

M/s Deccan Cements Limited,
Mahankaligudem Village, Palakeedu Mandal, Suryapet District, Telangana-508218.
EC Identification No. - EC22A009TG150254 File No. - J-11011/572/2007-IA II (I)
Date of Issue EC - 06/07/2022

Status of the Conditions as on 31th March'2024

DECCAN CEMENTS LIMITED



WORKS : BHAVANIPURAM,
JANPAHAD (Post.), PIN : 508 218
PALAKAVEEDU (Mandal),
SURYAPET Dist. (T.S)
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DCL /MOEFRO/EC/2024/PQC/ENV/GI_N

10.05.2024

To

Dy. Director General Forest (Central),
IRO-Hyderabad
Ministry of Environment, Forest & Climate Change
1st& 2nd Floor, HEPC Building, No-34,
Catherdral Road, Nungambakkam,
Chennai-600034
Tel No 044-28222325, roefccc@gmail.com

Sub: Submission Status of Compliance for the period "October-2023 to March'2024"
Ref: MoEF No. J-11011/572/2007-IA II (I) Dated 06.07.2022.

Dear Sir,

We are here with enclosing the Status of compliance to Environmental Clearance accorded by ministry of Environment and Forest Climate Change to Deccan Cements Limited, vide MoEF No.J-11011/572/2007-IA II(I) Dated 06.07.2022 as per the General conditions in "B" vide No. xiii& XV" for the integrated Cement Plant and CPP along with enclosures Same shall be uploaded in the Deccan Cements web site and in PARIVESH Portal.

We will be pleased furnished any other information as desired by you.

Thanking you,

Your's faithfully
For M/s Deccan Cements Limited

Authorized Signatory

cc to :1. HO, TSPCB,
2. ZO Bangalore



REGD. OFFICE : 6-3-666/B, "Deccan Chambers", Somajiguda, Hyderabad - 500 082.
Phone : +91 (40) 23310168, 23310552, 23310561, 23310599 Fax : +91 40 23318366

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M/s Deccan Cements Limited Expansion of Cement Plant with increase of production of clinker from 1.7 to 3.2 MTPA, cement from 1.8 to 4.0 MTPA by installation of new unit (Unit III) & power from 18 to 33 MW by installation of WHRB Power Plant at Existing, located at Mahankaligudem Village, Palakeedu Mandal, Suryapet District, Telangana-508218.

The MoEF&CC accordance with the Environment Impact Assessment (EIA) Notification, 2006 and further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant Environment Clearance for instant proposal of M/s. Deccan Cement Limited under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions..

Status of the Conditions follows

A. Specific Conditions:

S. No	Condition	Compliance
1	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Adherence to the outcome of the judgment.
2	The water bodies passing adjacent to project site within the study area shall not be disturbed. Detailed mitigation measures to prevent any impacts on the water bodies needs to be prepared and implemented.	Not applicable As no water bodies passing adjacent to the project.
3	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Agreed. Will be implemented as per the environmental protection measures submitted to the ministry (EIA/EMP).
4	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF & CC in this regard.	The efforts being made to utilize modern technologies for capturing of carbon emitted and we will comply as the recommendation from the expertise agencies.

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		<p>Upcoming proven technology will to be adopted if any suitable to cement plant</p> <p>"We have engaged M/s. CII for the detailed study of CARBON FOOTPRINT STUDY(Study to estimate carbon sequestration/GHG inventorization). They have have carried out the study and enclosed their report .</p>
5	<p>The activities and the action plan proposed by the project proponent to address the issues raised during public hearing and socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.</p>	<p>Agreed. As per the plan submitted Actions being initiated</p>
6	<p>Particulate matter emissions from all the stacks shall be less than 30 mg/Nm³.</p>	<p>Noted and will be complied As all the emission control equipment designed for < 30mg/Nm³</p>
7	<p>Three tier Green Belt shall be developed in a time frame of one year covering 33% of the total land area with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years</p>	<p>Agreed We have well developed green belt and fulfilled as stipulated with an area of 24.0 Ha all around the plant and also as Part of the Telangana State Haritha Haram. Till now we have planted 36969 no's of saplings in around the plant.</p>
8	<p>3474 m³ /day KLD of water requirement after the proposed expansion shall be met from recycling of treated wastewater from the existing and proposed power plant's ETP and Krishna River after obtaining requisite permission from the Competent Authority. No ground water abstraction is permitted.</p>	<p>Noted and will be complied. As per the water balancing required water will be with the said quantities Installed the STP 300 KLD and ETP 1200 KLD Capacity treated water will be used for the plant operations and green belt development. We have obtained necessary permissions from Krishna water board. Water Balance Annexure -1</p>

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9	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.	Noted and will be complied (Stockyards are asphalted and storm drains are provided for existing plant)
10	Slip roads shall be provided at the gates and along crossings on main roads.	Noted and will be complied
11	All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.	Noted and will be complied
12	Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF & CC.	Noted and will be complied
13	Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.	Monitoring conducted and values are within the limits reports enclosed
14	Project proponent shall develop separate drainage system for storm water and industrial waste water and effectively prevent the pollution of natural water body.	Will be complied
15	Rain water harvesting shall be carried out as per the action plan submitted in the EIA report.	Under progress
16	All the recommendations made in the risk assessment report shall be implemented and compliance status in this regard shall be furnished to the Regional Office of the MoEF&CC along with the six monthly compliance report	Will be complied
17	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	Complied
18	The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC	Complied

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B. General conditions:

I. Statutory compliance:

S. No	Condition	Compliance
1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Agreed and will be followed

II. Air quality monitoring and preservation

S. No	Condition	Compliance
1	The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as 4 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online	Agreed and will be Complied. One new ambient air quality monitoring stations installed in consultation with TSPCB, RO. Existing 3 No's of AAQMS will be relocated as per the advice of the RO. CEMS and CAAQMS are connected to SPCB and CPCB online servers. https://airquality.cpcb.gov.in/industrial/#/p/login http://www.cpcb.nic.in/online-monitoring-of-industrial-emission/ https://tspcb.rtms.telangana.gov.in/#/login

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	servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Third party monitoring of the carried out as per the norms by Lawn enviro associates in each quarter and submitting the reports to TSPCB regularly.
2	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Noted and will be implemented
3	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash;	Agreed and followed
4	The project proponent shall provide wind shelter fence and chemical spraying on the raw material stock piles;	Agreed and will be implemented
5	Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, and cement bagging plants.	Agreed and will be implemented

III. Water quality monitoring and preservation

S. No	Condition	Compliance
1	The project proponent shall install 24x7 continuous effluent monitoring system with	Complied This plant is Zero Discharge

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	respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25 th August, 2014 (Cement) and subsequent amendment dated 9 th May, 2016 (Cement) and 10 th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	300 KL STP and 1200 KLD ETP in operation and all the treated water will be used to meet the process and green belt requirement and balance quantity will drawn from Krishan River. Waste water quality is continuously uploaded to CPCB server. http://www.cpcb.nic.in/online-monitoring-of-industrial-emission/
2	The project proponent shall regularly monitor ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers /sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Complied We have monitoring the ground water as specified in the condition
3	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Complied 300 KLD STP is in operation which is sufficient to the meet the requirements Water quality is monitored and meeting the standards.
4	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off	Noted and Will be complied
5	Water meters shall be provided at the inlet to all unit processes in the cement plant.	Noted and Will be complied
6	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Agreed All the waste water generated from the power plant ETP and STP will be reused as shown in the water balance. Annexure-1

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IV. Noise monitoring and prevention

S. No	Condition	Compliance
1	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report	Noted and Following.

V. Energy Conservation measures

S. No	Condition	Compliance
1	Waste heat recovery system shall be provided for kiln and cooler.	Complied. 7 MW Waste Heat recovery plant is in operation 8 MW Waste Heat Recovery Plant is part of upcoming project. In due course of time come into operation.
2	The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker. EC Identification No. - Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Noted and efforts will be put to reach the targets, at present operating parameters for PPC power consumption 67units /ton, heat consumption is 740 Kcal/Kg Clinker .
3	Provide the project proponent for LED lights in their offices and residential areas.	Complied Futuristic requirement will be fulfilled as per the condition.

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VI. Waste management

S. No	Condition	Compliance
1	Used refractories shall be recycled as far as possible.	Agreed and will be Complied

VII. Green Belt

S. No	Condition	Compliance
1	PP shall undertake the backlog and gap filling of greenbelt work@ 2500 plants/hectare in the 2022 monsoon season itself and shall accordingly increase the budget for green belt purpose.	We have developed green belt and fulfilled as stipulated with an area of 24.0 Ha all around the plant and also as Part of the Telangana State Haritha Haram. Till now we have planted 36969 no's of saplings in around the plant.
2	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Carbon sequestration details enclosed. As recommendation from the third party study.
3	Project proponent shall submit a study report within six months on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames	Noted and will be complied "We have engaged M/s. CII for the detailed study for the "GHG reduction" and carried out the study and enclosed the report.

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VIII. Public hearing and Human health issues

S. No	Condition	Compliance			
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied ISO 9001, 14001 and 45001 certified company with HIRA and Disaster Management Plan in-line with standards.			
2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Heat stress analysis conducted PPE are provided for the workmen working in the high temperature zone/ conditions.			
		S. No.	Definition	Primary Signs and Symptoms	Medical Treatment
		1.	Heat Stroke - Most serious heat related disorder when the body's temperature regulation fails and body temperature rises to critical levels, It's a medical emergency may result in death.	Confusion; irrational behavior; loss of consciousness; convulsions; a lack of sweating (usually); hot, dry skin; and an abnormally high body temperature.	Placed worker in a shady, cool area and the remove outer clothing; Provide the worker fluids (preferably water); circulate air to improved evaporative cooling.
		2.	Heat Exhaustion - Partly due to exhaustion; it is a result of the Combination of excessive heat and dehydration.	Headache, nausea, dizziness, weakness, thirst, and giddiness; Fainting or heat collapse.	Remove from the hot environment and give fluid replacement. Encourage getting adequate rest, and when possible, ice packs should be applied.
		3.	Heat Cramps - Caused by performing hard physical labor in a hot environment.	Electrolyte imbalances caused by sweating and are normally caused by the lack of water replenishment.	Workers in hot environments drink water every 15 to 20 minutes and also drink carbohydrate-electrolyte replacement liquids.

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		4. Heat Rashes - the skin is persistently wetted by un-evaporated sweat.	A red cluster of pimples or small blisters mainly in neck and upper chest, in the groin, under the breasts, and in elbow creases.	Provide a cooler, less humid environment, powder may be used to increase comfort, avoid using ointments or creams.
3	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Agreed and Complied. Medical Checkups are carried as per the norms and records are maintained in OHC. Last medical Camp is conducted during the period 22nd of June to 23 rd June'2023.		

IX. Environment Management

S. No	Condition	Compliance
1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt six villages namely Ravipahad, Mahankaligudem, Janpahad Darga, Janpahad, Kalmetthanda and Sunyapahad based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Complied Enclosed. Infrastructure Development, Drinking water supply, Health and Hygiene, Street lights and Education for the children in consultation with local bodies of the villages are been carried out in the phases manner in all the adopted villages.
2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of	Complied. Copy enclosed Environmental Policy.

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<p>the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report . A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p>	<div style="border: 2px solid red; padding: 10px;"> <p style="text-align: center;"><i>Environmental Policy</i></p> <p>We are dedicated towards the sustainable development and protection of the environment by preventing pollution, saving energy and limiting green house gases, meeting all mandatory and regulatory compliance.</p> <ul style="list-style-type: none"> • Monitoring and measuring the environmental parameters and fixing the environmental objectives and targets. Committed to sustainable development through achieving environmental objectives and targets. • Striving for the improvement of the environment through green belt development, reduction of fossil fuel usage, improving the usage of renewable energies, soil conservation & mineral beneficiation, by rainwater harvesting and recycling of waste water from domestic & industrial sources we meet our plant and mine requirements. • All stakeholders' are included in the Environmental Management Plan with defined roles, responsibilities and accountability towards environmental protection. <p>The company's motto is to create a clean and sustainable environment by reducing the use of natural resources and reusing, recycling, reducing and zero waste generation.</p> <p style="text-align: center;">Date: 02.05.2021 Signature (H/W)</p> </div>
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X. Miscellaneous

S. No	Condition	Compliance
1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied and copy enclosed. Name of the Local news paper and date: 1.Sakshi Telugu Date: 08.07.2022. 2. The Hindu. English Date: 08.07.2022.
2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in	Complied and copy enclosed

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	addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	
3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted and will be complied
4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Noted and will be complied
5	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted and will be complied
6	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Noted and will be complied
7	The project proponent 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, commencing the land development work and start of production operation by the project.	Noted and will be complied
8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted and will be complied
9	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the	Noted and will be complied

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	EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	
10	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted and will be followed
11	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted and accepted
12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and accepted
13	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted and accepted
14	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted and accepted
15	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted and accepted

For M/s Deccan Cements Limited

Authorized Signatory

cc to : 1. HO, TSPCB,
2. ZO Bangalore

M/s Deccan Cements Limited,

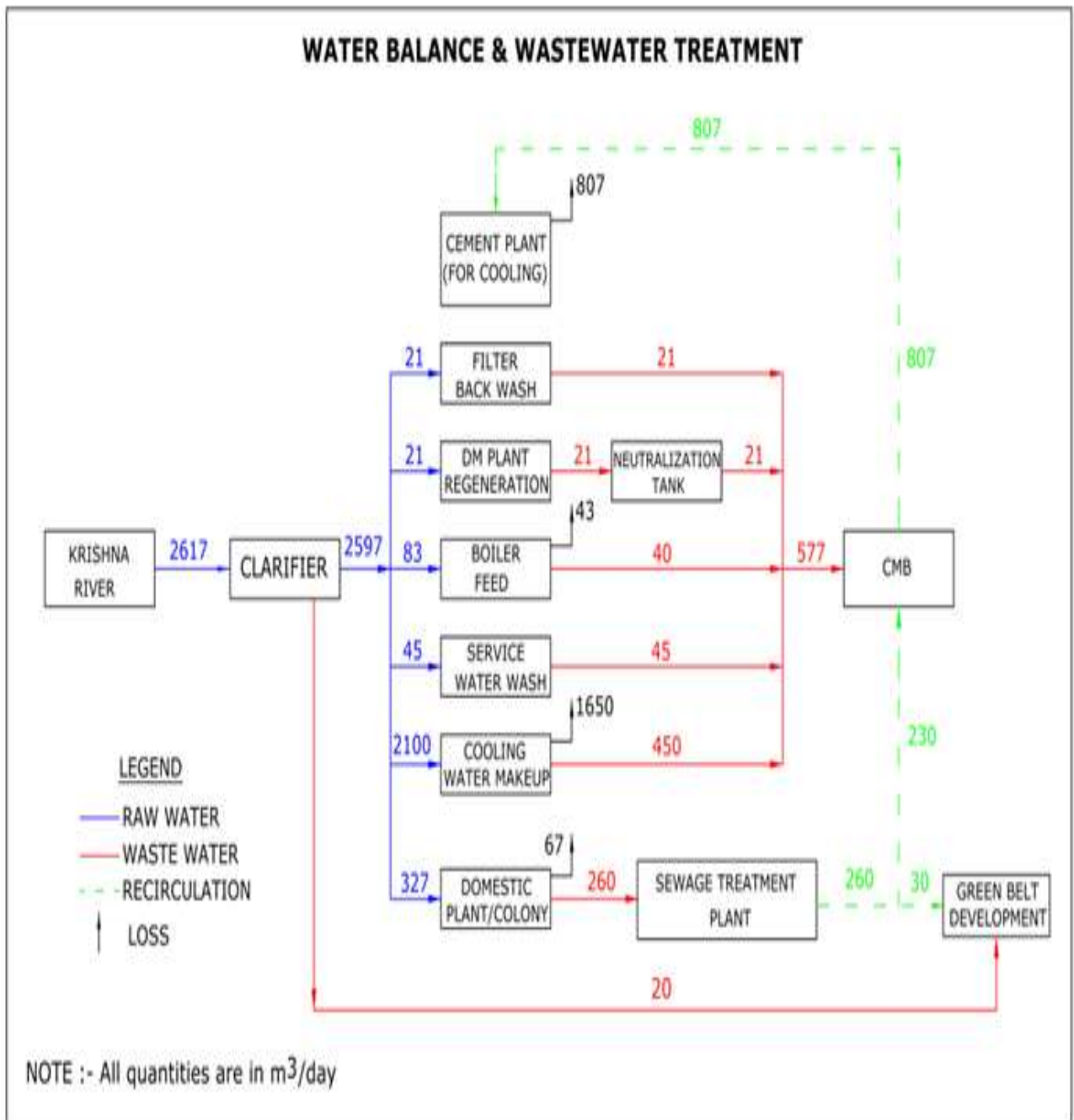
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Annexure -1

WATER BALANCE



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NOTICE

It is notify that M/s Deccan Cements Limited Located at Mahankaligudem, Palakeedu Mandal, Suryapet District, has been accorded necessary environmental clearance for its proposed scheme of Cement Plant expansion with increase of production of clinker from 1.7 to 3.2 MTPA, cement from 1.8 to 4.0 MTPA (by installation of new unit (Unit III) & power generation from 18 to 33 MW by installation of 15 MW (7 MW + 8 MW) WHRB Power Plant by Ministry of Environment, Forest & Climate Change. Govt of India vide their notification : F.No. J-11011/572/2007-IA II, dated. 06/07/2022.

Details available in website also:
www.deccancements.com
www.parivesh.nic.in

Place: Hyderabad
Date: 08/07/2022

Sd/-
Managing Director

ప్రకటన

ఇండుమూలముగా తెలియజేయునది ఏమనగా నూర్కాపేట జిల్లా, పాలకీడు మండలం, మహంకాలి గూడెం వరిధిలో ఉన్న మెన్సర్స్ డెక్కన్ సిమెంట్స్ లిమిటెడ్, తన కర్మాగారా విస్తరణ ద్వారా ఉత్పత్తిని పెంపొందించుకొనుటకై నూతన యూనిట్ - III సంస్థాపన ద్వారా క్లింకర్ ఉత్పత్తిని 1.7 MTPA నుండి 3.2 MTPA నకు, సిమెంట్ ఉత్పత్తిని 1.8 MTPA నుండి 4.00 MTPA వరకు, 7MW మరియు 8MW వెరసి 15 MW ల WHRB పవర్ ప్లాంట్ సంస్థాపన ద్వారా విద్యుత్ ఉత్పత్తిని 18 MW నుండి 33MW వరకు పెంపొందించుకొను ప్రతిపాదిత పథకానికి, సంబంధిత చట్టపరమైన అనుమతిని "వర్యావరణ, అటవీ మరియు వాతావరణ మార్పుల మంత్రిత్వ శాఖ, భారత ప్రభుత్వం" వారి నోటిఫికేషన్ నెం J-11011/572/2007-IA II, తేది. 06-07-2022 ద్వారా పొందినట్లు తెలియచేయటమైనది.

దయచేసి వివరముల కోసం క్రింద పేర్కొనబడిన వెబ్సైట్ లను కూడా సందర్శించండి.

www.deccancements.com
www.parivesh.nic.in

స్థలం : హైదరాబాద్, తేది : 08-07-2022

సం/-
మేనేజింగ్ డైరెక్టర్

M/s Deccan Cements Limited,
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Action Plan

PUBLIC HEARING COMMITMENTS AND ACTION PLAN AND BUDGET

S. No	Activity		1 st Year	2 nd Year	3 rd Year	Total
SWATCH BHARAT						
1	Construction of 30 numbers of toilets 3 villages @ 1 lakhs each Toilets at Janpahd Dargha,	Physical Nos	10	10	10	30
		@Village	Ravipahad	Mahamkaigudem	Janpahad/Dargha	
		Budget Rs Lakhs	10	10	10	30
2	Providing LED street lighting with solar panels in 3 villages @ Rs. 25,000/- each	Physical Nos	20	20	20	60
		@Village	Mahamkaligudem (20 nos)	Ravipahad(20 nos)	Janpahad(20)	
		Budget Rs Lakhs	5	5	5	15
EDUCATION						
1	Leveling the site for the BC Gurukul School and site preparation.	Physical Nos	-	1	-	1
		@Village	-	Palakeedu	-	
		Budget Rs Lakhs	-	15	-	15
ROADS DEVELOPMENT						
1	Repair of internal village roads & drainages (Avg. 2 km of internal roads per village @ 15 Lakhs/km) – Villages	Physical Nos	1 km	1km	1km	5
		@Village	Mahmkaligudem	Ravipahad	Janpahad	
		Budget Rs Lakhs	15	15	15	45
2	Repair of Roads and Sign	Physical Nos	-	-	-	3

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S. No	Activity	1 st Year	2 nd Year	3 rd Year	Total	
	boards	@Village	Sunnyapahad	Janpahad dargha-	-	
	Budget	20	20	-	40	
	Rs Lakhs					
VILLAGE						
1	Development of Janpahad Rama Temple	Physical Nos	-	1	-	1
		@Village	-	Janpahad	-	
	Budget	-	5	-	5	
	Rs Lakhs					
DRINKINGWATER						
1	Provision of RO plants for drinking water in 3 villages @5 Lakhs per RO unit	Physical Nos	1	1	1	3
		@Village	Ravipahad	Kalmet thanda	Janpahad	
	Budget	5	5	5	15	
	Rs Lakhs					
SKILLDEVELOPMENT						
1	Providing skill development training to ITI & diploma passed local youth (for 15 members) per year in plants for a span of one year.	Physical Nos	12 students/year	12 students/year	12 students/year	36
		@Village	Local Youth from 10 km radius			
	Budget	12	12	12	36	
	Rs Lakhs					
HEALTH CARE						
1	Medical Camps for Children and women Camp @ 5 Lakhs	Physical Nos	1	1	1	3
		@ Village	Mahmkaligudem, Ravipahad, Janpahad and	Mahmkaligudem, Ravipahad, Janpahad and	Mahmkaligudem, Ravipahad,	

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S. No	Activity	1 st Year	2 nd Year	3 rd Year	Total
		Local thandas	Local thandas	Janpahad and Local thandas	
	Budget Rs Lakhs	5	5	5	15
2	Awareness programs on health and sanitation and providing PPEs for need Program @ 1 Lakhs	2	2	2	6
	@Village	Mahmkaligudem, Ravipahad, Janpahad and Local thandas	Mahmkaligudem, Ravipahad, Janpahad and Local thandas	Mahmkaligudem, Ravipahad, Janpahad and Local thandas	
		2	2	2	6
OTHERS					
1	Plantation under "Telangana ku Haritha Haram" on the roads Sides, land allotted by Dist. Administration and forest departments. Local species Neem, Ravi, Jamun, amla and fruit breed etc – 30000 Saplings @Rs 200 per sapling	10000 saplings	10000 saplings	10000 saplings -	30000
	@Village	Mahmkaligudem, Ravipahad, Janpahad and Local thandas	Mahmkaligudem, Ravipahad, Janpahad and Local thandas	Mahmkaligudem, Ravipahad, Janpahad and Local thandas	
	Budget Rs Lakhs	20	20	20	60
TOTAL BUDGET (In lakhs of rupees) – Implementation period - 3 years					282

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Confederation of Indian Industry
CII - Sohrabji Godrej Green Business Centre
Survey No. 64, NearHITEC City, Kothaguda Post
R R District, Hyderabad - 500084, India
Tel : +91 40 4418 5111
Fax : +91 40 4418 5189
E-mail : gbc@cii.in
Website : www.greenbusinesscentre.com

K Muralikrishnan
Principal Counsellor

TO WHOMSOEVER IT MAY CONCERN

Deccan Cements Limited has engaged Confederation of Indian Industry – Sohrabji Godrej Green Business Centre (CII – Godrej GBC) to conduct GHG Study for the year 2021-22 and 2022-23.

The GHG study was conducted during Sep - Dec 2023, for the financial year 2021-22 and 2022-23 based on the data submitted by Deccan Cements Limited.

The summary of GHG study conducted for Deccan Cements Limited is enclosed as an annexure.

Yours Faithfully,


K Muralikrishnan
Principal Counsellor

14.03.2024.

M/s Deccan Cements Limited,
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Annexure

GHG study – Deccan Cements Limited
Line 1 & Line 2

Gross Absolute Emission – Including CPP and AFR				
Units	Scope 1 (TCO ₂ e)	Scope 2 (TCO ₂ e)	Scope 3 (TCO ₂ e)*	Total (TCO ₂ e)
2021-22	12,31,500.00	11,519.82	31,978.42	12,74,998.00
2022-23	12,56,014.00	8,396.00	28,152.30	12,92,562.00

Gross Emission Intensity (kg CO ₂ e/MT of Eq Cement)					
Units	MT of Eq Cement	Scope 1	Scope 2	Scope 3*	Total
2021-22	17,57,310.00	701.00	6.56	18.20	725.76
2022-23	18,81,479.00	668.00	4.46	14.96	687.42

Net Absolute Emission – Excluding CPP and AFR				
Units	Scope 1 (TCO ₂ e)	Scope 2 (TCO ₂ e)	Scope 3 (TCO ₂ e)*	Total (TCO ₂ e)
2021-22	11,10,793.00	11,519.82	31,978.42	11,54,291.00
2022-23	11,32,238.00	8,396.00	28,152.30	11,68,786.00

Net Emission Intensity (kg CO ₂ e/MT of Eq Cement)					
Units	MT of Eq Cement	Scope 1	Scope 2	Scope 3*	Total
2021-22	17,57,310.00	632.00	6.56	18.20	656.76
2022-23	18,81,479.00	602.00	4.46	14.96	621.42

Line 3 (New Line)- Estimated Emissions

Net Absolute Emission (TCO ₂ e)			
Scope 1	Scope 2	Scope 3*	Total
12,42,085.00	80,295.60	40,100.46	13,62,481.00

Net Emission Intensity (kg CO ₂ e/MT of Eq Cement)				
MT of Eq Cement	Scope 1	Scope 2	Scope 3*	Total
22,02,200.00	564.00	36.46	18.21	619.00

Line 1 & 2 Production FY 21-22: 35% of OPC and 65% of PPC
 Line 1 & 2 Production FY 22-23: 25% of OPC and 75% of PPC
 Line 3 Production: 14% of OPC and 87% of PPC

*Scope 3 Categories Inventorized: Upstream Transportation, Downstream Transportation, Fuel and Energy-Related Activities, Waste Generated In Operations, Employee Commute, Business Travel.

B. Munde
 14.03.24



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Executive Summary

Deccan cements Limited (DCL), located at Bhavanipuram, Nalgonda District of Telangana, at around 165 kms from Hyderabad. DCL was incorporated as a Public Limited Company in the year 1979 and commenced commercial production in 1982. The cement plant manufactures a wide variety of cements, including specialty cements for special applications, conforming to BIS, British and ASTM standards. The regular grades of cement manufactured include OPC 43, OPC 53, PPC and PSC. Specialty cements produced include S53 for railway applications, SRC (Sulphate Resistant Cement), Low Heat Cement and Low Alkali Cement.

This report elaborates the study conducted for establishing Carbon footprint of the products manufactured at Deccan cement and potential roadmap for Deccan Cements Limited to reduce their GHG emissions. The carbon footprint of the products were estimated for the year 2021-22 and 2022-23, for the two existing Lines and one proposed new line. The emissions are classified under Scope 1, Scope 2, and Scope 3 emissions.

GHG inventorisation study was conducted following the GCCA (Global Cement & Concrete Association) standard and Greenhouse Gas Protocol. From the study the Net emissions of the Deccan Cements limited (Line 1 , 2 & 3 combined) estimated to be 2.53 million tCO₂ eq. (Excluding CPP and AFR) and emission intensity is 620 kg CO₂/MT eq. cement.

Table 1 DCL Total Net Emissions

Particulars	kg CO ₂ /MT eq cement	Million TCO ₂ eq.
Total gross emissions including emissions from CPP & alternate fuels	651	26,55,042
Gross emission (excluding emission from CPP)	620	25,31,267
Net emissions (excluding AF and CPP emissions)	620	25,31,267

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Table 29: Setting GHG emission reduction targets based on emission reduction levers for 2030.

Sr. No.	Levers	Unit	Existing 2023	Target for 2030	Indicator 2030	Reduction in GHG emission intensity (kg CO ₂ /MT eq cement) 2030
1	Clinker factor	-	0.70	4%	0.67	23.46
2	Increase Alternate fuel TSR	-	0%	10%	10%	23.10
3	Thermal SEC	kcal/MT clinker	740.00	2%	725	4.62
4	Electrical SEC	kWh/MT cement	75.00	2.5%	73	1.48
5	Renewable Energy	%	0.00	10%	10%	5.93
6	Carbon sequestration	Plantation	0.39%	22%	0.50%	3.11
7	EV vehicle for material and finished good transpor		15.84	25.0%	3.96	3.96
8	Advance technologies *	CCUS, Kiln electrificati on, etc		1%	1%	6.21
Total reduction		kg CO₂/MT eq cement		12%		71.87

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Table 18: Setting GHG emission reduction targets based on emission reduction levers for 2050.

Sr. No.	Levers	Unit	Existing 2023	Target 2050	Indicator 2050	Reduction in emission intensity (kg CO ₂ /MT eq cement) 2050
1	Clinker factor	-	0.70	10%	0.60	79.78
2	Increase Alternate fuel TSR	-	0%	30%	40%	67.86
3	Thermal SEC	kcal/MT clinker	740.00	4%	696	9.05
4	Electrical SEC	kWh/MT cement	75.00	8.0%	67	6.10
5	Renewable Energy	%	0.00	50%	50%	29.63
6	Carbon sequestration	Plantation	0.39%	945%	5.00%	32.82
7	EV vehicle for material and finished good transpor		15.84	50%	11.88	11.88
8	Advance technologies *	CCUS, Kiln electrification, Green Hydrogen etc		5%	6%	37.27
Total reduction		kg CO₂/MT eq cement		44%		274.38

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ETP AREATED WETLANDS TREATMENT TECHNOLOGY

CAPACITY 1200 KLD



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