

DCBL/ENV/MoEF&CC/PLANT/EC/COMPL/052025/01

Date: 07.05.2025

To,
The Additional Principal Chief Conservator of Forests
Ministry of Environment, Forest & Climate Change,
Regional Office (West Central Zone),
Ground Floor, East Wing, New Secretariat Building,
Civil Lines, Nagpur - 440001

Sub: Half Yearly Compliance of Environmental Clearance issued for 2.0 MTPA of Clinker Plant, 2.16 MTPA of OPC and 2.86 MTPA PPC and Captive Power Plant of 3 x 16.5 MW at village Naranda, District - Chandrapur Maharashtra for the period of October 2024 to March 2025

Ref: 1. Environmental Clearance F. No. - J-11011/319/2006 -IA II.(I), Date: 28th June 2007
2. Amendment in EC F. No. - J-11011/319/2006 -IA.II (I), Date: 4th Sept. 2009
3. Transfer of EC vide F. No. - J-11011/319/2006 -IA.II (I), Dated 14th Dec 2021
4. Transfer of EC vide F. No. J J-11011/319/2006-IA.II(I) dated 26th Sept. 2022.

Dear Sir,

With respect to the subjected referred above, we are submitting herewith the point wise half yearly compliance of above referred Environmental Clearance for our Integrated Cement plant and Captive Power Plant for the period from **October 2024 to March 2025**.

Submitted for your kind information and record please.

Thanking you

Yours Faithfully,
For **Dalmia Cement (Bharat) Ltd.**
Unit: Chandrapur Cement Works


(Subbaraidu Ayyagari)
Unit Head

CC: 1. The Regional Director, Central Pollution Control Board (CPCB), Regional Office, Survey No, 110, Dhankude Multipurpose Hall, Baner Road, Baner, Pune, Maharashtra - 411045.

2. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. CineMax Theatre, Sion (E), Mumbai - 400 022.

3. Regional Officer, Maharashtra Pollution Control Board (MPCB), 1st Floor, Udyog Bhawan, Railway Station Road, Chandrapur - 442401

Dalmia Cement (Bharat) Limited

Chandrapur Cement Works, Village, Naranda, Taluka - Korpana, District - Chandrapur - 442916, Maharashtra, India

Corporate Office - 11th & 12th Floor, Hansalaya Building, 15 Barakhamba Road, New Delhi - 110 001, Delhi, India

T +91 11 2346 5100 Toll Free 1800 2020 W www.dalmiacement.com CIN: U65191TN1996PLC035963

Registered Office: Dalmiapuram, District Tiruchirappalli - 621 651, Tamil Nadu, India

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	IA/MH/IND/282389/2022
Compliance ID	127711969
Compliance Number(For Tracking)	EC/M/COMPLIANCE/127711969/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	29-05-2025
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	MAHARASHTRA
RO/SRO Office Address	Integrated Regional Offices, Nagpur

Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, MAHARASHTRA with Notification to Project Proponent.

ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

(Compliance Period – Oct-24 to Mar-2025)

Ref: Environmental Clearance F.No. - J-11011/319/2006 -IA II (I) dated 28.06.2007, Amendment on dated 04.09.2009 and EC Transferred on dated 14.12.2021 & 26.09.2022

Name of the Company: Dalmia Cement (Bharat) Ltd, Unit Chandrapur Cement Works

Project Name – Environmental Clearance for **Integrated Cement Plant (Clinker 2.0 MTPA, Cement -2.16 MTPA of OPC and 2.86 MTPA PPC and Captive Power Plant of 3x16.5 MW) at village Naranda, District – Chandrapur, Maharashtra.**

Detailed point wise compliance of conditions stipulated in Environmental Clearance vide F.No. - J-11011/319/2006 -IA II (I) dated 28.06.2007 is given below:

Sr. No.	Specific Conditions	Compliance
i.	The gaseous emissions from various units shall conform to the standards prescribed by the Maharashtra State Pollution Control Board. Bag filters and Electrostatic Precipitator of highest efficiency shall be installed and Particulate Emissions from the cement plant shall be less than 50 mg/Nm ³ and for CPP, the same will be less than 80-100 mg/Nm ³ . Particulate emissions from DG House will be restricted to 40 mg/Nm ³ .	<ul style="list-style-type: none">• We have taken various primary control measure to reduce the gaseous emissions and to achieve gaseous emissions well within the standards prescribed by CPCB and Maharashtra State Pollution Control Board (MPCB).• Efficient bag filters are installed at all material transfer points, loading and unloading points, Air Pollution Control equipment installed i.e. Bag houses attached at Coal Mill, Raw Mill & Kiln, Cement Mill-1 & 2 and ESPs attached to CPP boiler & Clinker Cooler section, emission levels of cement plant including DG sets are well within standards prescribed by CPCB & MPCB.• We have replaced Electro static Precipitators (ESP) with Reverse Air Bag House in Raw Mill/Kiln, single phase transformer replaced with three phase transformers in cooler to increase the ESP efficiency of Clinker Cooler ESP, ESP attached with CPP boiler and also upgraded from 3 field ESP to 6 fields ESP and 2 phase transformers to 3 phase transformers to meet the emissions norms specified vide MoEF&CC notification G.S.R. 497 (E) 10th May, 2016 for Cement Plant with co-processing.• Installed low NO_x Burner in Cement Kiln to control NO_x emissions and lime dosing arrangements in CPP to control SO₂ emissions within prescribed norms.• Particulate emission and gaseous emissions monitoring data during the compliance period October-24 to March 25 is enclosed as Annexure-I.

ii.	Five stacks of the prescribed height (as presented before the Environmental clearance EC) shall be erected to disperse SO _x and NO _x . All the major stacks shall be provided with continuous emission monitoring for particulate matter.	<ul style="list-style-type: none"> • We have constructed/erected the stacks to better dispersion of the SO₂, NO_x and PM emissions. • Continuous Emission Monitoring System (CEMS) provided at all major stacks for monitoring of particulate matter and gaseous emission monitoring as per applicability. Data of CEMS is being transferred to CPCB & MPCB server. • Major Stack details are enclosed as Annexure-II.
iii.	Continuous On-line monitors for particulate emissions, SO ₂ and NO _x in Raw/kiln mill, clinker cooler, coal mill, cement mill etc. shall be provided and shall make necessary arrangements for submission of On-line real time emission data to CPCB website. NO _x burners shall be installed to control NO _x emissions. Interlocking facility shall be provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	<ul style="list-style-type: none"> • We have installed Continuous Emission Monitoring System (CEMS) at all major stacks for the listed parameters i.e. PM, SO₂ & NO_x. • All the necessary arrangements are made for the real time emission data at all major stacks, the data is being uploaded to MPCB and CPCB server. • Low NO_x burner installed in Cement Kiln and CPP Boiler to control the NO_x emission • Interlocking facility has been provided at all pollution control equipment to stop the process in case failure of the Air Pollution Control (APC) equipment. • Interlocking facility logic is enclosed as Annexure-XVIII.
iv.	Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the Maharashtra Pollution Control Board. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and MPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated regularly.	<ul style="list-style-type: none"> • Regular Ambient Air Quality Monitoring is being carried out through NABL accredited and MOEF&CC approved laboratory i.e. M/s Go Green Mechanisms Pvt. Ltd., Nagpur and data is being submitted to MPCB on monthly basis. • Continuous Ambient Air Quality Monitoring stations have set up in consultation with Maharashtra State Pollution Control Board. • On-line data for Continuous Emissions, Effluent and Ambient Air Quality Monitoring Station is being transferred to the CPCB and MPCB regularly. • Calibration of Monitoring Instruments is being done at regular intervals. • Photographs of CAAQMS stations, CEMS and CEQMS are enclosed as Annexure-III. • Ambient air quality monitoring data for the Compliance period (October 24 to March 2025) is enclosed as Annexure-IV.
v.	Raw material will be properly covered and clinker shall be stored in a dome with all round high sidewalls to control fugitive	<ul style="list-style-type: none"> • Covered sheds are provided for storage of raw material & fuel i.e. Gypsum, Additives, AFR material, coal & petcoke. • Photographs of covered sheds and Conveyor belts are enclosed as Annexure-V.

	emissions. Fugitive emissions from cement mill, packing area and coal yard shall also be controlled.	<ul style="list-style-type: none"> • Clinker is being stored in a dome with all round high sidewalls and provided bag filters to control fugitive emissions • Fly ash unloading through pneumatic system & transporting through bulker and stored in closed Silo • Cement is being stored in closed Silos. • Efficient bag filters are provided at Cement mill, packing area and Coal handling section to control the fugitive dust emission. • Mechanical Road Sweeper deployed for the road cleaning. • Photographs of Dust Control Measures are enclosed as Annexure -VI.
vi.	Dust collectors and extraction system (suction apparatus) shall be installed to control fugitive dust emissions at coal and limestone unloading points, at all the transfer points, stockpiles to arrest free release of dust.	Raw materials are being transported through covered belt conveyor. Bag filters are provided at all material transfer points of covered belt conveyors, raw material loading & unloading points to arrest the fugitive dust emission. Material collected in bag filters is being recycled into the process.
vii.	Materials will be transported in tippers, covered trucks, covered containers, covered rail wagons etc.	<ul style="list-style-type: none"> • Materials is being transported in tippers, tarpaulin covered trucks, covered containers. • Fly ash is being transported in the closed bulkers.
viii.	Windbreakers will be installed to restrict fugitive dust.	Windbreakers are installed/deployed in dust prone areas.
ix.	Water sprinkling arrangement should be made in the raw material stock yard and dust collectors in cement bag loading areas.	<ul style="list-style-type: none"> • Water sprinkling systems have been installed at Limestone crusher hopper to minimize the dust generation. • Efficient bag filters are provided at raw material conveyer system and material transfer points. • Water tanker provide for regular sprinkling of water on all internal roads and near stock yards. • Efficient Bag Filters are provided at Packing Plant
x.	Total water requirement from Wardha /Pen Ganga River shall not exceed 6020 m ³ /d as per the permission granted by State Irrigation Department.	Noted and being complied with. An Agreement between Dalmia Cement (Bharat) Ltd, Unit Chandrapur Cement Works (DCBL) and Water Resources department, Chandrapur has been made on 30.06.2023 for 2.5 Mcum per year and valid from 1st July 2023 to 30th June 2028. Copy of Agreement is enclosed as Annexure-XV.
xi.	Minimum Cycle of Concentration (COC) for the CPP will be 5.0.	We maintain the Minimum 05 cycle of concentration for the CPP
xii.	The wastewater from CPP and domestic activities shall be treated in Effluent	<ul style="list-style-type: none"> • No effluent is being /will be discharged outside the plant premises and adopted zero liquid discharge.

	<p>Treatment Plant (ETP) and Sewage Water Reclamation Plant (SWRP) respectively and recycled/reused in cement plant for make-up, in CPP for cooling, dust suppression, other plant related activities and green belt development. No wastewater will be released outside the premises. Zero discharge shall be strictly adopted. During monsoon, the wastewater will be stored in the mine pit.</p>	<ul style="list-style-type: none"> Wastewater from CPP is treated in ETP (neutralization pit) and treated water is recycled back to process/Reused in dust suppression and cooling at cement plant. The Domestic wastewater is being treated in Sewage Treatment Plants 5 Nos (1x 75 KLD, 2 x 20 KLD & 2 x 5 KLD Capacity) and treated water is being utilized for greenbelt development and plantation. Photographs of Sewage treatment plant (5 Nos) are enclosed as Annexure -VII
xiii.	<p>Solid waste generated shall be 100 % recycled and reutilized in the process itself and no solid waste shall be disposed off outside the plant premises. The fly ash generated will be used in-house for the manufacture of PPC. Bottom ash shall be used in the raw mill and used for land filling. Treated STP sludge shall be used as manure for green belt development. Waste oil sludge shall be reused in the plant and finally burnt in the kiln or sold to authorized recyclers/ re-processors.</p>	<ul style="list-style-type: none"> The solid waste i.e. dust collected from air pollution control equipment is being recycled back in to process. The Fly ash generated from CPP is being utilized for manufacturing of PPC. Bottom Ash generated from CPP is being used in cement manufacturing or sold to brick manufacturing agency. Sludge generated from STPs is being utilized as manure for greenbelt development and plantation. The waste oil, grease generated during plant operation is being /will be sold to authorized recycler.
xiv.	<p>The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).</p>	<p>Noted and being Complied. Details of CSR Activities along with year wise expenditures and photographs is enclosed as Annexure-XVII.</p>
xv.	<p>As agreed, green belt shall be developed in 17 ha area.</p>	<ul style="list-style-type: none"> Murli Industries Limited ("MIL") went into financial distress in 2015, resulting in the stoppage of plant and allied activities. Pursuant to implementation of the Resolution Plan, MIL has become a subsidiary of DCBL from 10.09.2020. DCBL acquired the plant and initiated the revival of MIL from insolvency dated 10.09.2020 and obtained CTO from MPCB vide Consent order dated 07.04.2021. Post acquisition plantation and maintenance activities were initiated, plantation & green belt is being developed in and along the periphery of plant premises. We have covered 15.8 Ha of area under green belt and plantation and which is our continuous ongoing programme. We assure to achieve 17 ha within one year. Greenbelt & Plantation photographs is enclosed as Annexure -VIII.

xvi.	The company must harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion project 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.	<ul style="list-style-type: none"> Storm/Rain Water accumulated is being harvested in the mined-out pits and the harvested water is being utilized for plant operation and various activities to conserve fresh water. We have Constructed 20 Nos of rain water harvesting structures in nearby villages including plant area to recharge the ground water. Rainwater from the rooftops of the buildings is being collected and utilized for utility activities inside the plant. Photographs of Rainwater Harvesting Structures are enclosed as Annexure-IX.
	GENERAL CONDITIONS	
i.	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (MPCB) and the State Government.	We are committed to follow the stipulations made by Maharashtra Pollution Control Board (MPCB) and the State Government.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	<ul style="list-style-type: none"> Noted and will be complied No expansion and modifications in the plant will be carried out without prior approval from MoEF&CC.
iii.	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the MPCB. Regular monitoring shall be carried out for relevant parameters.	<ul style="list-style-type: none"> Influent and effluent quality monitoring stations set up in consultation with the MPCB. For relevant parameters Regular monitoring is being carried out by NABL accredited and MOEF&CC approved authorized agency and data is being submitted to the MPCB on monthly basis.
iv.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Environmental protection measures and safeguards recommended in the EIA/EMP report are being Complied with.
v.	Industrial wastewater 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 wastewater shall be utilized for plantation purpose.	<ul style="list-style-type: none"> ETP (neutralization pit) is provided for treatment of industrial wastewater from CPP and treated wastewater conforms to the standards prescribed under GSR 422 (E) as amended. Quality of ETP (Neutralization pit) outlet for the period of October 24 to March 25 is enclosed as Annexure-X. The treated wastewater is being recycled back in to process/reused in dust suppression and green belt development & plantation. RO reject water is being used in mill spray

vi.	The overall noise levels in and around the plant area shall be limited within the prescribed standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	<ul style="list-style-type: none"> Noise abatement measures including acoustic hoods, silencers, enclosures etc. have been provided at appropriate places in order to meet the standards prescribed and same is being maintained. Noise Level is being monitoring in & around the plant area results are well within the prescribed standards and details are enclosed as Annexure-XI.
vii.	Proper Housekeeping and adequate occupational health programmes shall be taken up. Regular Occupational Health Surveillance Programme shall be carried and records shall be maintained properly for at least 30-40 years. The programme shall include lung function and sputum tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	<ul style="list-style-type: none"> Housekeeping and Occupational health programmes are being taken up in the plant premises and will be continued in future too. Regular Occupational Health Surveillance program is being taken up for employees & workers and records will be maintained for at least 30-40 years. As the company has been recovered from Insolvency through NCLT route, the older documents are not available. Pre-Occupational Health Check-ups have been carried out for all the employees and workers. Latest health check-up report & photographs are enclosed as Annexure-XII.
viii.	A separate environment management cell with full fledge laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.	<ul style="list-style-type: none"> A separate Environment Management Cell has been set up under the control of Unit Head. For the regular environmental monitoring and analysis purpose, we have installed Environmental laboratory inside the plant premises. In addition, regular environment monitoring is being done from the MoEFCC/NABL accredited laboratory i.e. Go Green Mechanisms Pvt. Ltd., Nagpur Photographs of Environment laboratory facilities are enclosed as Annexure-XIII.
ix.	As proposed in the EIA/EMP, Rs. 31.08 Cr and Rs. 0.313 Cr/annum shall be earmarked to meet the capital cost and recurring cost/annum for the environmental protection measures shall be used judiciously 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"> Company has invested Rs. 40.30 Crores as Capital Cost for the installation and upgradation of Pollution Control Equipment's and Rs 0.964 Cr as recurring cost to maintain the particulate & gaseous emission levels within prescribed standards The funds earmarked towards recurring cost will not be diverted for any other purpose. The Expenditure for the Environment Protection measure during Apr 24 to Mar 2025 are enclosed as Annexure-XIV.
x.	Regional Office of this Ministry at Bhopal/Maharashtra Pollution Control	<ul style="list-style-type: none"> Six monthly compliance status report along with monitoring data is being submitted to concern authority on regular basis.

	Board/Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	<ul style="list-style-type: none"> Last Six-monthly compliance status and monitoring report for Apr 2024 – Sep 24 was submitted to regional office, MoEFCC, Nagpur & MPCB vide compliance No. EC/M/COMPLIANCE/113274510/2024 Dated 30.11.2024
xi.	The Project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Maharashtra Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bhopal.	<p>Complied with.</p> <p>Company has been recovered from Insolvency through National Company Law Tribunal (NCLT) route, the older documents are not available.</p>
xii.	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 start of land development work.	<p>Complied by Murli Industries Limited (MIL).</p> <p>Company has been recovered from Insolvency through National Company Law Tribunal (NCLT) route, the older documents are not available.</p> <p>Acquisition of Murli Industries Limited (MIL) pursuant to the approval of Resolution Plan by NCLT in favour of DCBL.</p> <p>Copy of Intimation letter to MOEFCC is enclosed as Annexure-XVI.</p>
5	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
6	The Ministry reserves the right to stipulate additional conditions if found necessary.	Noted.

	The company will implement these conditions in a time bound manner.	
7	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, Hazardous Waste (Management & Handling) Rules, 1989 and Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 along with their amendments and rules.	Noted.

ANNEXURE-I
PARTICULATE MATTER AND GASEOUS EMISSION MONITORING REPORT

Particulate Matter Emission Monitoring Report

* All values are in mg/Nm³

Location	Standard	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
Raw mill + kiln	30 mg/Nm ³	17.53	23.19	21.8	18.27	23.79	23.24
Coal Mill	30 mg/Nm ³	27.66	23.7	23.21	22.78	26.31	28.54
Clinker Cooler	30 mg/Nm ³	26.31	21.68	23.05	24.47	20.94	17.61
Cement Mill 1	30 mg/Nm ³	28.57	24.7	21.81	26.23	23.11	26.48
Cement Mill 2	30 mg/Nm ³	23.55	24.02	22.25	20.8	24.77	24.83
Packer-1	30 mg/Nm ³	25.75	23.91	22.82	27.29	24.49	26.73
Packer-2	30 mg/Nm ³	21.25	25.36	20.81	19.79	25.24	23.78
Packer-3	30 mg/Nm ³	17.92	24.71	21.88	24.61	25.83	28.14
CPP	50 mg/Nm ³	40.44	41.93	36.55	39.87	41.55	42.95

Gaseous Emission Monitoring Report

* All values are in mg/Nm³

Location	Parameters	Standard	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
Raw mill + kiln	SO ₂	700 mg/Nm ³	41.88	36.35	37.17	32.19	35.79	41.78
	NO _x	800 mg/Nm ³	349.62	281.23	314.98	338.21	386.76	321.48
CPP	SO ₂	600 mg/Nm ³	400.52	391.46	413.61	378.72	460.02	421.13
	NO _x	450 mg/Nm ³	355.26	315.69	347.74	307.95	356.58	355.11

ANNEXURE-II**MAJOR STACK IN INTEGRATED CEMENT PLANT**

Stack No.	Source	APC system Provided	Monitoring Parameters	Stack Height (in Metres)	Material of Construction
1	Raw mill & Kiln outlet	Jet Pulse Bag House	PM, SO ₂ & NO _x	110	Mild steel
2	Coal Mill	Bag House	PM	118.00	Mild steel
3	Clinker Cooler	ESP	PM	54.00	Mild steel
4	Cement Mill No-01	Bag filter	PM	35	Mild steel
5	Cement Mill No-02	Bag filter	PM	35	Mild steel
6	Captive Thermal Power Plant (2x 16.5 MW)-	ESP-01 & 02	PM, SO ₂ , NO _x & Hg	83	RCC
7	Packer-1	Bag filter	PM	40.5	Mild steel
8	Packer-2	Bag filter	PM	40.5	Mild steel
9	Packer-3	Bag filter	PM	40.5	Mild steel
10	DG House 1 (1500 KVA)	Acoustic Enclosure	TPM, SO ₂ , NO _x , CO, NMHC	30	Mild steel
11	DG House 1 (1500 KVA)	Acoustic Enclosure	TPM, SO ₂ , NO _x , CO, NMHC	30	Mild steel

ANNEXURE-III
INSTALLATION OF CAAQMS, CEMS AND CEQMS STATIONS



CAAQMS -01 installed at Plant Main Gate



CAAQMS -02 installed at CPP Area

ANNEXURE-III
INSTALLATION OF CAAQMS, CEMS AND CEQMS STATIONS



CAAQMS -03 Installed at Crusher Area (Mines)



Installation of CEMS for Gaseous Emission Monitoring at Raw Mill + Kiln and CPP

ANNEXURE-III

INSTALLATION OF CAAQMS, CEMS AND CEQMS STATIONS

Installation of Opacity Meter for PM Monitoring at Major Stacks



Captive Power Plant



Cooler ESP



Cement Mill-1



Cement Mill-2

ANNEXURE-III

INSTALLATION OF CAAQMS, CEMS AND CEQMS STATIONS



Raw Mill



Coal Mill

Installation of CEQMS system at Neutralization Pit



ANNEXURE-IV
AMBIENT AIR QUALITY MONITORING DATA

AAQM Station - 01 at Main Gate				
Month	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO₂ (µg/m³)	NO₂ (µg/m³)
Standard	60	100.0	80.0	80.0
Oct-24	33.74	64.41	11.79	15.86
Nov-24	28.74	57.35	12.62	17.99
Dec-24	36.66	68.48	13.32	19.43
Jan-25	39.58	73.78	17.24	23.00
Feb-25	37.91	75.52	16.16	28.33
Mar-25	39.16	78.39	18.70	30.62
AAQM Station - 02 Near CPP Area				
Oct-24	34.16	66.21	14.34	19.50
Nov-24	34.16	62.81	11.85	18.90
Dec-24	30.41	70.46	15.57	21.51
Jan-25	42.07	77.52	20.63	26.92
Feb-25	37.91	75.52	16.16	28.33
Mar-25	35.41	74.22	15.38	27.22
AAQM Station - 03 at Limestone Crusher Area				
Oct-24	37.91	72.33	14.83	23.10
Nov-24	33.74	59.66	14.67	19.90
Dec-24	38.32	76.64	12.48	25.77
Jan-25	37.49	70.69	15.48	21.51
Feb-25	35.41	71.53	14.69	24.79
Mar-25	42.07	81.37	20.86	32.89

ANNEXURE-V
PHOTOGRAPHS OF COVERED STORAGE SHEDS, SILOS AND COVERED BELT CONVEYORS



Raw Material Covered Shed



AFR Covered Shed



Gypsum Covered Shed



Coal Covered Shed



Covered Belt Conveyors



Cement Silos

ANNEXURE-V
PHOTOGRAPHS OF COVERED STORAGE SHEDS, SILOS AND COVERED BELT CONVEYORS



Clinker Dome



Fly Ash Silo



ANNEXURE- VI
PHOTOGRAPHS OF DUST CONTROL MEASURES



Mechanical Road Sweeper deployed for Road Cleaning



Water Sprinkling on Roads



Water Sprinkling System along the Road

TRUCKS COVERED WITH TARPAULIN COVER



ANNEXURE-VII
PHOTOGRAPHS OF SEWAGE TREATMENT PLANT



Sewage Treatment Plant Installed near Staff Colony (Capacity: 75 KLD)

ANNEXURE-VII
PHOTOGRAPHS OF SEWAGE TREATMENT PLANT



Sewage Treatment Plant Installed at Packing Plant Area (Capacity: 5 KLD)



Sewage Treatment Plant Installed at CCR Area (Capacity: 5 KLD)

ANNEXURE-VII
PHOTOGRAPHS OF SEWAGE TREATMENT PLANT



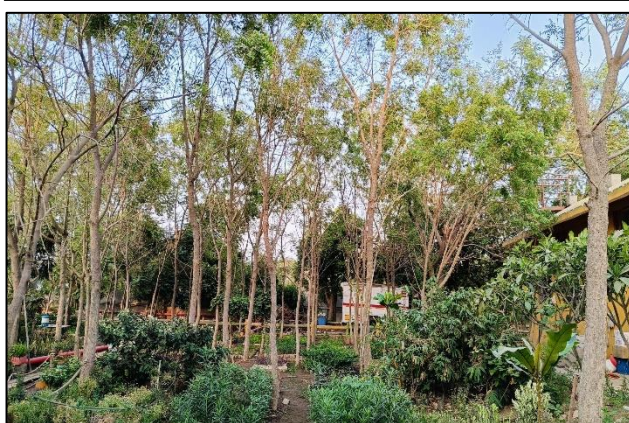
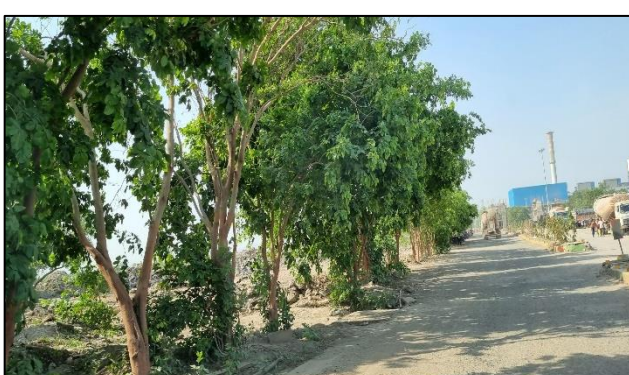
Sewage Treatment Plant Installed at Temporary Hutment Area (Capacity: 20 KLD)



Sewage Treatment Plant Installed at Admine Building Main Gate (Capacity: 20 KLD)

ANNEXURE - VIII
PHOTOGRAPHS OF GREEN BELT DEVELOPMENT AND PLANTATION

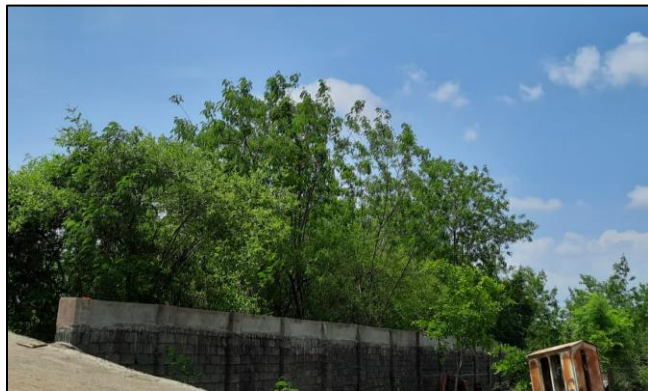
Greenbelt Development and Plantation at Plant Site



ANNEXURE - VIII
PHOTOGRAPHS OF GREEN BELT DEVELOPMENT AND PLANTATION



ANNEXURE - VIII
PHOTOGRAPHS OF GREEN BELT DEVELOPMENT AND PLANTATION



Plantation at Plant Area

ANNEXURE - VIII
PHOTOGRAPHS OF GREEN BELT DEVELOPMENT AND PLANTATION

Inhouse Nursery Development for Future Plantation



Annexure-IX

RAINWATER HARVESTING MEASURES



Naranda Village (RWH-1)



Naranda Village (RWH-2)



Naranda Village (RWH-3)



Naranda Village (RWH-4)



Naranda Village (RWH-5)



Plant Site (RWH-6)

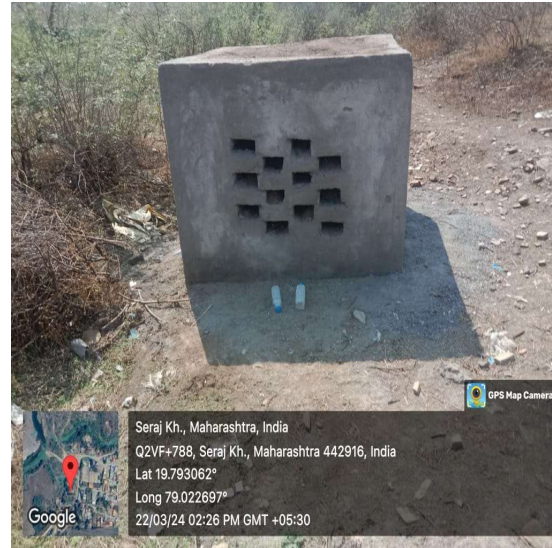
Annexure-IX



Pimpri Village (RWH-7)



Pimpri Village (RWH-8)



Pimpri Village (RWH-9)



Loni Village (RWH-10)



Bori Navegaon Vill. (RWH-11)



Kadholi Kh Vill.(RWH-12)



Wanoja Village (RWH-13)



Wanoja Village (RWH-14)

Annexure-IX



Zutting Village (RWH-15)



Zutting Village (RWH-16)



Zutting Village (RWH-17)



Zutting Village (RWH-18)



Zutting Village (RWH-19)



Zutting Village (RWH-20)

Annexure-IX
DEEPENING OF POND NEAR NARANDA VILLAGE



ANNEXURE-X
ETP (NEUTRALIZATION PIT) OUTLET DATA

Parameter	pH	TDS	TSS	BOD	COD	Oil and Grease
Unit		mg/L	mg/L	mg/L	mg/L	mg/L
Standard	5.5 to 8.5	2100 max.	100	30	100	10 max.
Oct-24	7.72	922.0	45.0	9.6	36.0	BQL(QL=2)
Nov-24	7.66	591.0	28.0	7.3	24.0	BQL(QL=2)
Dec-24	7.60	830.0	32.0	8.0	28.0	BQL(QL=2)
Jan-25	7.27	892.0	44.0	7.3	32.0	BQL(QL=2)
Feb-25	7.48	752.0	34.0	6.8	36.0	BQL(QL=2)
Mar-25	7.58	744.0	31.0	5.5	28.0	BQL(QL=2)

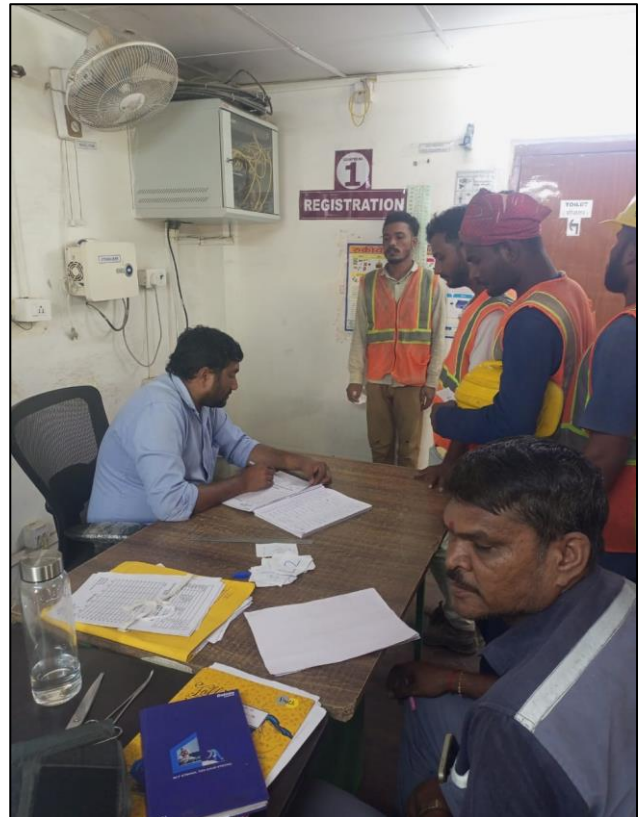
ANNEXURE-XI
NOISE LEVEL MONITORING DATA

Location	Limestone Stacker		CPP Area		Main gate	
Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Standard	75 (dB)	70 (dB)	75 (dB)	70 (dB)	75 (dB)	70 (dB)
Oct-24	70.3	60.2	69.9	62.4	67.7	58.2
Nov-24	68.1	54.8	66.8	59.9	67.4	56.9
Dec-24	68.5	61	66.9	63.9	68.8	60.4
Jan-25	66.7	56.5	68.2	57.9	65.1	57.4
Feb-25	65.3	57.8	68.65	60.7	64.81	58.24
Mar-25	69.5	57.6	67.3	56.3	65.2	57.8

ANNEXURE-XII
PHOTOGRAPHS OF ANNUAL HEALTH CHECK-UP



ANNEXURE-XII
PHOTOGRAPHS OF ANNUAL HEALTH CHECK-UP



ANNEXURE-XIII
ENVIRONMENT LABORATORY FACILITIES



ANNEXURE-XIV
EXPENDITURES ON ENVIRONMENT PROTECTION MEASURES
(APR 24 TO Mar 25)

SN	Activity	Expenditure in Lakhs		
		(Apr to Sep-24)	(Oct to Mar-25)	FY 2024-25
1	Operation and Maintenance of Air Pollution Control Equipment	430.3	547.5	977.8
2	Water Pollution Control Measures	10.1	34.1	44.2
3	Fugitive Dust Emission Control Measures	44.52	51.16	95.7
4	Environment Monitoring & Calibration	9.50	18.35	27.9
5	Green Belt Development	18.5	18.0	36.5
6	Waste Management	408.65	392.35	801.0
7	Env Exp in Nearby Community	0.96	1	2.0
8	Environment Awareness	0.75	0.50	1.3
	Total	923.3	1062.9	1986.3



cement! sugar! refractories! power!

Date: 28/06/2023

DCBL/CA/Irr.Pen.River Agree/06-23/0010

To,
The Executive Engineer
Chandrapur Irrigation Division,
Civil Lines, Chandrapur (M.S)


Sub:-Submission of Agreement for Approval.

Dear Sir,

Kindly refer your letter जा क्र 1661/राजस्व/मुरली बिगर सिंचन /2023., dtd.15.06.2023, according to the same and subsequent discussion with you, we are submitting the Agreement for your approval to draw the water from Penganga River for our Industrial and domestic purpose.

Please grant your approval for the Agreement and oblige.
Thanking you.

Yours truly
For Dalmia Cement (Bharat) Limited


Subbaraidu Ayyagari
(Plant Head)

- Encl:- 1) Agreement -5 sets (1 Original, 4 Photo Copy)
2) MPCB Consent to Operate Plant (Photo Copy)
3) Company 7/12 (Photo Copy)
4) Company Layout Map (Photo Copy)
5) Memorandum of Articles Association (Photo Copy)
6) Certificate of Incorporation (Photo Copy)
7) Resolution Board of Directors (Photo Copy)
8) Cheque Rs.1,23,442/- (Original Cheque No.160849, dtd. 17.06.2023)
9) Letter for Chief Engineer, Nagpur (Photo Copy)

Dalmia Cement (Bharat) Limited

Chandrapur Cement Works, Village, Naranda, Taluka - Korpana, District - Chandrapur - 442916, Maharashtra, India

Corporate Office -11th & 12th Floor, Hansalaya Building, 15 Barakhamba Road, New Delhi - 110 001, Delhi, India

T +91 11 2346 5100 Toll Free 1800 2020 W www.dalmiacement.com CIN: U65191TN1996PLC035963

Registered Office: Dalmiapuram, District Tiruchirappalli - 621 651, Tamil Nadu, India

A Dalmia Bharat Group company, www.dalmiabharat.com

DALMIA CEMENT (BHARAT) LIMITED
CHANDRAPUR CEMENT WORKS
VILLAGE NARANDA

BETWEEN

WATER RESOURCE DEPARTMENT
CHANDRAPUR

VALID FROM 1ST JULY 2023 TO 30TH JUNE 2028



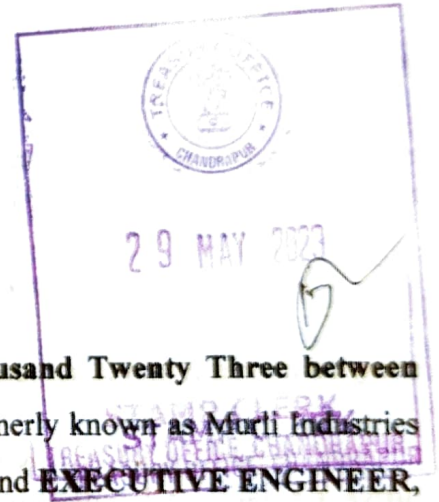
महाराष्ट्र MAHARASHTRA

2022

BS 757958



AGREEMENT
Stamp Rs.1000/-
(For non-Irrigation water supply)



An agreement made on the 30th date of June Two Thousand Twenty Three between **Dalmia Cement (Bharat) Limited, Chandrapur Cement Works** (formerly known as Murl Industries Ltd.) **Village Naranda., Tehsil Koroana., Distt: Chandrapur- 442916 and EXECUTIVE ENGINEER, IRRIGATION DIVISION CHANDRAPUR, NAGPUR ROAD, CIVIL LINES, CHANDRAPUR** Local self Government body such as Gram panchayat, Municipal authorities, Zilla Parishad, Jeewan Pradhikaran or company and Industrial corporation (which expression hereinafter referred to as 'the company' shall, unless excluded by or it be repugnant to the context or meaning thereof be deemed to include its successors and assigns) registered under the Indian Companies Act, 1913 (VII of 1913), the companies Act, 1956(I of 1956) and having its registered Office at Dalmiapuram, District Tiruchirappalli - 621 651, (T.N), India hereinafter referred to as 'the company' of the one part and the Governor of Maharashtra hereinafter referred to as 'the Government' (which expression shall unless excluded by or it be repugnant to the context or meaning thereof be deemed to include his successors and assigns) of the other part.

For, Dalmia Cement (Bharat) Ltd.

Executive Engineer,
Chandrapur Irrigation Division,
CHANDRAPUR.

दस्तावा प्रकार/अनुच्छेद क्रमांक
दस्त नोंदणी करणार आहेत का ?
नोंदणी होणार आहे काय
दुय्यम निबंधन अर्जाकडचे नांव
मिळवणीचे वारान
मोबदल रक्कम
मुद्रांक विकत घेणाऱ्याचे नांव
दुसऱ्या पक्षकाराचे नांव
हस्ते असल्यास त्याचे नांव व पत्ता
मुद्रांक शुल्क रक्कम
मुद्रांक विक्री नोंद वही अनु.क्र.
मुद्रांक विकत घेणाऱ्याची सही
बीमती मंडळिनी अ देशमुख, स्टॅम्प विक्रीत, चंद्रपूर

करीनामा
डालमिया सिमेंट (भारत) लि. नोंदणी
जो सुधासायब अग्रहारी तलाव जमका

५००/-
४९४९

१९/६/२०२३

Whereas the company is desirous of constructing a pumping station on the company's land at Survey No. 131 Naranda, Village Dalmia Cement (Bharat) Limited (formerly known as Murli Industries Ltd.) for drawing water from the source (Penganga River) (hereinafter referred to as "the said source") for the use by the company's----- Plant. (hereinafter referred to as "the said Plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

AND whereas the company has applied to the Government for permission to

Draw 2.50 Million Cum. of water per year from the said source.

AND whereas the company has paid Rs. Nill (Rupees-----) to Government towards the proportional cost of capital out lay of the project.

AND whereas the Government has agreed to grant the aforesaid permission to the Company on the terms and conditions hereinafter appearing.

AND WHEREAS UNDER the said terms and conditions the company has to deposit with the Executive Engineer, Chandrapur Irrigation Division, Chandrapur to the Government a sum of Rs. 27,50,002/- as security equivalent to 2 Months company's probable annual water charges based on yearly sanctioned and as communicated. In cash or in the form of a bank Guarantee issued by a scheduled / nationalized bank having it's main/branch office situated locally for the due observance and performance by the company of the terms and conditions of this Agreement; AND WHEREAS the company has accordingly prior to the execution of these presents deposited with the Government Rs. 27,50,002/- as security for the due observance and performance by the company of the terms and conditions herein contained; AND WHEREAS it has been agreed that the said amount will not carry any interest if deposited in cash.

NOW THIS AGREEMENT WITNESSTH AS FOLLOWS :

(a) In consideration of the company making payment to the Government as hereinafter specified and observing and performing the convenience and conditions herein contained Government do hereby grants to the company permission to draw following quota of water for the specified purpose.

For, Dalmia Cement (Bharat) Ltd.

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Authorised Signatory

Executive Engineer,
Chandrapur Irrigation Division
CHANDRAPUR.



महाराष्ट्र MAHARASHTRA

2022

BS 757959



29 MAY 2023

Sr. No.	Description/use	Quantity (Mcum per year)
1	Total sanctioned quota.	2.50 mm3
1.1	For Industries which use water as a raw material for preparation of cold drinks, mineral water etc.	---
1.2	For industries other than Sr. No. 1.1	2.50 mm3
1.3	For domestic use	---
1.4	For agriculture use (nursery/ gardening) within the Company's premises	---

and use the same for the purpose of the Company's said plant or project and for supply to residential colonies for a term of Five years commencing from the----- On the following terms and conditions.

For, Dalmia Cement (Bharat) Ltd.

Executive Engineer,
Chandrapur Irrigation Division
CHANDRAPUR.

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Authorised Signatory

दस्तावे प्रकार/अनुच्छेद क्रमांक
 दस्त नोंदणी करणार आहेत का ?
 नोंदणी होणार असल्यास
 दुय्यम निबंधक कार्यालयचे नांव
 मिळकतीचे वर्णन
 नोंददल रक्कम
 मुद्रांक विकत घेणाऱ्याचे नाव
 दुसऱ्या पक्षकाराचे नाव
 हस्ते असल्यास त्याचे नांव व पत्ता
 मुद्रांक हाताने मारला
 मुद्रांक विक्री किंवा अन्य अमुक
 मुद्रांक विकत घेणाऱ्याची मही
 बसली नसकिली असेलमुळ, स्टॅम्प विक्रीला, चंद्रपूर
 १ रु १००० रक्कम १२/०१/२०२३ मही

उद्धारनामा

डालमिया सिमेंट (भारत) लिमिटेड नांदा
 जे सुब्बारायडु अय्यागिरी प्लॉट ५ मुळ

५००/८

८९५०

२२/६/२०२३

Sm २२

(b) The Industrial water requirement as raw material and the Domestic water requirement of the company as demanded deemed to be **separate and independent for the sole purpose** and water charges assessment shall be **accordingly separate and Independent** for other clauses of this agreement.

(c) Within the limits of permitted quota the company is permitted to give its phase wise water utilization schedule as an annexure to this Agreement. This phased water utilization scheduled will be on yearly basis. For this purpose year will start from 1st day of July.

2) The permission hereby granted shall be subject to the provision of the Maharashtra Irrigation Act, 1976, the Bombay Canal Rules 1934, MWRRA Act, 2005 read with MWRRA (Amendments and Continuance) Act, 2011 of 22/04/2011 and subsequent revisions, if any, in force and any executive orders issued in this behalf by Government and any statutory amendment thereof from time to time and for the time being in force.

3) Nothing herein contained shall be deemed to imply and guarantee on the part of the Government as to the availability or otherwise of any specific quantity of water and Government shall not be responsible for the non-supply or in adequate supply of water on any account whatsoever.

However in case of inadequate or non-supply **due to shortage of water or reason beyond the control of the Department**, bill shall be charged as per actual quantity of water supplied during such period.

4) The company shall use the water drawn from the said Reservoir for purposes of the company's said Plant and for supply to the residential colonies constructed by the company within the area of the said Plant for providing housing to its employees and workers (hereinafter referred to as "the said residential Colonies"). The company shall not sale the water from the said reservoir to any other person, firm or company, corporation or other body. In the event of the company selling water



For, Dalmia Cement (Bharat) Ltd.

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Authorised Signatory

Executive Engineer,
 Chandrapur Irrigation Division,
 CHANDRAPUR.

drawn from the said river, then Government without prejudice to its right will forthwith revoke the license. Government shall be entitled to recover from the company the proceeds of any such sale made by the company.

As regards water supply to Penganga River Dalmia Cement (Bharat) Limited. Chandrapur Cement Works (formerly known as Murli Industries Ltd.) this clause of resale of water will not be applicable to the extent the water is supplied by them to the industrial units and residential colonies in their jurisdiction. But, for any purposes other than the above if -----Dalmia Cement (Bharat) Limited. Chandrapur Cement Works (formerly known as Murli Industries Ltd.) desires to supply the water then the prior permission of the Government in Irrigation Department is obligatory. Water supply made by -----Dalmia Cement (Bharat) Limited., Chandrapur Cement Works (formerly known as Murli Industries Ltd.) without prior permission will be charged at the maximum rates applicable for industrial water supply.

- 5) Government shall be entitled to utilize water of the said reservoir available after meeting the reasonable requirements of the company ; as to which matter the decision of the Government shall be final and binding on the company, for such purpose as Government deem fit.
- 6) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners; nor shall it in any way, prejudice Government's right to here after launch or implement in public interest any new schemes of its own at, on or in connection with present source of channel of water supply available to the company, subject however to the safe-guarding of its reasonable demand referred to in clause (5) above.
- 7) (a) For ascertaining the quantity of water drawn by the company Dalmia Cement (Bharat) Limited., Chandrapur Cement Works (formerly known as Murli Industries Ltd.) shall forthwith at **its own cost** and after obtaining prior approval in writing thereto of the Executive Engineer, install independent pipelines fitted with separate electronic water measuring devices for use of water for the said Independent intention (hereinafter referred to as "the said electronic measuring devices") at such places as is indicated by the Executive Engineer. All the pipeline layout from the said source shall be got approved from the Executive Engineer. No changes in the approved layout shall be made without the prior written approval from the Executive Engineer. In the event of the company failing to install and keep in proper working order the said electronic measuring devices for use of water for the said Plant and supply to the said residential colonies as aforesaid the company shall be liable to pay for the sanctioned water quota. During such period 150% water charges will be charged at the prevailing rates for the said plant. The said electronic measuring devices shall always be kept under the lock and seal of the Executive Engineer and the key of such lock shall at all times remain with the Executive Engineer. The company shall at all times, during the substance of this agreement at its own cost maintain the said electronic measuring devices in proper working order and condition.

For, Dalmia Cement (Bharat) Ltd.

Executive Engineer,
Chandrapur Irrigation Division,
CHANDRAPUR.

(b) Reading for the water so drawn by the company will be taken on the sold electronic measuring devices, on the Last day of each month/at agreed times, Jointly by the authorized representatives of the Executive Engineer and of the Dalmia Cement (Bharat) Limited. Chandrapur Cement Works (formerly known as Murli Industries Ltd.).

(c) If at any time in the opinion of the Executive Engineer the said electronic measuring devices are found defective, the same shall be tested for its accuracy and the cost of such testing shall be borne and paid by the company. If on such testing the said electronic measuring devices are found to be defective the company shall forthwith get the same repaired and set right at its own cost and in the event of company failing to do so within 30 (thirty) days thereafter the Executive Engineer may proceed to do so on account and at the cost of the company.

(d) In the event of the said electronic measuring devices going out of order and becoming defective the quantity of water drawn by the company during the period when the meter was defective and not working shall be ascertained in the following manner.

(I) If the said electronic measuring devices remain out of order for a period of less 30 days, then the quantity of water deemed to be drawn by the company during the said period, shall be calculated on proportionate basis on 90% of the yearly sanctioned quantity as communicated in clause 1 or average for the last six months whichever is higher.

(II) If the said electronic measuring devices remain out of order for a period exceeding 30 days then the quantity of water deemed to be drawn by the company during the said period shall be deemed to be 150% of the sanctioned quota based on the phased requirement for that period or the monthly maximum during the previous six months whichever is higher. This will be made applicable for the period during which the measuring devices remained out of order.

The aforesaid provisions will also apply when the quantity of water drawn by the company cannot be measured on account of removal of the said electronic measuring devices for repair or the same in the option of the Executive Engineer not working properly.

- 8) The Bill for the water drawn by the company during the previous calendar months shall be sent in duplicate/ triplicate by the Executive Engineer to the office of the company within 15 days after the end of the water consumption month. The company shall thereafter duly pay the same by a demand draft drawn in the name of the **Executive Engineer, Chandrapur Irrigation Division Chandrapur** for and on behalf of the government within a fortnight from the date of receipt of the bill and shall not allow the same to fall in arrears. If the company fails to pay amount within this stipulated time (15 days from the date of receipt of the bill i.e. before the end of the current month) extra charge not exceeding 12% per annum of the amount due will be charged. If the delay in payment of water charges exceeds six months, the Government reserves the right to terminate the water supply with a notice of 15 days in advance.

- 9) The cost of all works in connection with the arrangements for water supply including the cost of measuring devices and its installation and maintenance, shall be borne by the company.

For, Dalmia Cement (Bharat) Ltd.
CCW
Naranda
Authorised Signatory

Executive Engineer,
Chandrapur Irrigation Division
CHANDRAPUR

10) Subject to the provisions of clause (7) hereof, the company shall pay to the Government at the time and in the manner specified in clause (11) hereof water charges for the quantity of water drawn by the company from the said reservoir as measured by the said electronic measuring devices at the rates notified by Government time to time.

I. In case, actual water use happens to be less than 90% of the phase-wise planned quantity of water, the billing shall be done on the 90 % of the quantity of water specified in the Agreement, If the actual water use is between 90 % to 100% of the corresponding phase-wise water use: billing shall be made as per the standard rate

II. For water use more than 100% & less than 150% of sanctioned quota, water charges will be 1.50 times of AR and beyond 150% of sanctioned quota, water charges will be 3.0 times of AR

III. In addition to above, commitment charges at 5% of applicable charges, shall be payable on sanctioned quota less agreed phased quota of water.

IV. In addition to the payment of water charges referred to above the company shall also pay to the Government local funds cess at the rate of 20 paisa per every rupee of water charges.

11)(a) The company shall pay to the Executive Engineer, water rates and local fund cess either in advance every month on the basis of anticipated quantum of water to be drawn by it from the said source during the month or on monthly basis within fifteen (15) days from the date of receipt of the month demands by the company from the Executive Engineer. **On default of the company to pay the water rate or local cess as aforesaid vide clause 8 and 10, Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith as per clause no. 8.**

(b) In the case of disputes regarding quantity of water billed or rate at which the bill is prepared the Company/ firm/ individual water user shall first pay the complete amount of the bill and then claim for refund of any excess bill charged giving the reasons justification of wrong billing. However the decision of Superintending Engineer, Chandrapur Irrigation Circle Chandrapur, in this regard shall be final and binding on the Company.

12) Government hereby reserves to itself the right to revise from time to time the water rates and local fund cess and company shall pay the revised water rates and local fund cess as may be fixed by Government from time to time.

13) The company shall discharge the effluent only after treatment to desired standards of Maharashtra Pollution Control Board (MPCB). Company shall get its effluent examined from MPCB and submit the certificate of MPCB to Executive Engineer quarterly. The company will be charged at

For, Dalmia Cement (Bharat) Ltd.

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Authorised Signatory

Executive Engineer,
Chandrapur Irrigation Division,
CHANDRAPUR.

applicable rates only if it regularly submit the certificate of MPCB stating that effluent meets the MPCB standards.

If the company fails to submit MPCB certificate or effluent does not meet MPCB standards than 5% penal charges will be applicable for next 3 months. And at the end of three months water supply will be closed.

Government also reserves the right to call for list of water polluting companies. If Government finds that effluent of the company is not meeting MPCB standards, then Government will give three months notice to company to cure the default. During this cure period company will be charged at rates twice the applicable rates. And if company fails to cure the default the water supply will be stopped at the end of 3 months.

If an industry adopts Zero Liquid Discharge (ZLD) technology and draws only up to 25% of its allocation to cover pipeline loss, evaporation and process consumption, it will be charged only at 25%. Of the applicable rate for the water drawn. However, this concession will be applicable to those industries who reduce its annual sanctioned water demand up to minimum 75% or less. It will be mandatory to ascertain and certify this by the officer not below rank of Executive Engineer

- 14) The effluent disposal arrangement made by the company shall be got approved by the Company from the Maharashtra Pollution Control Board/Environmental Department of the Government prior to commencing the operation of pumping/drawing water from the source.
- 15) The company shall at all the times allow an officer of Water Resources Department of the Government or authorised in that behalf to inspect the said works as well as accounts and copies taken of entries from the records maintained by the company.
- 16) Any notice or other documents to be given to or served upon the company may be given or served on behalf of the Government by the **Executive Engineer, Chandrapur Irrigation Division Chandrapur** and any such notice or document shall be deemed to have been duly given to or served upon the company or sent by registered post to the registered company if it is delivered at the registered office of the company or sent by registered post to the registered address for the time being of the company.
- 17) The said sum of **Rs. 27,50,002/- (-) Rs. 26,26,560= Rs.1,23,442/-** deposited in the **Chequeno.160849 dtd.17/06/2023 issued by State bank of India** by the company with the **Executive Engineer, Chandrapur Irrigation Division Chandrapur** -to the government as aforesaid shall be held by the Government as security for the due observance and performance by the company of the covenants, terms and conditions herein contained. In case of default on the part of the company to perform and observe any of the said covenants and conditions it shall be lawful for the Government in his absolute discretion to forfeit the whole of the security deposit or any part thereof without prejudice nevertheless to any rights and remedies which the Government may be entitled to.



For, Dalmia Cement (Bharat) Ltd.

Authorized Signatory

Executive Engineer

may have against the company under these presents for such breach and the company shall forthwith pay up the amount so forfeited and shall always maintain the original amount of deposit throughout the period of this agreement. On the expiry of the terms of this agreement, the said security deposit of Rs.27,50,002/-, or such part thereof as shall not have been appropriated as aforesaid shall be refund to the company.

- 18) All amounts due to the Government by the company under this agreement shall be deemed to be arrears of land revenue and may without prejudice to any other rights and remedies of the Government be recovered from the company as arrears of land revenue.
- 19) On the expiry of the term of this agreement, Government may renew this agreement within 90 days for such further period and on such terms and conditions, as Government may at its absolute discretion deem fit.
- 20) The costs incurred in the execution of the Incidental charges for this agreement including stamp duty shall be borne and paid by company.
- 21) The agreement supersedes all the previous agreements entered into by the company with the Government in connection with the supply of water from Penganga River.
- 22) **IF THE COMPANY COMMITS A BREACH OF ANY OF THE TERMS AND CONDITION THEREOF GOVERNMENT SHALL BE ENTITLED TO CANCEL THIS PERMISSION AND DISCONTINUE THE SUPPLY OF WATER WITHOUT PAYMENT OF ANY COMPENSATION WHATSOEVER TO THE COMPANY.**
- 23) The Government hereby reserves to itself its right to change/ amend/ modify/ cancel/revise any of the terms and conditions, rules and regulations of water management and Maharashtra Irrigation Act. And rules laid under them which shall be applicable for this agreement.



For, Dalmia Cement (Bharat) Ltd.


Authorised Signatory


Executive Engineer.
Chandrapur Irrigation Division
CHANDRAPUR,

IN WITNESS WHEREOF THE Common Seal of the **Dalmia Cement (Bharat) Limited., Chandrapur Cement Works**(formerly known as Murli Industries Ltd.),**Village Naranda., Tehsil Korpana., Distt. Chandrapur -442916** has been hereof affixed **Subbaraidu Ayyagari (Plant Head)** AND the **Executive Engineer, Chandrapur Irrigation Division Chandrapur**, has for and on behalf of the Governor of Maharashtra hereto set his hand and affixed the seal of his Office the day and year first herein above written. **THE COMMON SEAL OF DALMIA CEMENT (BHARAT) LIMITED**(formerly known as Murli Industries Ltd.)

Was pursuant to a resolution
Of the Board of Directors of
The company dated the.....



Hereto affixed in the presence of.....for **Dalmia Cement (Bharat) Limited**

1. _____

2. _____

(Unit Head)

Two Direction of the company who in taken thereof have set their respective hands in the presence of.....

1. As (Arvind Thakur)

2. _____

SIGNED, SEALED AND DELIVERED by the **Executive Engineer, Chandrapur Irrigation Division** for and on behalf of the Governor of Maharashtra in the presence of...

1. _____

2. _____

Executive Engineer
(Chandrapur Irrigation Division)
Chandrapur

For, **Dalmia Cement (Bharat) Ltd.**

Authorised Signatory

MIL/ENV/MoEFCC/032021/01

Date : 23 March 2021

To

The Director, IA Division (Industry-1)
Ministry of Environment, Forest & Climate Change
Government of India, Indira Paryavaran Bhavan,
Jorbag Road, Aliganj, New Delhi – 110003

Subject: Acquisition of Murli Industries Limited ("MIL") pursuant to the approval of Resolution Plan by NCLT in favour of Dalmia Cement (Bharat) Limited ("DCBL").
Intimation Regarding Change of Management

Ref:

1. Environmental Clearance for 2.0 MTPA of Clinker Plant, 2.16 MTPA of OPC and 2.86 MTPA PPC and Captive Power Plant of 2 x 25 MW at village Naranda, District Chandrapur, Maharashtra vide F.No. J-11011/319/2006-IA II(I) Dated 28th June 2007
2. Certificate of Incorporation of MIL dated 27 Nov.2006 (Annex.1)
3. NOC from the Managing Committee of Murli Industries Limited (MIL) dtd 10th September 2020, in favour of Dalmia Cement (Bharat) Limited (Annex.2)
4. National Company Law Tribunal Mumbai Bench order dated 22.07.2019 (Annex.3)
5. National Company Law Appellate Tribunal vide its order dated January 24, 2020 (Annex.4)

Dear Sir,

With reference to the above reference and subject. This is to inform you that, Murli Industries Limited (MIL) was admitted for Corporate Insolvency Resolution process in accordance with Insolvency and Bankruptcy Code, 2016 pursuant to the order dated April 05, 2017 of the National Company Law Tribunal, Mumbai Bench. The Resolution Plan of Dalmia Cement (Bharat) Limited (DCBL) has been approved by the Committee of Creditors of MIL on December 20, 2017, the National Company Law Tribunal, Mumbai Bench vide its order(s) dated July 03, 2019, July 22, 2019 and July 25, 2019 and by the National Company Law Appellate Tribunal vide its order dated January 24, 2020.

We wish to inform you that pursuant to implementation of the Resolution Plan, MIL has become a subsidiary of DCBL from **September 10, 2020**. Further, we also like to inform that the company will continue to operate under the name MIL, and certificate of Incorporation of MIL dated 27 Nov.2006 (Annex.1) is also enclosed for ready reference.

MURLI INDUSTRIES LIMITED

Registered Office: Block No. 802, A Wing, 8th Floor, Shreeram Shyam Towers, Kingsway, Civil Lines, Nagpur 440 001, India

CIN: U01110MH1991PLC064271

A Dalmia Bharat Group Company, www.dalmiabharat.com

This is submitted for your kind information and further directions, if any in this regard.

Thanking you,

For Murli Industries Limited



(Vimlesh Marghade)

Authorized Signatory

Email: Marghade.vimlesh@dalmiacement.com

Contact No. 9535301969

End: As above

Copy to:

1. The Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, New Delhi – 110033.
2. The Chairman, Maharashtra Pollution Control Board, Kalptaru Point, 3rd & 4th Floor, Sion Matunga Scheme, Road No8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (East), Mumbai-400022
3. Regional officer, Ministry of Environment, Forest and Climate Change, Regional Office. (WCZ), Ground Floor East Wing, New Secretariat Building, Civil Lines, Nagpur-440001

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ANNEXURE-XVII
CSR EXPENDITURES

SN	CSR Activities	CSR expenditures (in Rs Lakhs)				
		2020-21	2021-22	2022-23	2023-24	2024-25
1	Education	0	0.85	2.58	2.4	3.46
2	Health	0.29	9.61	0.53	0	0.186
3	Agriculture & Animal husbandry	0	2.5	9.3	18.35	16.6
4	Women empowerment & Vocational Trainings	0.01	0.04	1.57	0	9.5
5	Infrastructure Development	0	9.76	16.66	6.27	6.43
6	Event & day celebration	0.01	0.1	0.3	0.2	0.08
7	Plantation & Rain Water Harvesting	0	0	8.5	9.1	1.92
		0.3	22.86	39.44	36.32	38.17
Grand Total		137.09				



CSR

FY-2024-25

Location-Chandrapur



SEED TREATMENT IN COTTON & SOYABEAN

- ✓ Protects crops from seedborne diseases, encouraging higher germination rates and healthy plant growth.
- ✓ Reduces reliance on chemical fertilizers and spraying, lowering overall costs.
- ✓ Increases yield by 7-10% per hectare.
- ✓ Benefitted over 800 farmers
- ✓ Rhizobium, Azotobacter, Trichoderma provided to farmers for seed treatment (1 acre)



CONVERGENCE: GOAT REARING TRAINING BY R-SETI

- ✓ Conducted Goat Rearing Training in Naranda village for 35 participants.
- ✓ Following the training, an exam was held where all participants successfully passed the exam.
- ✓ Organized an exposure visit for trainees to a nearby goat unit in Chandrapur.
- ✓ Awarded training completion and exam certificates to the participants.
- ✓ R-SETI secured assurances to support participants in obtaining bank loans for their goat rearing businesses.



CONVERGENCE: R-SETI-SEED DRILL MACHINE DISTRIBUTION

- ✓ 5 farmers were benefited from the seed drill program.
Suitable for sowing all types of seeds.
- ✓ Reduces sowing costs and minimizes labor requirements.
- ✓ Optimizes efficiency by completing tasks quickly and thoroughly.
- ✓ Ensures consistent plant spacing within and between rows.
- ✓ It saves farmers Rs.3500 per annum



EDP-MICROENTERPRISES TRAINING

- ✓ Empowered SHG members by providing training on diverse business opportunities.
- ✓ Utilized audio-visual aids to showcase successful microenterprises in various fields, including agarbatti making cloth and vegetable sales, vermicelli production and packaging, goat rearing, and poultry farming.
- ✓ Motivated 100 SHG members to pursue goat rearing and poultry businesses.
- ✓ Program has benefitted a total of 460 individuals



TRAINING ON SHG BANK LINKAGE

- ✓ Equipped SHG members with loan application skills for their business ventures.
 - ✓ Training covered essential practices for loan eligibility, including consistent SHG meetings, on-time internal loan repayments, recordkeeping, understanding loan purposes and proper utilization, and efficient documentation processes.
 - ✓ Empowered a total of 488 individuals through the program.
- Convergence: Seed drill machine. T



DASHPARNI ARK PRODUCTION AND SALE: IPM

- ✓ Equipped SHG members with loan application skills for their business ventures.
 - ✓ Training covered essential practices for loan eligibility, including consistent SHG meetings, on-time internal loan repayments, recordkeeping, understanding loan purposes and proper utilization, and efficient documentation processes.
 - ✓ Empowered a total of 488 individuals through the program.
- Convergence: Seed drill machine. T



POWER SPRAY PUMP DISTRIBUTION TO WOMEN FARMERS GROUP:

- ✓ Power spray pumps with a 40-liter capacity were distributed to women farmers to support largescale agricultural farming.
- ✓ A group of 10 women farmers benefited from this initiative, with expected to earn an additional annual income of ₹18,000.



- ✓ Drumstick seeds were distributed to SHG members for kitchen gardens and bund plantation, offering high nutritional value and strong market demand.
- ✓ A total of 190 beneficiaries received these seeds, with each expected to earn an additional annual income of Rs.5900



TARPAULIN- AGRICULTURAL POST HARVEST MANAGEMENT ACTIVITY

- ✓ 400 Farmers benefitted through this initiative
- ✓ Saves 1-2 qtl. crop which cost from Rs.3500-12000 from unpredictable rain
- ✓ Useful for crops : Cotton, Soyabean, B.gram, Tur, Chilli etc.
- ✓ Distribution done by HR-Head Shri.Sudhir Ranjan Mohanty



BATTERY OPERATED SPRAY PUMP

- Total 684 farmers benefitted through this initiative.
- It helps farmers for on time pest and disease control.
- Due to this farmers can saves the crop yield from losses



- 500 Farmers got benefitted through this initiative.
- Effective pest control on crop and saves spraying cost of farmers
- Crops: Cotton, Soyabean, Tur, B.gram



ME: HANDCART SUPPORT FOR VEGETABLE BUSINESS:

- ✓ A vegetable handcart was provided to Mrs. Kiran Gurnule from Naranda village, with the inauguration ceremony attended by members of the Sakhiya Ladies Club and local leaders.
- ✓ The beneficiary is expected to earn an annual income of ₹1,00,000 from this initiative.



ME-CASE STUDY: PANI PURI

Empowering Livelihoods through Entrepreneur: Dalmia Bharat Foundation supported Mrs. Vandana Vangane from Naranda village by providing her with a handcart and a free space to start her pani-puri business. As a landless individual, Mrs. Vangane previously relied on wages from agricultural labor for her income. Following our intervention, she now earns between ₹300 and ₹400 daily. This has resulted in an additional annual income of ₹106,000, significantly improving her financial situation and livelihood



SHG ASSOCIATION (NO-02): LIVELIHOOD DEVELOPMENT FUND SUPPORT: 8 lakh No. of beneficiary : 100 SHG women members

❖ The project aims to provide financial support to core village women SHG members through SHG Association for initiating new enterprise activities scale up of existing enterprises, purchasing new livestock, farming and any kind of income generation activities. The proposal focuses on creating additional income generation support to the rural women members through strong institutions. Also, it will strengthen the association and ensure the system and process in place

❑ The objectives of the initiative are

- To provide financial support to the marginalized women SHG members for income generation through institutional mode.
- To integrate the selected SHGs under one umbrella to increase their Bargaining power
- To Ensure annual additional income to the beneficiaries
- To create a strong SHG association for its sustainability
- To create women empowerment through livelihood activity



FOUNDERS DAY CELEBRATION: SEWING MACHINE DISTRIBUTION

- ✓ The celebrations were a tribute to the company's rich legacy and its ongoing commitment to social empowerment and sustainable development. At a special event held at the Dalmia Cement – Chandrapur plant, 210 sewing machines were distributed to women from the local community, promoting self-reliance and financial independence.
- ✓ Each year, Dalmia Bharat observes Founders' Day on December 11th, marking the birth anniversary of its visionary founder, the late Shri Jaidayal ji Dalmia. This day serves as both a tribute to his remarkable contributions and an opportunity to reaffirm the company's dedication to his core values, which continue to shape its path forward.
- ✓ No. of beneficiary : 210



- Supported beneficiaries to purchase 120 days old pregnant goat
- Support provided Rs. 4000 per beneficiary through DBT
- Beneficiaries get additional income through goat rearing activity
- No. of beneficiary: 130



- 2 Farmers got benefitted through this initiative.
- 75% subsidy
- Innovative project in our core village
- Saves around 8-10 cylinder cost annually.



CONVERGENCE

Sr.No	Scheme Name	M	F	Total
1	Goat Rearing Training by RSETI	2	63	65
2	Farmers workshop on Seed Treatment for cotton and soybean crop	40	100	140
3	Vermicelli machine purchased under Pradhan Mantri Formalisation of Micro Food Processing Enterprises scheme Livelihood	0	10	10
4	Seed drill Machine (Hand operated) distribution on 50% subsidy from govt. agency	5	0	5
5	Pheromone & sticky trap distribution	31	59	90
6	Integrated Pest Management training by block Agril. dept Livelihood	181	64	245
7	Sanitary pad distribution an health initiative by PHC Naranda	0	60	60
8	Ayushyman Bharat	195	179	374
9	SHG bank linkage	0	767	767
10	Goat rearing training by R-SETI	2	68	60
11	Kharip season pre-planning workshop in convergence with Agri.dept/Mahabeej	145	30	175
Total		574	2002	2576

SOCIAL INFRASTRUCTURE

ROAD REPAIRING WORK AT WANOJA TO PUMPHOUSE

- ✓ Responded to villagers' requests by repairing the road from Wanoja bus stand to the pump house.
- ✓ The project, completed with the assistance of the Mines Department, improves accessibility for farmers and their agricultural activities.
- ✓ 74 farmers were benefitted



PIPELINE FOR DRAINAGE AT VILLAGE SANGODA

- ✓ Collaborated with the Mines Department to address drainage issues in Sangoda village.
- ✓ The joint efforts of DBF and the Mines team successfully resolved the drainage problem, eliminating the spread of dirty water and unpleasant odors around homes.
- ✓ Improved living conditions for 215 households.



VOTER AWARENESS CAMPAIGN AND BOOTH DECORATION:

- ✓ As instructed by the Honorable District Collector, we supported the Lok Sabha 1st phase election in Gadchandur by:
- ✓ • Conducting a voter awareness campaign.
- ✓ • Decorating two polling booths, which included displaying posters, banners with slogans, setting up selfie points, balloon decorations, and providing drinking water and breakfast for government staff.
- ✓ Appreciation received from the Honorable District Collector



SCHOOL UNIFORM DISTRIBUTION TO ZP SCHOOL :VANOJA

- ✓ On Independence Day, school uniforms were distributed to 45 students from 1st to 4th grade at Z.P. School Vanoja, supporting their educational needs.

GREEN BOARD DISTRIBUTION TO A.K.V & JR.COLLEGE NARANDA

- ✓ In response to renovation efforts, six green boards were provided to Adarsh Kisan Vidyalaya & Jr. College in Naranda, benefiting 540 students by enhancing their classroom environment.



HEALTH CHECKUP CAMP

Name of Village: 1.Antargaon 2. Sangoda

No. of Villages covered: 2

No. of Beneficiary to be cover : 300

DBF Chandrapur has organized free health checkup camp at Antargaon and Sangoda village on **dtd. 21-10-2024 & 22-10-2024 respt. (Time: 9.30 am – 4.00 pm)** Heath check-up consist of **BP, Sugar, diagnosis of oral cancer, breast cancer, cervical cancer and its free treatment.**

Dr.Ashish Barabde-Program Manager, Dr.Salunkhe (Dentist) and a team of total 5 doctors from Tata Cancer Hospital Chandrapur , Community health officer Ms. Puja Dandekar from Antargaon, PHC doctors and staff, Taluka Health officer Dr.Swapnil Tembhe, Dr. Mohan Chaudhary from plant OHC, Asha workers will attend this camp in presence of village sarpanch, GP members, Sakhiya ladies club members of DCBL from Chandrapur, and CSR team. Total 300 will get benefitted through this health initiative.



- ✓ Installed at Narayandas Mavani Orphanage and Goshala, Chunala
- ✓ Inauguration done by Unit Head Mr. Subbaraidu Ayyagari
- ✓ Saves monthly electricity of Rs.6000 per month
- ✓ Benefitted to 42 students
- ✓ Benefitted to 350 cows



- ✓ Welcome gate constructed at Antargaon village entrance which comes in our core village.
- ✓ Got identity to village
- ✓ Benefitted to 520 HH
- ✓ Beautification



- ✓ Cyber security by NIIT
- ✓ Integrated pest management: yellow sticky trap, Pheromone trap etc.
- ✓ Seed Treatment in cotton & Soyabean-Kharip
- ✓ Seed treatment in B.Gram : Rabi
- ✓ Microenterprises training
- ✓ Basic computer training
- ✓ SHG-Bank linkage training
- ✓ Income record updation training



✓ No. of beneficiary covered through different trainings: 4565

- ❖ Total HH Alloted : 2738
- ❖ HH Mapped : 2617
- ❖ HH Selected for Intervention: 2480
- ❖ Total HH covered: 2417
- ❖ Total Intervention Planned: 7277
- ❖ HH with additional Income: 7166

Location Demographic Profile

- Villages : 12
- Households: 2738
- Population: 11253

❑ HH Distribution in different income slabs

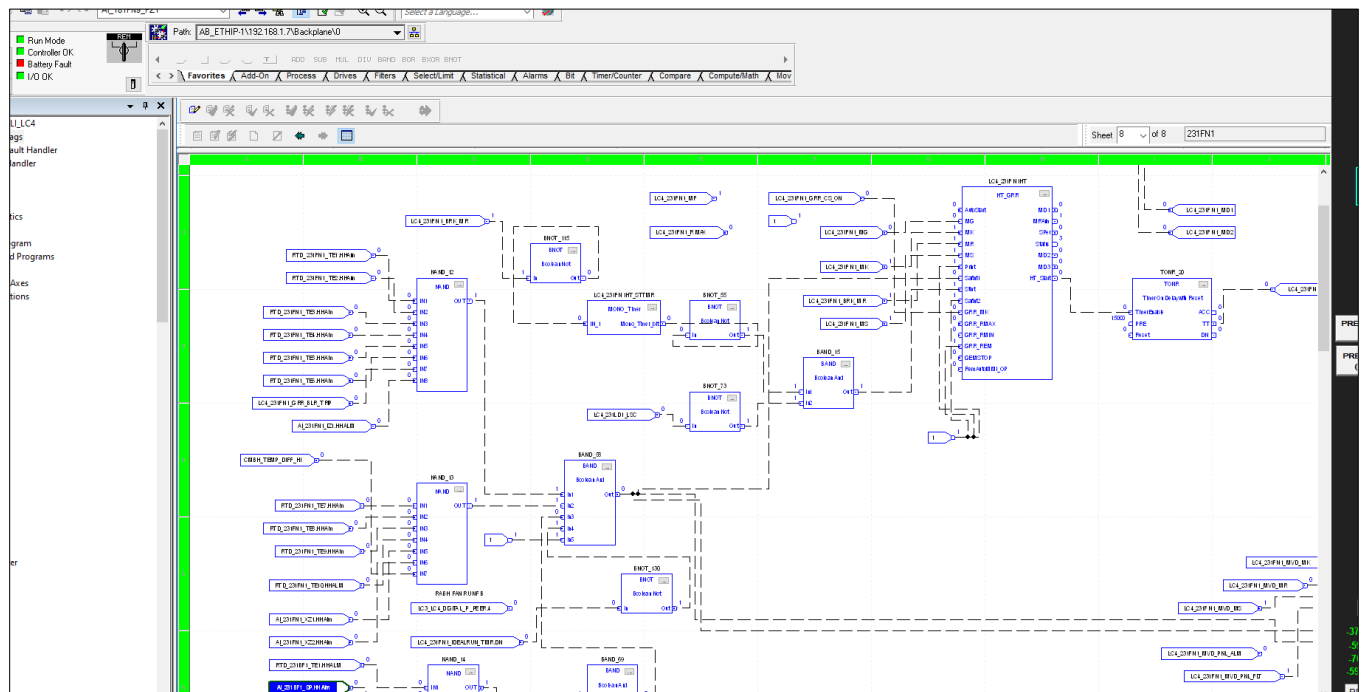
<25 k	25k-50k	50k-75k	75k-1 L	> 1 L
413	507	424	175	891

Thank You

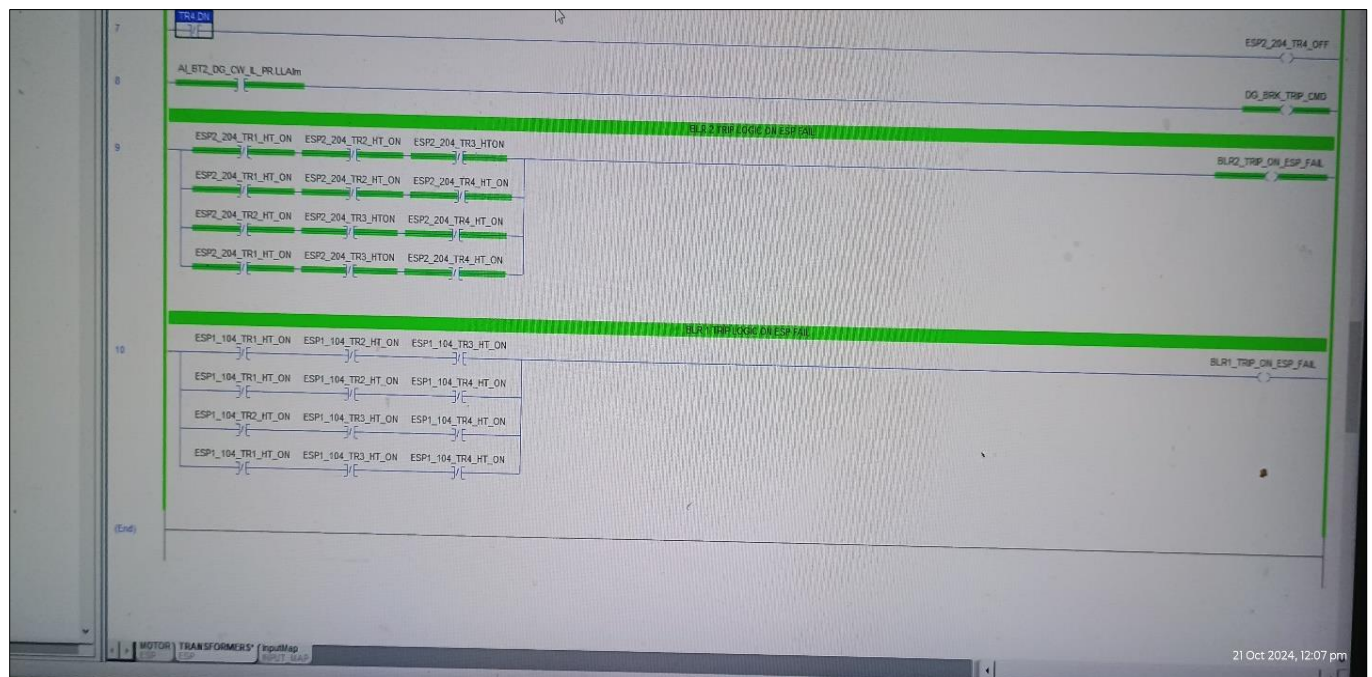
INTERLOCK FACILITY IN APC EQUIPMENT FAILURE

[illegible]

3. Coal Mill Bag House Interlock with Coal Mill Fan



4. Captive Power Plant Interlock with ESP



ALARM SUMMARY						
(No Filter)						
!	🔊	Event Time	In Alarm Time	Acknowledge Time	Out of Alarm Time	Server Name
						Message
🔴	🔊	21-10-2024 11:52:16.3498747	21-10-2024 11:46:28.2076551	21-10-2024 11:52:16.3498747		Alarms
	🔊	21-10-2024 11:52:16.3488795	21-10-2024 11:36:40.4311750	21-10-2024 11:52:16.3488795		BLR2 TRIP ON ESP FAIL
🔴	🔊	21-10-2024 11:52:16.3488795	21-10-2024 11:31:08.6437075	21-10-2024 11:52:16.3488795		Alarms
	🔊	21-10-2024 11:52:16.3488795	21-10-2024 11:23:25.2146441	21-10-2024 11:52:16.3488795		BOP FN1 VFD SAFETY INTERLOCK UNHEALTHY
🔴	🔊	21-10-2024 11:52:16.3488747	21-10-2024 10:48:03.3694201	21-10-2024 11:52:16.3488747		Alarms
	🔊	21-10-2024 11:52:16.3488795	21-10-2024 09:54:44.4768411	21-10-2024 11:52:16.3488795		B1T1 DRAG CHAIN 3 SAFETY INTERLOCK UNHEALTHY
🔴	🔊	21-10-2024 09:30:01.1424127	21-10-2024 09:30:01.1424127	21-10-2024 09:30:01.1424127		Alarms
	🔊	20-10-2024 17:39:26.9147461	20-10-2024 17:01:30.8992650	20-10-2024 17:39:26.9147461		BOP FN2 VFD OFF/TRIP FROM INTERLOCK
🔴	🔊	20-10-2024 17:39:26.9137913	20-10-2024 17:01:25.6844429	20-10-2024 17:39:26.9137913		Alarms
	🔊	20-10-2024 17:39:26.9147461	20-10-2024 16:58:52.6798722	20-10-2024 17:39:26.9147461		BT1 TG1 INLET STEAM PRESSURE HIGH ALARM
🔴	🔊	20-10-2024 16:41:02.9745315	20-10-2024 16:17:03.5891687	20-10-2024 16:41:02.9745315		Alarms
	🔊	20-10-2024 16:13:33.4685468	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4685468		CHP CR1 OVERLOAD
🔴	🔊	20-10-2024 16:13:33.4685468	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4685468		Alarms
	🔊	20-10-2024 16:13:33.4685468	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4685468		B1T1 DRAG CHAIN 4 SAFETY INTERLOCK UNHEALTHY
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		BOP CWP1 VFD OFF FROM DCS
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		BOP CWP1 VFD OFF FROM DCS
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		BT2 DG CW IL PR LOW LOW ALARM
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B1T1 A/BT1 102 AE301 OZZ O2 HIGH ALARM
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAINS VFD FAULT
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAINS VFD FAULT
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAIN4 TRIP FROM VFD PANEL
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAIN4 VFD FAULT
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAINS TRIP FROM VFD PANEL
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAIN1 TRIP FROM VFD PANEL
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAIN1 VFD FAULT
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAIN2 TRIP FROM VFD PANEL
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAIN2 VFD FAULT
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 DRAG CHAIN3 TRIP FROM VFD PANEL
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		BT1 EXHAUST STEAM TEMPERATURE LOW ALARM
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 CONTROL OIL PR LOW
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		BT2 210 CL PT CONTROL OIL PRESSURE LOW LOW ALARM
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		BT2 CONTROL OIL PRESSURE LOW ALARM
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 PA FAN SAFETY INTERLOCK UNHEALTHY
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 PA FAN VFD OFF/TRIP IN INTERLOCK
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 FD FAN SAFETY INTERLOCK UNHEALTHY
🔴	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		Alarms
	🔊	20-10-2024 16:13:33.4675529	20-10-2024 15:39:42.4422364	20-10-2024 16:13:33.4675529		B2T2 FD FAN VFD OFF/TRIP IN INTERLOCK

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2711D/09/18

Dalmia Cement (Bharat) Ltd.

(Formerly Known as Murli Industries Ltd). Chandrapur Cement Works ,Village-
Naranda,Taluka-Korpana,Dist.-Chandrapur

Reporting Date : 23/11/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2711D/09/18
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W. of Highway Gate
Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Date: 12/11/2024
Sample Receipt Date: 13/11/2024
Analysis Start Date: 14/11/2024
Analysis End Date: 22/11/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Bi Carbonate as CaHco3	255	mg/L	APHA 23rd Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	0.05
15	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.5	1.0
16	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
17	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
18	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
19	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
20	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
21	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
22	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
23	Nitrate	0.73	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Sachi
Analyzed By
Sachi Patel



End of Report

Manish
Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2711D/09/19

Reporting Date : 23/11/2024

Dalmia Cement (Bharat) Ltd.

(Formerly Known as Murli Industries Ltd). Chandrapur Cement Works ,Village-
Naranda,Taluka-Korpana,Dist.-Chandrapur



SAMPLE DETAILS

Lab ID: Lab/PN/2711D/09/19
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W. Hutment Area
Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Date: 12/11/2024
Sample Receipt Date: 13/11/2024
Analysis Start Date: 14/11/2024
Analysis End Date: 22/11/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Bi Carbonate as CaHco3	265	mg/L	APHA 23rd Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	0.05
15	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.5	1.0
16	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
17	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
18	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
19	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
20	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
21	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
22	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
23	Nitrate	0.63	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Sachi
Analyzed By
Sachi Patel



Manish
Authorized Signatory
Manish Kumawat

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3790D/09/18

Reporting Date : 24/02/2025

Dalmia Cement (Bharat) Ltd.

(Formerly Known as Murl Industries Ltd). Chandrapur Cement Works ,Village-
Naranda, Taluka-Korpana, Dist.-Chandrapur



SAMPLE DETAILS

Lab ID: Lab/PN/3790D/09/18
Sample Drawn By: Maulik Prajapati
Sample Type: Ground Water
Sample Description: Near Hutment Area
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 13/02/2025
Sample Receipt Date: 15/02/2025
Analysis Start Date: 17/02/2025
Analysis End Date: 22/02/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	169.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 °C for 3 days	BQL (QL=2)	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	127.96	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	986.9	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.63	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	34.84	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	556.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	208.00	mg/L	APHA 24th Edn 2340 C	200	600
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS

AL & PL As Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Reviewed & Authorized by
Tantan Kumar



Reviewed & Authorized by
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3790D/09/18

Reporting Date : 24/02/2025

Dalmia Cement (Bharat) Ltd.

(Formerly Known as Murli Industries Ltd). Chandrapur Cement Works ,Village-
Naranda,Taluka-Korpana,Dist.-Chandrapur



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/3790D/09/18
Sample Drawn By: Maulik Prajapati
Sample Type: Ground Water
Sample Description: Near Hutment Area
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 13/02/2025
Sample Receipt Date: 15/02/2025
Analysis Start Date: 17/02/2025
Analysis End Date: 22/02/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	BiCarbonates	169.0	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	0.55	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
23	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.5	2.4

AL & PL As Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Reviewed & Authorized by
Tantan Kumar



--- End of Report ---

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3790D/09/19

Reporting Date : 24/02/2025

Dalmia Cement (Bharat) Ltd.

(Formerly Known as Murli Industries Ltd). Chandrapur Cement Works ,Village-
Naranda,Taluka-Korpana,Dist.-Chandrapur



SAMPLE DETAILS

Lab ID:	Lab/PN/3790D/09/19	Sampling Date:	13/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	15/02/2025
Sample Type:	Ground Water	Analysis Start Date:	17/02/2025
Sample Description:	Near Highway Gate- borewell	Analysis End Date:	22/02/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	202.00	mg/L	APHA 24th Edn 2320 B	200	600
2	BOD at 27 oC for 3 days	2.70	mg/L	IS 3025-Part 44	NS	NS
3	Chemical Oxygen Demand (COD)	16.00	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	111.96	mg/L	IS 3025- Part 32	250	1000
5	Conductivity	953.2	uS/cm	IS 3025- Part 14	NS	NS
6	Oil and Grease	BQL (QL=1)	mg/L	IS 3025- Part 39	NS	NS
7	pH at 25 °C	7.51	-	IS 3025- Part 11	6.5-8.5	No relaxation
8	Sulphate	65.14	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
9	Total Dissolved Solids (TDS)	495.00	mg/L	APHA 24th Edn 2540 C	500	2000
10	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
11	Total Hardness as CaCO ₃	253.00	mg/L	APHA 24th Edn 2340 C	200	600
12	Carbonates	BQL (QL=2)	mg/L	APHA 24th Edn 2320 B	NS	NS

AL & PL As Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3790D/09/19

Reporting Date : 24/02/2025

Dalmia Cement (Bharat) Ltd.

(Formerly Known as Murli Industries Ltd). Chandrapur Cement Works ,Village-
Naranda,Taluka-Korpana,Dist.-Chandrapur



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/3790D/09/19
Sample Drawn By: Maulik Prajapati
Sample Type: Ground Water
Sample Description: Near Highway Gate- borewell
Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Date: 13/02/2025
Sample Receipt Date: 15/02/2025
Analysis Start Date: 17/02/2025
Analysis End Date: 22/02/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	BiCarbonates	202	mg/L	APHA 24th Edn 2320 B	NS	NS
14	Arsenic	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
15	Cadmium	BQL (QL=0.002)	mg/L	GGMPL/SOP/W & WW/46	0.003	No relaxation
16	Cobalt	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	NS	NS
17	Copper	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	0.05	1.5
18	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
19	Lead	BQL (QL=0.005)	mg/L	GGMPL/SOP/W & WW/46	0.01	No relaxation
20	Nickel	BQL (QL=0.01)	mg/L	GGMPL/SOP/W & WW/46	0.02	No relaxation
21	Zinc	BQL (QL=0.02)	mg/L	GGMPL/SOP/W & WW/46	5	15
22	Nitrate	0.65	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
23	Boron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.5	2.4

AL & PL As Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Reviewed & Authorized by
Tantan Kumar



--- End of Report ---

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Manish Kumawat

Page No : 2/2

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ISSUED TO:

M/S. DALMIA CEMENT (BHARAT) LIMITED
(UNIT; CHANDRAPUR CEMENT WORKS)
P.O: NARANDA, KORPANA ROAD
CHANDRAPUR-442916, MAHARASHTRA, INDIA.

Report Number : VLL/VLS/24/00021/001
Issued Date : 2025.04.12
P.O. Number : 4813006081 / 300
P.O. Date : 19.03.2025

Page 01 of 03

Sample Particulars : Stack connected to RABH kiln
Co Processing With : ETP Sludge, Paint Sludge, Mixed Haz Waste and Liquid Haz Waste

Sampling Date : 2025.03.27 Sample Registration Date : 2025.04.01
Analysis Starting Date : 2025.04.01 Analysis Completion Date : 2025.04.12
Test Required : PM, SO₂, NO_x, HCl, HF, CO, TOC and CN.
Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr. No.	Parameters	UoM	Method of Testing	Limits as per MoE, F& CC Notification GSR 497 (E)	Results
1	Diameter of stack	m	-	-	5.0
2	Flue gas Temperature	°C	-	-	80
3	Oxygen as O ₂	%	Flue Gas Analyzer	-	10.9
4	Carbon Monoxide as CO	mg/Nm ³	Flue Gas Analyzer	--	672
5	Velocity	m/sec	USEPA method-2	-	6.07
6	Volumetric flow rate	Nm ³ /Sec		-	100.6
7	Particulate Matter	mg/Nm ³	USEPA method-5	<30	16.0
8	Sulphur Dioxide as SO ₂	mg/Nm ³	USEPA method -06	< 700	<3.4
9	Oxides of Nitrogen as NO ₂	mg/Nm ³	USEPA method -07	< 600	432
10	Hydrogen Chloride as HCl	mg/Nm ³	USEPA method -26	<10	2.5
11	Hydrogen Fluoride as HF	mg/Nm ³		<1	0.47
12	Total Organic Compounds as TOC	µg/nm ³	USEPA method -40 & MM5(10)	<10	3.2
13	Cyanide as CN ⁻	mg/Nm ³	CTM-27	--	< 0.001

All the Values are represented at 10% O₂

Name and Designation of Authorized Signatory


Dr. Subbareddy Mallampati
Manager-Environment

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
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ISSUED TO:

M/S. DALMIA CEMENT (BHARAT) LIMITED
(UNIT: CHANDRAPUR CEMENT WORKS)
P.O: NARANDA, KORPANA ROAD
CHANDRAPUR-442916, MAHARASHTRA, INDIA.

Report Number : VLL/VLS/24/00021/001
Issued Date : 2025.04.12
P.O. Number : 4813006081 / 300
P.O. Date : 19.03.2025

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Sample Particulars : Stack connected to RABH kiln

Co Processing With : ETP Sludge, Paint Sludge, Mixed Haz Waste and Liquid Haz Waste

Sampling Date : 2025.03.27 Sample Registration Date : 2025.04.01
Analysis Starting Date : 2025.04.01 Analysis Completion Date : 2025.04.12
Test Required : Hg & its compounds, Cd+ Tl & its Compounds, Cr+Mn+As+ Sb+Pb+Co+Cu+Ni+V.
Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr.NO	Parameters	UoM	Method of Testing	Limits as per MoE, F& CC Notification GSR 497 (E)	Results
1	Mercury as Hg + their Compound	mg/Nm ³	USEPA method -29	<0.05	<0.001
2	Cadmium + Thallium (Cd + Tl) + their Compound			<0.05	<0.001
3	Chromium as Cr + their Compound			--	0.014
	Manganese as Mn + their Compound				0.036
	Arsenic as As + their Compound				0.021
	Antimony as Sb + their Compound				0.016
	Lead as Pb + their Compound				0.014
	Cobalt as Co + their Compound				0.022
	Copper as Cu + their Compound				0.019
	Nickel as Ni + their Compound				0.014
	Vanadium as V + their Compound				0.024
	Total Metals: Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds			<0.5	0.189

All the values are represented at 10% O₂

Name and Designation of Authorized Signatory


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Driven by Quality. Inspired by Science.

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Sample Particulars	:	Stack connected to RABH kiln			
Co Processing With	:	ETP Sludge, Paint Sludge, Mixed Haz Waste and Liquid Haz Waste			
Sampling Date	:	2025.03.27	Sample Registration Date	:	2025.04.01
Analysis Starting Date	:	2025.04.01	Analysis Completion Date	:	2025.04.12
Test Required	:	PCDD& PCDF			
Sample Collected by Vimta Labs Ltd					

TEST REPORT

Sr.No.	Parameters	UoM	Limits as per MoE,F& CC Notification GSR 497 (E)	Results
1	Diameter of the Stack	m	-	5.0
2	Temperature	°C	-	80
3	Velocity	m/sec	-	6.07
4	Volumetric flow rate	Nm³/Sec	-	100.6
DIOXIN AND FURANS				
5	2378-TCDD	ng/Nm³, TEQ	<0.1	0.0001
6	12378-PeCDD	ng/Nm³, TEQ		0.0007
7	123478-HxCDD	ng/Nm³, TEQ		0.0001
8	123678-HxCDD	ng/Nm³, TEQ		0.0007
9	123789-HxCDD	ng/Nm³, TEQ		0.0007
10	1234678-HpCDD	ng/Nm³, TEQ		0.0001
11	OCDD	ng/Nm³, TEQ		0.0000
12	2378-TCDF	ng/Nm³, TEQ		0.0001
13	12378-PeCDF	ng/Nm³, TEQ		0.0002
14	23478-PeCDF	ng/Nm³, TEQ		0.0100
15	123478-HxCDF	ng/Nm³, TEQ		0.0003
16	123678-HxCDF	ng/Nm³, TEQ		0.0007
17	234678-HxCDF	ng/Nm³, TEQ		0.0033
18	123789-HxCDF	ng/Nm³, TEQ		0.0067
19	1234678-HpCDF	ng/Nm³, TEQ		0.0001
20	1234789-HpCDF	ng/Nm³, TEQ		0.0000
21	OCDF	ng/Nm³, TEQ		0.0000
Total Dioxin & Furans: ng/Nm³, TEQ at 10% O₂ Correction				0.0237

Method of Testing: As per USEPA 23 A & 8290.

Name and Designation of Authorized Signatory

Dr. Subbareddy Mallampati
Manager-Environment