07	0	0.56	6.47	254.92	803.41	28.73
66	2022-12-05	3.64	0.9	5.71	18.23	8.78	9.45	0.71	22.07	0	0.56	6.47	236.29	803.3	27.92
67	2022-12-06	4	0.97	7.14	18.08	8.57	9.51	0.73	20.16	0	0.55	6.52	212.99	803.85	31.77
68	2022-12-07	3.68	3.37	6.79	18.27	8.83	9.44	0.91	18.35	0	0.54	6.61	184.46	803.21	27.46
69	2022-12-08	3.57	1.24	5.94	17.98	8.75	9.23	0.89	18.78	0	0.55	6.39	163.78	803.64	30.02
70	2022-12-09	4.02	1.17	7.48	18.23	8.82	9.41	0.8	16.66	0	0.54	6.51	167.81	803.95	31.91
71	2022-12-10	3.52	0.79	6.76	18.13	8.63	9.5	0.91	18.91	0	0.55	6.43	191.05	802.61	22.84
72	2022-12-11	3.81	0.99	4.85	18.25	8.78	9.47	0.79	20.41	0	0.55	6.44	193.3	802.12	19.75
73	2022-12-12	3.44	1	3.89	18.26	8.79	9.47	0.72	20.68	0	0.56	6.57	240.4	802.19	20.26
74	2022-12-13	3.28	1.25	3.99	18.2	8.74	9.46	0.69	19.91	0	0.55	6.71	255.56	802.09	19.57
75	2022-12-14	3.69	0.92	5.66	18.08	8.6	9.48	0.68	20.91	0	0.56	6.66	247.48	803.01	26.11
76	2022-12-15	4.17	1.12	6.31	18.4	8.87	9.53	0.66	21.71	0	0.56	6.36	245.96	803.6	29.75
77	2022-12-16	4.27	1.26	6.53	18.11	8.69	9.43	0.78	22.18	0	0.56	6.39	230.41	803.55	29.22
78	2022-12-17	3.94	1.55	6.47	18.21	8.74	9.47	0.78	22.16	0	0.56	6.44	216.13	803.28	27.56



## Annexure -5

79	2022-12-18	3.8	0.76	5.79	18.24	8.75	9.49	0.85	22.17	0	0.56	6.58	217.72	803.31	28.12
80	2022-12-19	4.02	0.96	5.96	18.08	8.61	9.47	0.79	19.59	0	0.55	6.44	230.72	803.55	29.45
81	2022-12-20	4.14	0.75	7.6	18.29	8.87	9.42	0.73	19.06	0	0.55	6.37	239.83	803.5	29.16
82	2022-12-21	4.12	0.78	6.87	18.16	8.72	9.44	0.77	19.58	0	0.55	6.61	214.87	803.51	29.73
83	2022-12-22	4.17	1.26	7.2	18.27	8.74	9.53	0.73	19.64	0	0.55	6.57	256.11	803.45	29.17
84	2022-12-23	4.21	1.14	5.87	18.2	8.77	9.44	0.78	20.16	0	0.55	6.51	219.53	803.51	29.49
85	2022-12-24	3.9	1.11	6.36	18.19	8.67	9.52	0.8	19.08	0	0.55	6.57	238.59	803.33	28.14
86	2022-12-25	4.23	0.57	6.65	18.23	8.76	9.47	0.81	19.97	0	0.55	6.67	248.51	803.61	30.25
87	2022-12-26	7.96	4.46	5.12	18.19	8.69	9.5	0.74	21.43	0	0.56	6.58	238.72	803.25	27.27
88	2022-12-27	10.77	4.71	4.11	18.1	8.61	9.49	0.71	23.43	0	0.56	6.93	249.96	803.43	29.05
89	2022-12-28	26.84	4.31	4.75	18.03	8.53	9.5	0.79	23.4	0	0.56	6.82	216.86	803.54	29.79
90	2022-12-29	39.07	6.48	6.73	18.22	8.71	9.51	0.88	22.76	0	0.56	6.74	232.77	803.51	29.17
91	2022-12-30	35.87	6.45	6.04	18.22	8.84	9.38	0.84	23.37	0	0.56	6.76	219.09	803.61	30
92	2022-12-31	58.39	7.42	5.27	18.24	8.8	9.44	0.84	20.89	0	0.56	6.82	204.39	803.38	28.19
93	2023-01-01	58.48	9.12	6.24	18.13	8.68	9.45	0.9	22.2	0	0.56	6.89	204.4	803.5	29.12
94	2023-01-02	44.65	4.77	6.08	17.77	8.42	9.35	0.97	21.14	0	0.56	7	214.65	803.5	29.75
95	2023-01-03	39.24	4.75	4.19	18.03	8.53	9.5	0.84	21.38	0	0.56	6.93	204.74	803.44	29.15
96	2023-01-04	34.66	3.24	6.56	18.15	8.67	9.48	0.75	20.85	0	0.56	6.81	224.74	802.92	25.24
97	2023-01-05	21.03	7.41	6.25	18.17	8.72	9.46	0.73	19.34	0	0.55	6.98	207.66	803.46	29.45
98	2023-01-06	36.75	103.31	5.84	18.2	8.7	9.51	0.72	19.48	0	0.55	7.07	204.68	803.21	27.64
99	2023-01-07	44.49	8.92	6.07	18.24	8.77	9.46	0.86	18.86	0	0.55	7.21	194.5	803.37	28.71
100	2023-01-08	40.08	7.61	6.97	18.18	8.74	9.44	0.83	17.94	0	0.54	7.1	176.74	803.62	30.39
101	2023-01-09	39.51	8.36	6.2	18.15	8.75	9.4	0.79	16.12	0	0.54	7.05	195.29	803.95	32.64
102	2023-01-10	40.77	11.69	7.45	18.08	8.59	9.49	0.78	16.66	0	0.54	6.82	180.61	803.85	31.39
103	2023-01-11	43.76	9.31	7.47	18.09	8.64	9.44	0.83	18.46	0	0.55	6.7	181.19	803.68	30.51
104	2023-01-12	62.11	9.64	5.79	18.21	8.76	9.46	0.95	18.72	0	0.55	6.93	124.67	803.71	30.72
105	2023-01-13	57.12	9.24	6.02	18.11	8.58	9.53	0.93	18.81	0	0.55	7.26	162.45	803.57	30.02
106	2023-01-14	43.63	8.12	5.88	18.18	8.77	9.41	0.85	20.44	0	0.55	7.19	155.64	803.96	32.81
107	2023-01-15	56.69	9.56	4.8	18.13	8.67	9.46	0.94	20.3	0	0.55	7.23	194.74	803.76	31.3
108	2023-01-16	44.82	9.84	5.65	18.2	8.74	9.46	0.84	21.47	0	0.55	7.3	209.93	803.95	32.28



## Annexure -5

109	2023-01-17	42.83	7.25	5.58	18.03	8.55	9.49	0.74	21.04	0	0.55	7.5	214.56	803.93	32.46
110	2023-01-18	33.66	9.38	6.57	18.09	8.64	9.44	0.8	20.8	0	0.55	7.66	214.21	803.99	33.25
111	2023-01-19	26.83	6.22	5.64	18.2	8.76	9.44	0.7	20.34	0	0.55	7.54	205.54	804	32.85
112	2023-01-20	24.87	8.68	4.97	18.12	8.65	9.47	0.67	19.43	0	0.55	7.66	212.88	804.03	33.2
113	2023-01-21	24.8	7.96	5.27	18.32	8.81	9.52	0.67	19.75	0	0.55	7.7	200.17	804.03	33.25
114	2023-01-22	24.57	8.86	5.1	18.07	8.6	9.47	0.69	20.46	0	0.55	7.84	217.69	804.06	33.49
115	2023-01-23	32.17	8.98	6.08	18.15	8.74	9.41	0.76	19.52	0	0.55	7.82	202.47	803.9	32.27
116	2023-01-24	49.03	9.52	5.19	18.16	8.78	9.39	0.79	21.8	0	0.55	8.05	218.07	803.24	27.84
117	2023-01-25	45.76	8.79	4.56	18.23	8.81	9.42	0.81	23.51	0	0.56	8.21	203.12	803.11	27.07
118	2023-01-26	24.35	6.07	6.75	18.22	8.78	9.44	0.8	22.98	0	0.56	8.21	215.77	803.96	32.96
119	2023-01-27	23.7	7.86	6.59	18.07	8.55	9.52	0.6	21.07	0	0.55	8.11	211.66	804.33	35.17
120	2023-01-28	22.68	16.54	8.84	18.18	8.76	9.42	0.68	20.71	0	0.55	8.02	219.09	804.35	35.31
121	2023-01-29	31.67	21.07	7.2	17.71	8.51	9.2	0.76	20.93	0	0.55	8.25	216.2	804.18	34.33
122	2023-01-30	46.24	21.48	5.72	18.08	8.62	9.46	0.83	20.78	0	0.55	8.02	164.02	803.77	31.29
123	2023-01-31	43.92	14.34	3.72	18.1	8.69	9.41	0.91	21.53	0	0.55	8.11	141.37	803.47	29.51
124	2023-02-01	33.03	22.81	4.21	18.19	8.78	9.41	0.83	22.86	0	0.62	8.12	177.95	803.53	29.88
125	2023-02-02	50.82	12.66	6.61	18.2	8.81	9.39	0.82	21.41	0	0.55	8.44	191.77	804.04	33.47
126	2023-02-03	39.03	16.09	5.52	18.11	8.66	9.45	0.74	20.7	0	0.55	8.48	189.88	804.19	34.85
127	2023-02-04	53.9	15.54	7.57	18.21	8.78	9.43	0.84	21.89	0	0.55	8.24	179.12	803.98	33.19
128	2023-02-05	44.18	15.03	5.75	18.26	8.81	9.44	0.85	22.76	0	0.56	8.27	180.51	804.24	35.08
129	2023-02-06	64.41	13.97	6.26	18.01	8.56	9.45	0.94	23.64	0	0.56	8.37	183.28	804.03	33.21
130	2023-02-07	74.14	13.64	6.48	18.1	8.65	9.45	0.86	23.65	0	1.51	8.26	162.79	803.75	31.45
131	2023-02-08	65.46	15.66	5.49	18.22	8.78	9.44	0.85	23.61	0	11.23	8.31	181.89	803.81	31.76
132	2023-02-09	48.49	17.69	11.3	18.25	10.14	9.44	0.77	24.61	0	27.25	8.52	191.46	805.08	40.4
133	2023-02-10	62.27	16.81	7.37	17.66	8.42	9.56	1.01	23.56	0	8.21	9.1	191.72	804.5	36.6
134	2023-02-11	54.29	14.27	6.18	18.26	8.89	9.36	0.84	23.03	0	53.19	9.01	161.28	804.34	35.06
135	2023-02-12	49.26	16.27	5.46	18.09	8.62	9.47	0.97	23.67	0	57.72	9.24	176.92	804.46	35.79
136	2023-02-13	37.02	14.9	5.9	18.09	8.6	9.49	0.78	23.13	0	57.32	9.24	169.28	804.49	36.26
137	2023-02-14	48.08	14.41	7.78	18.25	8.74	9.51	0.83	21.95	0	77.27	9.42	178.06	804.75	37.78
138	2023-02-15	58.18	19.68	7.2	18.22	8.85	9.37	0.85	21.2	0	47.24	9.34	219.76	804.6	37.03



## Annexure -5

139	2023-02-16	52.94	18.33	6.7	18.26	8.79	9.49	0.73	23.4	0	45.59	9.32	178.31	805	39.87
140	2023-02-17	49	17.69	6.52	18.18	8.71	9.55	0.76	23.26	0	44.67	9.16	175.28	804.82	38.63
141	2023-02-18	69.36	15.11	6.16	18.13	8.7	9.43	0.83	23.52	0	43.6	9.06	176.02	804.59	37.06
142	2023-02-19	70.22	16.99	5.37	18.23	8.83	9.4	0.88	22.58	0	48.04	9.23	194.68	804.42	35.85
143	2023-02-20	50.6	18.9	3.87	18.05	8.66	9.39	0.82	23.7	0	36.33	9.15	191.63	804.53	36.82
144	2023-02-21	52.73	24.74	5.2	18.24	8.82	9.43	0.83	24.23	0	7.38	9.18	172.7	804.64	37.92
145	2023-02-22	92.06	28.5	5.93	18.22	8.88	9.42	0.77	24.71	0	0.57	9.31	190.94	804.58	37.43
146	2023-02-23	73.37	18.05	5.01	18.11	8.59	9.52	0.86	24.39	0	0.56	9.48	207.08	804.4	36.31
147	2023-02-24	58.22	12.88	7.19	17.8	8.64	9.22	0.64	24.43	0	0.57	9.54	202.86	804.5	36.99
148	2023-02-25	38.91	18.83	7.24	18.12	8.81	9.35	0.76	24.86	0	0.57	9.55	187.89	804.49	36.73
149	2023-02-26	56.6	19	7.16	18.11	8.72	9.45	0.86	24.46	0	0.57	9.6	179.24	804.76	38.84
150	2023-02-27	30.13	16.44	5.41	18.1	8.68	9.43	0.76	24.79	0	0.57	9.59	199.36	804.64	37.96
151	2023-02-28	44.67	12.88	6.52	18.19	8.77	9.42	0.89	24.32	0	0.56	9.5	200.9	804.21	34.5
152	2023-03-01	24.3	16.99	6.54	18.16	8.76	9.4	0.77	24.04	0	0.56	9.66	216.59	804.29	35.31
153	2023-03-02	30.04	13.23	6.56	18.23	8.82	9.41	0.85	24.43	0	0.56	9.9	218.66	804.45	36.59
154	2023-03-03	35.19	29.72	16.39	18.03	8.51	9.67	1.05	24.58	0	0.6	10.99	219.19	819.63	142.39
155	2023-03-04	36.1	43.57	6.99	17.96	8.38	9.59	0.7	25.71	0	0.66	12.82	201.87	839.16	288.69
156	2023-03-05	33.48	45.77	5.78	17.93	8.27	9.66	0.82	26.26	0	0.65	12.57	200.04	837.91	274.22
157	2023-03-06	28.94	39.29	6.92	17.85	8.02	9.84	0.79	26.09	0	0.64	11.84	227.44	833.55	243.84
158	2023-03-07	33.38	31.75	4.7	17.97	8.43	9.54	0.74	24.08	0	0.64	12.32	183.98	835.24	255.89
159	2023-03-08	21.74	22.27	5.65	17.95	8.24	9.71	0.82	24.36	0	0.64	12.14	214.05	836.84	263.51
160	2023-03-09	27.15	23.72	5.52	18.03	8.32	9.7	0.78	25.33	0	0.64	12.22	218.42	835.8	259.5
161	2023-03-10	31.03	25.34	6.49	18.08	8.83	9.43	0.68	25.28	0	0.65	12.28	195.93	836.7	265.63
162	2023-03-11	35.58	29.99	6.3	18.06	8.37	9.7	0.86	25.23	0	0.64	12.17	196.46	835.2	256.11
163	2023-03-12	28.98	22.65	5.68	17.96	8.31	9.64	0.76	26.54	0	0.65	12.49	215.28	837.53	272.41
164	2023-03-13	16.84	12.39	6.03	17.88	8.22	9.66	0.68	26.73	0	0.65	12.43	212.82	836.81	267.06
165	2023-03-14	45.88	29.62	5.46	18.31	8.6	9.7	0.8	26.08	0	0.65	12.44	187.06	838.07	276.17
166	2023-03-15	45.71	27.68	5.09	18	8.49	9.51	0.91	26.92	0	0.65	12.74	186.78	837.9	273.02
167	2023-03-16	38.18	30.75	3.61	18.18	8.48	9.7	0.79	24.3	0	0.65	12.81	158.52	837.42	271.66
168	2023-03-17	35.41	29.44	4.56	18.13	8.58	9.55	0.72	23.3	0	0.65	12.76	157.14	837.61	274.03



**Annexure -5**

<b>169</b>	2023-03-18	57.6	29.03	4.96	18.02	8.32	9.7	0.75	23.02	0	1.46	12.67	167.49	836.99	270.18
<b>170</b>	2023-03-19	62.79	25.58	4.59	18.11	8.66	9.45	0.73	21.89	0	20.25	13.01	175.76	839.79	290.21
<b>171</b>	2023-03-20	54.3	22.9	5.4	17.83	8.04	9.78	0.57	21.55	0	2.54	12.92	143.02	840.12	293.43
<b>172</b>	2023-03-21	54.61	17.7	5.45	17.89	8.32	9.58	0.56	22.74	0	2.67	13.25	167.91	840.38	292.53
<b>173</b>	2023-03-22	50.19	17.91	5.28	18.02	8.23	9.79	0.58	-54.92	4.88	1.62	12.78	197.64	840.04	288.4
<b>174</b>	2023-03-23	65.04	25.82	4.7	17.67	8.33	9.35	0.61	-64.49	0	1.37	13.75	180.09	847.27	338.19
<b>175</b>	2023-03-24	55.39	28.68	5.26	17.92	8.4	9.53	0.72	-64.03	0	1.38	17.04	154.55	862.53	453.49
<b>176</b>	2023-03-25	43.48	18.11	3.73	17.98	8.46	9.52	0.63	-41.67	0	1.09	17	137.56	868.24	492.13
<b>177</b>	2023-03-26	44.22	27.79	6.73	18.13	8.34	9.79	0.59	0.05	0	1.07	17.43	173.75	881.77	589.52
<b>178</b>	2023-03-27	42.12	32.16	9.26	18.05	8.56	9.49	0.65	10.73	0	1.74	16.47	152.49	881.18	581.54
<b>179</b>	2023-03-28	34.07	28.58	19.37	18.12	8.66	9.46	0.69	42.79	0	2.7	15.3	164.86	870.05	508.6
<b>180</b>	2023-03-29	38.65	28.3	14.74	17.8	8.25	9.55	0.7	42.78	0	2.39	15.41	126.73	871.39	517.81
<b>181</b>	2023-03-30	26.38	21.17	13.1	18.16	8.64	9.52	0.61	42.8	0	2.28	15.56	167.41	869.83	507.37
<b>182</b>	2023-03-31	18.88	16.32	13.95	18.28	8.65	9.62	0.61	42.86	0	2.16	15.27	164.22	870.31	505.71
<b>183</b>	Prescribed Standards	0 - 100	0 - 60	0 - 80	0 - 80	0 - 80	0 - 80	0 - 4	0 -	0 -	0 -	0 -	0 -	0 -	0 -
<b>184</b>	Maximum Value	92.06	103.31	19.37	30.88	24.97	9.84	1.05	42.86	20.18	77.27	17.43	256.11	881.77	589.52
<b>185</b>	Maximum Value At Time	2023-02-22	2023-01-06	2023-03-28	2022-10-14	2022-10-14	2023-03-06	2023-03-03	2023-03-31	2022-10-01	2023-02-14	2023-03-26	2022-12-22	2023-03-26	2023-03-26
<b>186</b>	Minimum Value	3.28	0.57	3.61	17.61	8.02	9.08	0.56	-64.49	0	0.54	5.71	115.81	802.09	19.57
<b>187</b>	Minimum Value At Time	2022-12-13	2022-12-25	2023-03-16	2022-11-11	2023-03-06	2022-10-15	2023-03-21	2023-03-23	2022-10-03	2022-10-01	2022-10-13	2022-10-01	2022-12-13	2022-12-13
<b>188</b>	Geometric Mean	31.33	18.19	6.33	18.21	8.77	9.47	0.76	20.4	0.5	3.83	8.08	192.57	810.86	81.77
<b>189</b>	Median	32.47	15.6	6.08	18.16	8.7	9.46	0.76	21.82	0	0.56	6.82	192.43	804.2	34.38



**Annexure -5**

<b>190</b>	Standard Deviation	19.04	14.61	1.94	0.96	1.22	0.1	0.09	12.33	2.43	12	2.71	28.4	16.99	121.62
<b>191</b>	Valid Data Points	182	182	182	182	182	182	182	182	182	182	182	182	182	182
<b>192</b>	Total Data Points	182	182	182	182	182	182	182	182	182	182	182	182	182	182





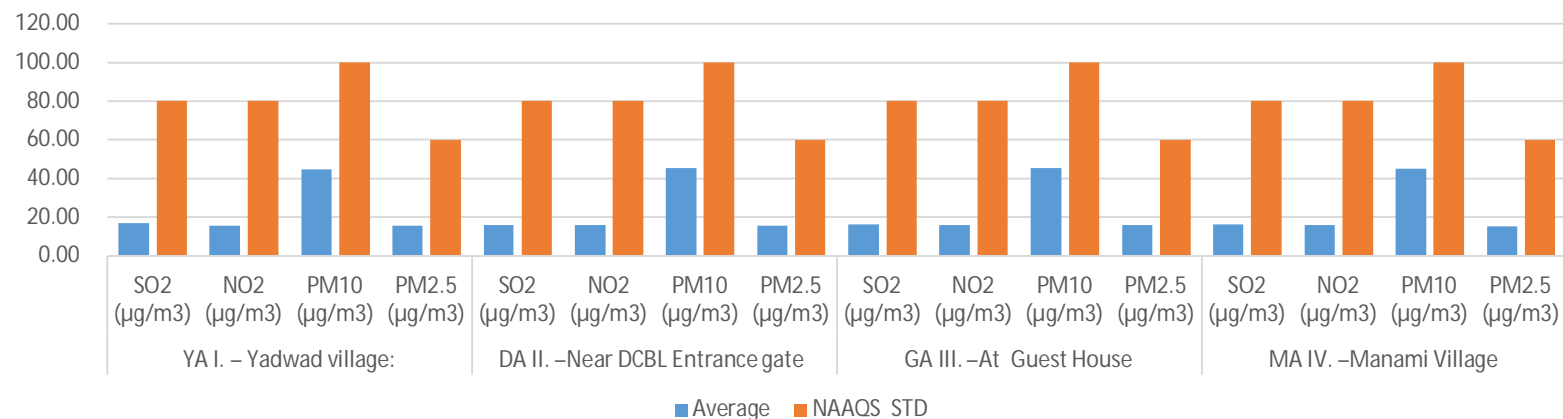
## Ambient Air Monitoring Data (Oct 2022 – Mar 2023)

Date	YA I. – Yadwad village:				DA II. –Near DCBL Entrance gate				GA III. –At Guest House				MA IV. –Manami Village			
	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )
08.10.2022	18	14	43	19	26	14	42	11	21	17	44	16	13	15	43	16
09.10.2022	14	20	37	13	20	16	38	15	13	19	41	20	15	17	45	18
10.10.2022	21	17	44	18	22	18	44	17	16	12	45	15	21	11	42	12
11.10.2022	23	13	40	14	12	15	47	13	18	14	40	17	14	19	35	15
22.10.2022	19	15	45	12	15	11	43	17	20	17	44	13	19	23	33	20
23.10.2022	22	13	38	17	13	17	37	14	23	11	37	15	16	11	42	14
24.10.2022	19	11	41	20	22	14	44	19	13	15	39	11	20	14	36	11
25.10.2022	23	16	35	11	13	21	41	14	26	12	43	15	17	21	44	19
04.11.2022	14	19	48	17	14	18	47	20	12	17	45	17	16	18	45	21
05.11.2022	15	21	44	17	18	15	45	18	16	15	44	17	17	12	46	16
06.11.2022	14	15	45	21	14	16	48	17	15	13	43	19	17	13	46	14
07.11.2022	12	17	45	19	13	16	47	20	17	14	44	18	16	17	48	15
18.11.2022	16	12	47	17	14	12	46	12	18	15	47	11	12	14	44	15
19.11.2022	18	12	43	18	13	14	45	15	17	15	46	13	13	18	44	15
20.11.2022	17	13	44	14	18	12	48	15	14	17	46	14	16	15	47	14
21.11.2022	18	14	46	14	12	17	49	12	16	13	47	12	13	18	48	15
03.12.2022	12	18	48	18	13	18	44	15	12	16	47	15	16	17	48	13
04.12.2022	14	21	46	11	15	14	46	13	18	14	44	18	18	11	45	15
05.12.2022	11	15	34	14	12	16	43	18	16	12	46	16	15	13	49	20
06.12.2022	17	22	47	19	17	21	38	16	11	20	43	12	19	21	44	13
16.12.2022	17	13	13	12	15	14	48	17	13	15	45	14	15	16	44	13
17.12.2022	16	12	44	15	13	17	47	18	17	16	46	16	18	17	47	16
18.12.2022	19	16	49	14	17	15	46	12	13	14	47	17	17	15	45	15
19.12.2022	15	13	47	12	14	16	43	15	18	16	48	14	14	16	48	13
01.01.2023	13	17	44	20	13	15	46	19	23	13	43	15	13	16	46	15
02.01.2023	20	11	48	17	18	20	38	14	18	20	45	18	17	13	44	17
03.01.2023	16	22	45	15	16	18	44	18	17	12	47	20	15	18	38	13
04.01.2023	19	15	32	18	14	12	35	13	13	15	40	13	20	14	43	16
14.01.2023	16	12	43	11	11	22	44	12	23	18	35	11	12	20	33	19

Annexure -6

15.01.2023	22	19	41	17	21	15	40	18	15	21	37	15	18	14	36	15
16.01.2023	20	16	36	13	17	11	38	15	13	16	42	20	15	19	30	17
17.01.2023	15	13	30	15	22	16	41	13	18	20	38	16	22	16	44	11
04.02.2023	13	22	44	19	19	12	42	20	18	15	41	11	21	16	46	11
05.02.2023	18	16	42	15	14	21	46	17	11	13	45	15	17	12	39	20
06.02.2023	21	13	45	17	12	19	41	12	17	21	38	19	14	23	41	16
07.02.2023	25	18	40	14	23	15	45	14	13	25	44	17	24	20	44	12
24.02.2023	14	20	56	16	14	17	49	18	17	19	54	14	17	15	51	19
25.02.2023	17	18	48	13	11	14	53	16	13	17	51	16	11	22	46	16
26.02.2023	13	16	57	19	15	18	55	13	18	20	47	13	18	17	50	13
27.02.2023	11	14	46	13	12	24	50	20	12	14	52	18	14	24	45	19
11.03.2023	14	13	53	13	18	16	52	18	17	19	47	17	19	16	48	19
12.03.2023	16	15	46	12	12	18	50	14	15	14	52	19	11	13	50	16
13.03.2023	18	17	49	16	14	17	45	15	12	15	54	15	14	17	45	15
14.03.2023	15	19	48	11	17	14	49	12	16	18	49	13	16	12	52	14
25.03.2023	21	14	40	12	20	23	50	12	25	15	44	13	22	17	49	18
26.03.2023	12	17	47	16	14	16	48	14	23	19	42	18	19	12	46	20
27.03.2023	24	15	42	19	23	18	45	11	13	15	49	16	14	23	41	14
28.03.2023	22	20	45	13	17	13	42	20	18	21	43	17	25	20	43	11
Average	16.77	15.70	44.60	15.53	16.03	15.88	45.48	15.64	16.08	15.77	45.63	15.75	16.28	16.03	45.06	15.27
NAAQS STD	80	80	100	60	80	80	100	60	80	80	100	60	80	80	100	60

Ambient Air Quality Monitoring (Oct 2022 - Mar 2023)



**Annexure-7**

**Rain Water Harvesting Pond and Catch drains at Mines and Cement Plant:**











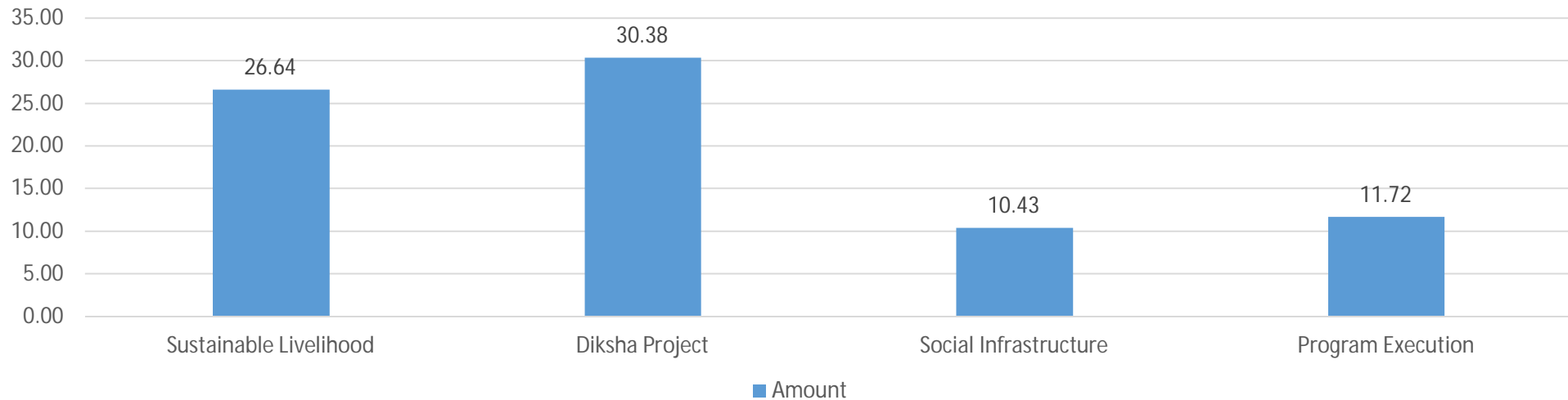
**BGM - CSR**  
**01<sup>st</sup> Oct -22 to**  
**31<sup>st</sup> Mar-23**



## Expenditure Details for the FY 2022 -23

SI No	Program	Amount in Lakhs
1	Sustainable Livelihood	26.64
2	Diksha Project	30.38
3	Social Infrastructure	10.43
4	Program Execution	11.72

CSR Expenditure for the FY 2022 -23





## Key Highlights - Sustainable Livelihood

- 691 beneficiaries supported under OML mission against the target of 3000 beneficiaries. Including 30 trainees from DIKSHa
- Rs.27.43 lakhs leveraged through various government schemes
- 70 farmers trained on Integrated crop and various Govt Schemes by Dept Officials and Progressive farmers
- 1200 Agro horticulture plants and 3100 plants have been distributed under bund plantation

## Key Highlights - Photographs



₹4.13Lakhs - 1000 litre capacity RO plant is inaugurated Shri. Sarvaottam Jarakiholi Leader and Shri Mayank Kumar Pathak HR Head DCBL, at Yadwad Janta Plot.

## Key Highlights – Social infrastructure



Health camp was conducted in collaboration with JGCo Hospital Ghataprabha. In the event 200 people got benefited

## Activity Photos



World environment day celebrated in Koppadatti Govt Higher primary school by planting the samplings. In the event school staff children and Dalmia cement officials were present. Total 112 students were present in the event



Conducted Malaria awareness program along with Health and Education Department at Koppadatti Govt. High School. 55 school children participated in the event



Facilitated in enrolling 30 members for Pradhan Mantri Shram Yogi Maandhan Yojana

## Activity Photos



Veterinary camp was conducted in collaboration with KMD dairy at Yadawad, Basawanagar.

204 castles were treated and 65 farmers got benefitted



Conducted 5 Farmers training at Hulakund under NABARD watershed programme



Observed Ozone day at Yadawad GNS school in the event 567 students were present

## Activity Photos



Conducted 2 nutrition camp at Yadwad village along ICDS and Health Department.

Conducted Dengue awareness programme at GNS schools along with health Department in the event 223 students were present.



Distributed 150 flags to Manami village and Kunnal Government Higher Primary School. Conducted Rangoli competition at Government Higher Primary School Kunnal school children and distributed prizes for the winners

# Watershed Activity Photos



# Watershed Activity Photos

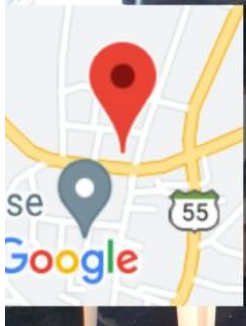




# NARBAD Watershed committee monthly meeting and DDM review visit



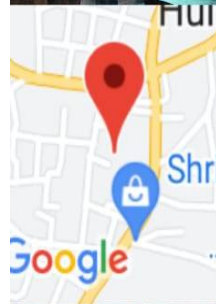
GPS Map Camera



Hulkund, Karnataka, India  
44XF+5MQ, Hulkund, Karnataka 591114, India  
Lat 16.147956°  
Long 75.124343°  
15/12/22 11:36 AM GMT +05:30



GPS Map Camera



Hulkund, Karnataka, India  
44WG+P29, SH 139, Hulkund, Karnataka 591114, India  
Lat 16.146728°  
Long 75.124749°  
15/12/22 03:15 PM GMT +05:30

# DIKSHA Skill training activity Photos



# DIKSHA Assistant Electrician Course at ITI Samrat College



Assistant Electrician Batch III Classroom Session at DIKSH Center Yadwad



Assistant Electrician Batch III Practical Session at DIKSH Center Yadwad



Assistant Electrician Batch III Practical Session at DIKSH Center Yadwad



# DIKSHA Assistant Electrician Placement Programme at Gokak



## Social Infrastructure – RO Plant installation at Yadwad



RO plant at near Honnammadevi temple, MIK School Yadwad and Govt. Kannada medium girls school Yadwad

## Social Infrastructure – RO Plant installation at Yadwad



RO plant installation at Kunnal village Govt. school, Tondikatti village Shri Venkateshwar vidyanekatan School, and Govt. School Hulkaund

## Social Infrastructure – Lighting and Compound Wall



Light support at cremation center Yadwad, Light and Fan support at Community hall, Mudhol, Compound wall support for play ground at Yadwad

# Social Infrastructure – Painting work at Anganwadi and Schools



Painting work at NSS School Yadwad, Govt. school Kurabatti and Yadwad - Anganwadi



# Social Infrastructure – Furniture and Medical Equipment's



Furniture support to Gram Panchayat library, Anganwadi and Medical equipment's support to PHC Yadwad



SHG members and Farmers exposure visit cum training at BIRDS KVK - Tukkanatti

# Poultry farming support in CSR Villages



# Health Camps



Health camp at Hulakund village, EYE check up camp at Yadwad village and General health check up camp at Yadwad village

# Veterinary camps



# Veterinary camps



# Dengue and Malaria Awareness



# Events organized during various occasions



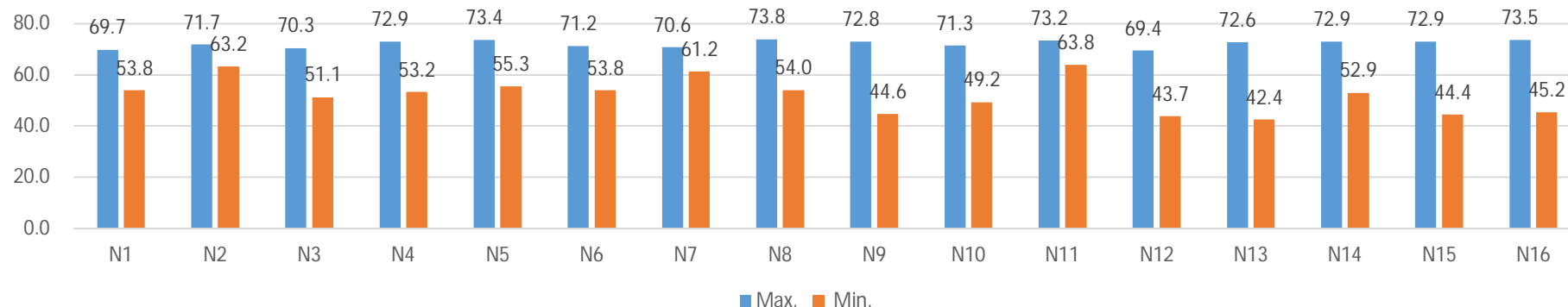


# Thank You

## WORK PLACE NOISE LEVEL MONITORING

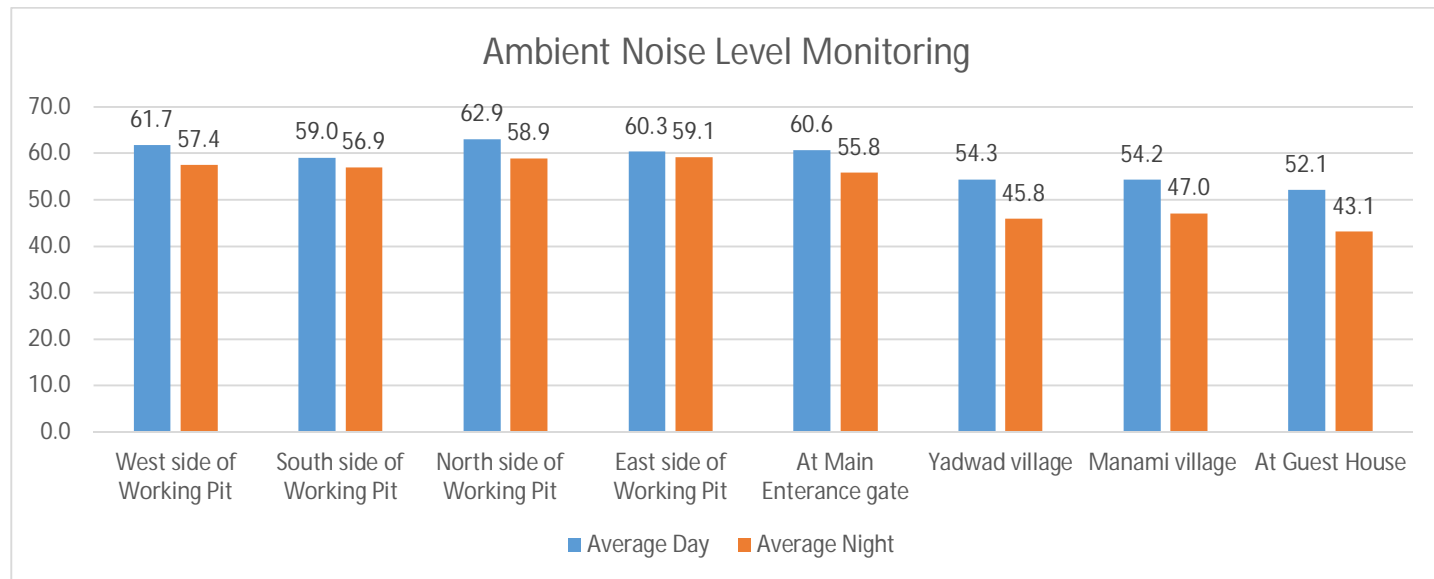
Sl.No	Code	Sampling Location	Unit	Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23		Average	
				Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1	N1	At Packing plant-truck loading	dB	69.7	66.4	69.5	53.8	68.7	65.3	63.5	60.6	65.2	60.7	67.8	63.6	75.2	53.8
2	N2	At Cement mill	dB	71.7	68.4	70.8	63.2	70.2	66.2	68.6	63.4	70.3	67.3	71.2	67.5	73.7	58.7
3	N3	At CCR	dB	65.3	60.7	64.7	51.1	70.3	66.4	67.4	64.1	66.8	62.1	68.8	62.4	74.6	51.1
4	N4	At main gate Security office	dB	72.9	71.4	72.8	64.7	67.9	53.2	63.1	62.6	58.9	55.0	68.9	61.2	72.9	53.1
5	N5	At Clinker cooler	dB	73.4	70.6	70.4	65.6	62.3	55.3	70.2	68.5	63.5	59.2	67.1	59.8	74.6	55.3
6	N6	At Raw Mill	dB	69.2	66.8	69.9	64.5	71.2	57.8	61.4	59.2	55.4	53.8	67.5	63.4	74.3	53.8
7	N7	At Coal mill	dB	70.5	67.2	70.6	66.3	68.7	62.4	68.1	65.2	66.6	62.7	63.6	61.2	71.7	61.2
8	N8	At Health centre	dB	73.6	69.1	73.8	64.4	69.2	54.2	58.8	54.0	57.1	54.6	63.9	58.8	73.8	50.9
9	N9	At CCR-CPP	dB	72.8	64.5	69.8	58.6	58.7	52.3	55.4	53.3	51.7	44.6	62.7	61.2	72.8	44.6
10	N10	At Turbine floor	dB	58.3	56.2	65.9	49.2	57.2	54.2	58.4	55.3	60.2	57.3	71.3	67.2	74.0	49.2
11	N11	At LS crusher	dB	73.2	70.5	72.2	64.5	71.2	65.6	66.8	63.8	68.4	65.5	69.8	66.4	73.2	58.4
12	N12	At Guest House	dB	59.5	57.0	61.1	52.5	54.4	44.1	60.4	58.3	52.3	43.7	69.4	63.5	72.5	43.7
13	N13	At Store	dB	71.8	68.2	62.3	53.7	53.2	42.4	59.3	57.4	61.5	59.4	72.6	66.3	72.6	42.4
14	N14	Near Packer-Packing Plant	dB	72.9	69.4	71.7	64.8	65.4	52.9	59.1	57.4	58.0	55.6	71.2	66.1	74.9	52.9
15	N15	At Mines office	dB	72.9	71.1	66.8	57.9	58.9	44.4	65.7	60.2	63.9	60.1	69.3	63.7	72.9	44.4
16	N16	Inside HEME equipment cabin	dB	73.5	68.3	59.9	48.2	58.7	45.2	66.6	62.9	65.3	63.5	73.2	65.8	73.5	45.2

Work Place Noise Monitoring ( Oct 22 - Mar 23)



## AMBIENT NOISE LEVEL MONITORING

Sl.No	Code	Sampling Location	Unit	Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23		Average		STD	
				Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1	N1	West side of Working Pit	dB	67.2	65.3	65.2	63.1	64.8	63.0	55.3	47.2	58.5	52.3	59.2	53.5	63.6	60.6	75.0	70.0
2	N2	South side of Working Pit	dB	58.4	57.2	59.1	56.4	58.7	57.8	60.8	58.7	58.2	56.2	58.9	55.1	63.1	60.5	75.0	70.0
3	N3	North side of Working Pit	dB	63.6	58.4	64.2	59.2	63.9	58.4	59.8	55.3	61.2	60.9	64.8	61.1	63.6	60.6	75.0	70.0
4	N4	East side of Working Pit	dB	59.8	57.3	58.4	58.9	57.2	56.7	65.4	63.2	60.9	60.4	60.2	58.1	60.1	57.8	75.0	70.0
5	N1	At Main Entrance gate	dB	59.8	56.2	58.7	57.1	64.5	55.6	64.9	55.2	55.2	54.4	60.7	56.1	62.6	59.2	75.0	70.0
6	N2	Yadwad village	dB	52.6	42.3	51.9	43.8	54.2	52.3	53.9	42.6	54.2	42.6	59.1	51.4	53.6	44.9	55.0	45.0
7	N3	Manami village	dB	50.1	41.8	52.2	43.2	52.4	51.1	53.1	44.3	53.3	41.2	64.2	60.5	53.8	45.4	55.0	45.0
8	N4	At Guest House	dB	53.2	44.1	54.2	43.1	51.4	45.2	52.3	41.1	50.1	42.2	51.2	42.9	52.5	43.4	55.0	45.0



# Awareness session on Nutrition to pregnant women and children at Anganwadi in Yadwad village.



An awareness session was conducted for shop floor employees on consumption of economical, locally available food stuff and about balanced diet.



## National nutrition week-shop floor employees

A Free Holistic Health camp was conducted in Yadwad village in which specialist doctors from Allopathy like Surgeon, ENT, Ophthalmologist, Gynaecologist, Ayurdic, Homeopathic and Naturopathy doctors were present. More than 200 villagers got benefitted by this camp.



## World Hand Washing Day celebration.



An awareness session was conducted for shopfloor employees 6 steps of Hand washing. As most of the diseases which spreads though feco-oral route can be prevented by proper hand washing before food consumption and after using the wash room





Our OHC staff nurse and ambulance drivers were given training on managing emergencies like HEAD INJURY, SPINE INJURY, BIOMEDICAL WASTE HANDLING.



# Biomedical waste as per KSPCB norms

- We are disposing biomedical waste as per KSPCB guidelines in which we have tied up with a common treatment facility who will collect our BMW and incinerate in their plant.
- We are submitting annual report to KSPCB regarding disposal.
- We have obtained lifetime authorization from KSPCB for generation, collection of BMW.



# Annual Health check up for O&M associates.



# Calibration of Medical Equipments

Annually we are calibrating our medical equipments through a NABL, ISO accredited laboratory to ensure that the equipments are functioning accurately.



**TBS INDIA**  
**TELEMATIC AND BIOMEDICAL SERVICES PVT. LTD.**



**CERTIFICATE OF PERFORMANCE FOR WEIGHING SCALE**

ISSUED TO : DALMIA CEMENT (BHARATH) LIMITED  
 CERTIFICATE NO : TBS/CAL/DCBL/18/01  
 LOCATION/DEPT. : OCCUPATIONAL HEALTH CENTRE      DATE : 21.09.18  
 ASSET NO : NIL      MODEL NO : HN-Z86  
 MANUFACTURER : OMRON      SERIAL NO : 201505-00338F


CALIBRATION STANDARD USED						
S.No	Asset No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date
1	TBS/OE/0159	ELECTRONIC BALANCE	ESSAE	D5-215	G2150575692	23.07.18

TEST REPORT						
S.No	Parameters	Unit	Set Value	Measured Value	Acceptable Range	Remarks
1	WEIGHT	KG	10	10.0	± 2%	PASS
			20	20.0	± 2%	PASS
			40	40.1	± 2%	PASS
			60	60.1	± 2%	PASS
			80	80.2	± 2%	PASS
			100	100.2	± 2%	PASS


Calibration Passed: YES  NO

Calibration Done Date: 21.09.18      Calibration Due Date: 21.09.19





**TBS INDIA**  
**TELEMATIC AND BIOMEDICAL SERVICES PVT. LTD.**



**CERTIFICATE OF PERFORMANCE FOR BP APPARATUS**

ISSUED TO : DALMIA CEMENT (BHARATH) LIMITED  
 CERTIFICATE NO : TBS/CAL/DCBL/18/02  
 LOCATION/DEPT. : OCCUPATIONAL HEALTH CENTRE      DATE : 21.09.18  
 ASSET NO : NIL      MODEL NO : DELUXE  
 MANUFACTURER : DIAMOND      SERIAL NO : 17937

CALIBRATION STANDARD USED						
S.No	Asset No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date
1	TBS/TE/0115	NIBP SIMULATOR	FRONK TECHNOLOGIES	SC-5 SIMCORE	5458	01.11.17

TEST REPORT						
S.No	Parameters	Unit	Set Value	Measured Value	Acceptable Range	Remarks
1	NIBP	mmHg	60	61	± 5%	PASS
			80	81	± 5%	PASS
			100	102	± 5%	PASS
			150	151	± 5%	PASS
			200	202	± 5%	PASS

Calibration Passed: YES  NO

Calibration Done Date: 21.09.18      Calibration Due Date: 21.09.19

Thank You

<b>Environmental recurring cost for FY 2022-23 (in Crores)</b>		
<b>Sl No.</b>	<b>Expenditure incurred</b>	<b>2022-2023</b>
<b>Air</b>		
1	Spare Cost Bag filter Maintenance	0.70
2	Electricity for bag filters & emission monitoring equipment.	2.60
3	Water Sprinkling hire/ Maintenance/Opr Wages	0.02
4.	Expenditure for Concreting of Road	1.01
	<b>Total recurrence cost for air in crores</b>	<b>4.32</b>
<b>Water</b>		
4	STP Operation and Maintenance	<b>0.02</b>
5	Storm water drain cleaning & Pound maintenance	---
6	ETP operation and Maintenance	0.03
	<b>Total recurrence cost for water in crores</b>	<b>0.05</b>
<b>Environment monitoring</b>		
7	AMC of Opacity & CAAQMS	0.02
8	Opacity monitor & AAQMS Maintenance & Spare	-----
9	Third party Monitoring	0.08
	<b>Total recurrence for environment Monitoring</b>	<b>0.09</b>
<b>Greenery Development</b>		
10	Greenery Development, maintenance including the Manpower	<b>0.13</b>