O/C

JK LAKSHMI CEMENT LTD.

JKLC/DU/ENV/ENST-11/2025-26/2

Dated: 24.06.2025

To,

Member Secretary
Chhattisgarh Environment Conservation board
Paryawas Bhawan, North Block, Sector-19,
Atal Nagar Dist-Raipur (C.G)- 492002

Subject: Submission of Environmental Statement Report (Form-V) for the year 2024-25.

Sir,

We are submitting herewith **"Environmental Statement report (Form-V)"** for our Integrated Cement Plant (Clinker – 1.98 MTPA, Cement – 5.0 MTPA, WHR - 10 MW), Captive Power Plant (20 MW), and for Lime Stone Mines (Lease Area ML-1, 267.695 Ha. and ML-2, 252.105 Ha.) for the financial year **2024-25** ending 31st March 2025.

This is for your kind Record and perusal please.

Yours Faithfully

For **JK Lakshmi Cement Ltd.**

Mukul Srivastava
(Sr. Vice President-Works)

Encl: **Environmental Statement Report (Form- V)**

CC: Regional Officer- Chhattisgarh Environment Conservation Board, 5/32 Bungalow, Bhilai, Dist.-Durg, C.G

R.O.C.E.C.B., BHILAI

H.O.C.G. Environment Conservation Board, Atal Nagar, Distt.-Raipur (C.G.)

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Regd. & Work Office : Jaykaypuram, Distt.-Sirohi, Rajasthan, Phone : 02971-244409/244410, Fax : 02971-244417, E-mail : lakshmi_cement@lc.jkmail.com
Local Address : Village-Malpuri Khurd, Khasadih, P.O. & Teh.-Ahiwara, Distt.-Durg-490 036 (C.G.), Tele.: 8966902222, 8966903333
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ENVIRONMENT STATEMENT
(Form-V)

JK LAKSHMI CEMENT LTD

YEAR 2024-25

JK LAKSHMI CEMENT LTD

Village- Malpuri Khurd Khasadih,
PO Ahiwara, Teshil Dhamdha,
Dist- Durg (C.G.) 490036

[FORM – V]
(See rule 14)
Environmental Statement for the financial year ending 31st March 2025
PART – A

1. Company Name : **JK LAKSHMI CEMENT LTD.**
2. Occupier Name : **MR. ARUN KUMAR SHUKLA**
3. Registered Office Address : **JAYKAYPURAM, DISTRICT – SIROHI, RAJASTHAN - 307019**
4. Factory Address : **JK LAKSHMI CEMENT LTD**
   VILLAGE – MALPURI KHURD, KHASADIH
   P.O- AHIWARA, TEH. – AHIWARA,
   DIST. – DURG (CG) 490036
5. Industry Category : **CEMENT MANUFACTURING**
6. Production Capacity : **CLINKER – 1.98 MTPA**
   WHR -10 MW
   CEMENT – 5.0 MTPA
   CAPTIVE POWER PLANT- 20 MW
   LIME STONE MINING (Mines Lease Area 267.695 ha and 252.105 ha) – 4.8 MTPA
7. Year of Establishment : **2015 (Year of Commissioning)**
8. Date of Last Environment Statement submitted : **30/09/2024**

PART – B
Water and Raw Material Consumption

1. Total Water Consumption in (KLD) during 2024-25

S. No	Source Name	Total Water Consumption (KLD)
1	Domestic	**255.66**
2	Dust Suppression	**37.25**
3	Industrial Process Cooling	**469.16**
4	Plantation	**10.25**
5	WHR & CPP	**188.58**

2. Water Consumption per unit of the product -

S. No	Name of the Product	Water Consumption per unit of Product (Kg./m^3)
1	Clinker	**0.203 m3/MT**
2	Cement	**0.162 m3/MT**
3	Power from WHR	**0.61 KLD/MWH**

50% in clinker production, 30% in cement Production & 20% for Power Generation

3. Raw Material Consumption

S. No	Name of Raw Material	Name of Product	Consumption of Raw Material per Unit of Output (MT)	
			During Previous Financial Year 2023-24	During Current Financial Year 2024-25
1	Lime Stone	Clinker	**1.55**	1.474
2	Additives		**0.06**	0.06
3	Clinker	Cement	**0.53**	0.5337
4	A. Gypsum	Cement	**0.16**	0.087
5	Fly Ash	Cement	**0.35**	0.27
6	BF Slag	Cement	**0.11**	0.106
Fuel Consumption				
1	Coal (MT)	CPP	**309026**	**42874.00**
2	Coal (MT)	Plant		**218695.522**
3	Petcock (MT)	Plant	**66598**	**49732.745**
4	Furnace Oil (in KL)	Plant	**101.969**	**130.465**
5	Diesel (in KL)	Plant	**7370**	**1999.788**
6	Diesel (in KL)	Mines		**361.008**

The figures are on the wet weight basis

PART - C

Pollution discharged to environment/unit of output

1. Water Pollution – NIL

S. No.	Name of Parameter	Prescribed Limit (mg/m^3)	Quantity of Pollutant Discharged (kg/day)	Concentration of Pollutants in Discharge (mg/m^3)	Percentage of Variation from prescribed limit
	Our unit is Zero Discharge Unit and there is no waste water Discharged.				

2. Air Pollution -

S. No	**Source**	**Name of Parameter**	**Prescribed Limit (mg/m^3)**	**AVG Concentration of Pollutants in Discharge (mg/m^3)**	**Percentage of Variation from prescribed limit**
1	Mines Crusher	Particulate Matter	30	**26.59**	**11.36**
2	Raw Mill + Kiln		30	**22.53**	**24.9**
3	Clinker Cooler		30	**21.8**	**27.33**
4	Coal Mill		30	**25.12**	**16.26**
5	Cement Mill 1		30	**22.81**	**23.96**
6	Cement Mill 2		30	**22.83**	**23.9**
7	Slag Mill		30	**26.95**	**10.16**
8	Boiler		30	**19.31**	**35.63**

PART D

Hazardous Wastes

Description	**Quantity During last Financial Year 2023-24**	**Quantity During Current Financial Year 2024-25**	**Method of Disposal**
Used Oil	7.8 MT	8.9 MT	Sold to authorized recyclers
Grease	2.4 MT	3.44 MT	Sold to authorized recyclers

PART – E

Solid Wastes

Description	**Quantity (MT)**	**Method of Disposal**
MANGANESE SCRAP	13.400	Sold to Recyclers & Internal Use
GRINDING MEDIA SCRAP	Nil	Sold to Authorized Recyclers

M S SCRAP	220.320	Sold to Authorized Recyclers

Other Wastes

Description	Quantity in (MT)	Method of Disposal
E-Mixed Waste	0.400	Sold in buy back Method
Battery Waste	4.832	Sold in buy back Method

PART – F

Characterization of Hazardous / Solid Waste

S. No.	Description	Quantity (kg)	Method of Disposal
A	Used Oil	8900	Sold to authorized recyclers
	Parameter	**Unit**	**Concentration**
1	Total Halogen	PPM	1334
2	Lead	PPM	9.4
3	Cadmium + Chromium + Nickel	PPM	5.3
4	Arsenic	PPM	0.61
5	Polychlorinated Biphenyles (PCB)	PPM	Nil
6	Polycarbonate Hydrocarbon (PAH)	PPM	3.61
7	Water Content	%	0.73
8	Sulphur	%	0.90
9	Sediments	%	0.23

PART – G

Impact of Pollution Control Measures on Conservation of Natural Resources and Cost Production

Our Plant is equipped with state-of-the-art Air Pollution Control devices such as Reverse Air Bag Houses, Jet Pulse Filters and Electrostatic precipitator, which are designed to control emission (SPM) level below 30 mg/Nm^3 from all stacks installed at our plant. In addition, we are successfully managing the ambient air quality by controlling dust emissions using nuisance bag Filters at each of the transfer points and covered belt conveyors. All these systems have proved to be very effective in arresting and putting back recovered material into the production line, thereby utilizing our resources with utmost efficiency. We take utmost attention to arrest precious raw materials, fuel, intermediate & finished products from getting lost in the atmosphere. Our plant has laid fully concrete road for the vehicular movement throughout our site.

We have two, state of art road sweeping machines, which are engaged in road cleaning and to control dust emissions from any fugitive emissions.

We have "Waste heat recovery unit" which is a state of art technology, which uses waste heat to generate 10 MW this is a classic example of our commitment towards maximum energy utilization and pollution control. Apart from this additionally, we have undertaken various energy efficiency improvements and measures, and we took up process optimization to help reduce overall energy consumption to enable us to reduce GHG emissions and contribute positively towards reversing the effects of Climate Change. Thus, pollution abatement & other energy conservation practices adopted by us save precious raw material/ product and help immensely in conserving valuable natural resources. To name few energy conservation initiatives we have replaced all HPSV lamps with LED Lights, replaced DOL with VFD and false air reduction in TAD etc. We have also installed state of the art technology "SNCR (Selective Non Catalytic Reduction)" to reduce NOx and NO_2 to N_2 with the help of NH_3 and a catalyst.

This shows our serious commitment of our industry towards environment.

PART – H

Additional investment projection on Environmental Protection

Environmental improvement activities planned for 2024-25:

1. **Green Belt Development at Plant and mines area.**

We have dedicated team of skilled horticultural workers for plantation work with special reference to high density plantation (HDP) and green belt development program at our plant premises under the supervision of senior experienced person (Horticulture Officer). During 2024-25 total 11,361 saplings are planted including 2000 saplings at plant premises and 9361 saplings at mines premises. In the next financial year 2025-26, a total of 12000 saplings will be planted at plant and mines area.

S. No	Activity	Expenditure 2023-24	Projected Exp. 2024-25 (Approx.)
1	Environment	2.25 Crore	2.84 Crore
2	CSR	1.23 Crore	1.10 Crore

PART – I

Any other particulars for improving the quality of the environment

1. Utilization of Industrial waste/byproducts

a. Fly Ash: We have consumed 679823.399 MT (From April 2024 to March 2025) of fly ash which is solid waste generated from Thermal Power Plants. The fly ash is transported at site through closed container and stored in closed silos from where it will be pneumatically conveyed to cement mill for cement grinding process for cement manufacturing.

b. Slag: Similarly for the production of Portland Slag cement, we are using slag which is also a waste material of steel manufacturing unit. In the Last financial year we have utilized 344365.321 MT of slag for the cement production.

2. Water Conservation Programs

For water conservation JK Lakshmi Cement Ltd. has installed total 52 nos. of rain water harvesting structures at plant and mines area. Rain Water Harvesting potential on average rain fall @ 1101 mm we harvested @ 1630045 m3 rainwater on recharge structures in FY 2024-25. All this was made possible by putting all our efforts in increasing our catchment area.

To monitor ground water table recharge of aquifer, we have piezometers in plant and mines area for regular ground water level monitoring.

3. Environment Awareness Programs

During last financial year JK Lakshmi cement has celebrated World Environment day, World Water Day, World Earth Day, world Ozone day and world women day for spreading awareness not just among employees & workers but also to students in nearby schools and villagers in nearby villages.

Various training programs are being organized for JKLC Employees, Family members, CGWA Employees, School students, Engineering college students and villagers on watershed management through rain water harvesting, water conservation, ground water conservation and Environment Conservation.To spread awareness amongst younger generation among the students various competitions like Environmental Quiz, Poster and Slogan competitions are being organized and winners of the competitions are awarded with a token of Gift.

Various training programs are conducted during FY 2024-25

Rainwater harvesting Inhouse & Field Training for CGWA Trainees

Celebration of World Environment Day

घर के आसपास या कार्यस्थल पर पौधरोपण करें : श्रीवास्तव

दुर्ग @ पत्रिका . विश्व पर्यावरण दिवस पर जेके लक्ष्मी सीमेंट दुर्ग द्वारा वृक्षारोपण का वृहद कार्यक्रम आयोजित किया गया। जेके लक्ष्मी सीमेंट माइंस सिमरिया ग्राम में एवं स्वास्थ्य केंद्र अहिवारा में वृक्षारोपण किया गया। कार्यक्रम में मुख्य अतिथि के रूप में संयंत्र प्रमुख मुकुल श्रीवास्तव ने उपस्थित होकर पर्यावरण संरक्षण की महत्व बताया एवं कहा कि प्रत्येक व्यक्ति को अपने घर के आसपास एवं कार्य स्थल में वृक्षारोपण करना चाहिए और उसकी देखभाल करनी चाहिए। इस अवसर पर जेके लक्ष्मी सीमेंट के मानव संसाधन विभाग के प्रमुख कप्तान शिरीष शुक्ला ने कहा कि जेके लक्ष्मी संयंत्र द्वारा कारखाना एवं आसपास लगातार वृक्षारोपण किया जा रहा है। कारखाने में पर्यावरण संरक्षण पर विवाज कंपटीशन का आयोजन किया गया। जिसमें सभी कर्मचारियों ने भाग लिया। जेके लक्ष्मी सीमेंट के सीटिकल्चर एवं एनवायरमेंट विभाग द्वारा कार्यक्रम का आयोजन किया गया। कार्यक्रम में मुख्य रूप से उपस्थित थे संयंत्र प्रमुख मुकुल श्रीवास्तव, ब्लॉक स्वास्थ्य अधिकारी डीपी ठाकुर, डॉ रवींद्र वर्मा, संजय खुद, शिरीष शुक्ला, लालूलाल भाटी, संजय अरोड़ा, मनीष तिवारी समेत अन्य उपस्थित थे।

खदान क्षेत्र में किया पौधारोपण

पौधारोपण करते कर्मचारी एवं अधिकारी। ● आयोजक

नईदुनिया न्यूज, नंदिनी : विश्व पर्यावरण दिवस के अवसर पर जेके लक्ष्मी सीमेंट कंपनी द्वारा चूना पत्थर खदान क्षेत्र में पौधारोपण किया गया। मुख्य अतिथि कारखाना प्रमुख मुकुल श्रीवास्तव थे। कर्मचारियों व अधिकारियों द्वारा पौधा रोपा गया। इस अवसर पर आनलाइन प्रश्नोत्तरी प्रतियोगिता का आयोजन किया गया, 108 कर्मचारी प्रतिभागी रहे। विजेताओं को पुरस्कृत किया गया।

Ozone Day Awareness Program at near by Villages

World Earth Day Awareness Program

Jal shakti abhiyan Theme Nari shakti se jal shakti


जेके लक्ष्मी सीमेंट लि
जल शक्ति अभियान
"कैच द रेन - 2024

1. Introduction

JK Lakshmi Cement Ltd. (JKLC) is a flagship Company of Shri Bharat Hari Singhania, JK Organization. JK Organization is well diversified and one of the oldest Indian Industrial Houses and was founded over 100 years ago. It comprises of three separate branches with the management responsibilities clearly delineated amongst them. The other well-known Companies of the group are JK Tyre & Industries Ltd., JK Paper Ltd., Fenner (India) Ltd., JK Agri-Genetics Ltd. Umang Dairies etc.

JKLC is engaged in the business of Cement manufacture since 1982. JKLC's first Cement Plant was set up in the year 1982 with a capacity of 0.5 MTPA of Cement, which over the years, have been increased to 6.0 MTPA including Cement Grinding Unit of 0.5 MTPA each in Kalol in Gujarat & Jhajjar in Haryana. The plants are ISO-9001, ISO-14001, ISO-45001, ISO 50001 and NABL certified and maintain very high level standards in Quality, Environment and Safety fields.

Keeping in touch with the global construction trends & changing needs of customers, the Company has introduced state-of-the-art Ready Mix Concrete (RMC) with the brand name 'JK Lakshmi Power Mix'. JKLC has already commenced AAC Block Plant at Jhajjar, Haryana to utilize fly ash available locally. 'JK Lakshmi Plast' the first premium branded Plaster of

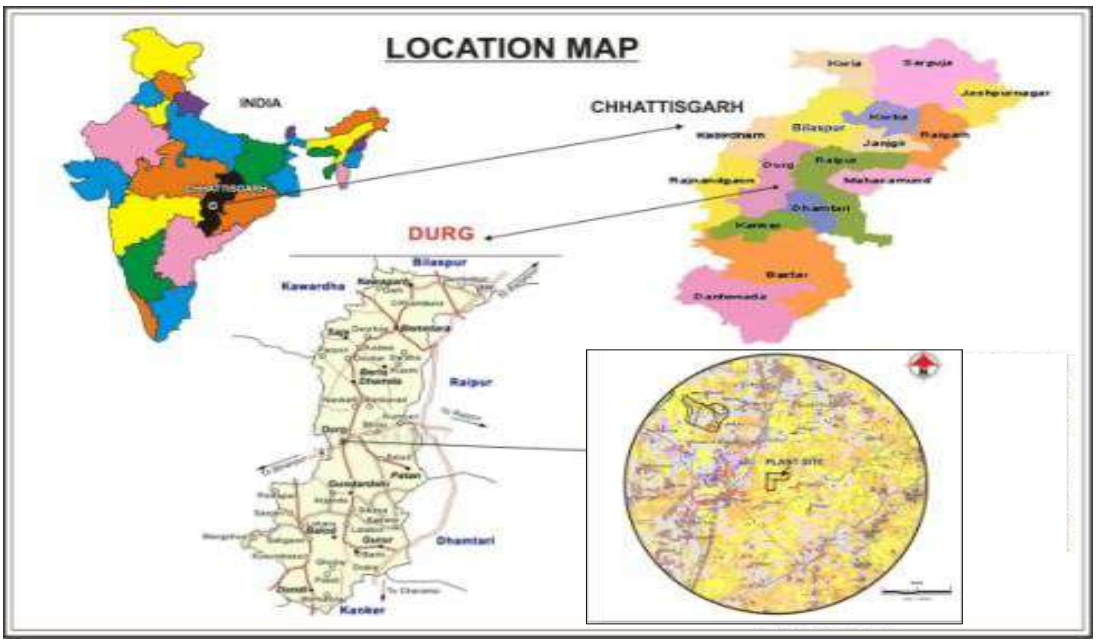
Paris (POP) in Northern India is another value added product launched by the Company for discerning customers.

JK Lakshmi Cement Limited (JKLC) Durg has a production capacity of 1.98 MTPA clinker, 5.0 MTPA cement production capacity was started production on **19th January 2015**. Maintaining quality control and sustainable development as its business strategy, the company attaches utmost importance to value growth as the secret to its success. JK Group and JKLC have its corporate office at Delhi.

JK Lakshmi Cement ltd., Durg is an ISO 9001, ISO 14001, ISO 45001 and ISO 50001 certified company. Within One year of commissioning JK Lakshmi Cement Ltd has certified with ISO 14001, 50001, 9001 & ISO 45001.

2. SITE LOCATION

JK Lakshmi Cement Limited (JKLC) Durg site is located at Malpuri Khurd, Khasadih, PO. Ahiwara, Tehsil- Dhamdha, Dist. – Durg, 490036 Chhattisgarh.



JKLC is committed to create a brand which is synonymous with quality, conviction and excellence. Sustainable development and collective progress are the pillars on which this plant strives to grow and become the market leader in its field. The design of the plant follows the required environment norms and all other standards that are hallmarks of a budding giant.

2.1 DETAILS OF PLANT AND MINES

Table 1: Details of Plant and Mines Capacity

Sr. No.	Particulars	Details
A	**Integrated Cement Plant**	
1	Clinker Production	**1.98 MTPA**
2	Cement Plant	**5 MTPA**
3	Waste Heat Recovery Unit	**10 MW**
4	Captive Power Plant	**20 MW**
B	**Limestone Mines**	
5	Limestone Mine	**Mine no. 1: 267.695 ha** **Mine no. 2: 252.105 ha** **Production capacity: 4.8 MTPA**

3. RAW MATERIAL AND PRODUCTS

Raw materials used and products produced in the financial year 2024-2025 are as follows:

Table 2: Raw Materials Consumption

S. No	Name of Raw Material	Quantity in MT
1	Limestone	**2758297.59**
2	Additives	**78764.726**
3	Clinker	**1880000**
4	Gypsum	**84811.152**
5	Fly ash	**679823.399**
6	BF Slag	**344365.321**

Table 3: Products Generation

S. No.	Products	Quantity in MT
1	Limestone	**2758297.59**
2	Clinker	**1880000**
3	Cement	**2490001**

4.0 MANUFACTURING PROCESS DESCRIPTION OF CEMENT

4.1 Crusher and stacking of material

The Company has an impact crusher to crush the limestone sourced from its captive limestone mines located at 5.6 Km from plant site. The crushed material is transported to stockpile. The crushed material is stack at limestone storage shed through stacker. The semi crushed material received from crusher and the reclaimer is used for reclaiming and further feeding the material to the raw meal hoppers for further processing in the mills.

At Limestone crusher as well as in the material stacking area, we have installed sufficient number of bag filters wherever required to control the dust emission level below 30 mg/Nm³. The Average stack emission levels achieved during 2024-25 was 26.59 mg/Nm³ from the stack.

4.2 Raw Mill

JKLC have state of raw mill to convert the limestone to a very fine powder. The ground material is stored in Raw Mill silo. In Raw Mill, we have installed the latest available technology. The Raw Mill consists of reverse Air Bag House (RABH). The Bag house is designed to control the stack emission levels below 30 mg/Nm³. The height of the raw mill/ Kiln stack is 64M highs with continuous online stack monitoring system. Average stack emission levels achieved during 2024-25 was 22.53 mg/Nm³ with Raw Mill & Kiln running.

4.3 Coal Circuit

The coal circuit comprises of unloading, storage and feeding systems. The coal received at plant site is being stored at the coal storage shed through coal stacker. The stored coal is being reclaimed to the coal mill by reclaimer through closed conveyer belts to control the fugitive dust emission. Grinding of coal is done by a vertical mill. After grinding to a desired level of fineness, the coal powder is stored in bins for onward feeding to Kiln circuit. The Coal Mill circuit, starting from truck unloading to finish product storage (fine coal bins), nuisance bag filters and process bag filters are installed to control the emission levels below 30 mg/Nm³. Coal Mill stack is also equipped with continuous online monitoring system. Average stack emission levels achieved during 2024-25 was 25.12 mg/Nm³.

4 .4 Preheater and Kiln

The Kiln is fired with coal which is heated up to a desired temperature as per process requirement. Powdered raw meal from the raw meal silo is fed into the Kiln through double string, 5 stage preheater system. The kiln and Calciner are fired with fine coal through specially designed burners. Raw meal is now sintered and converted into clinker which is cooled in Clinker Cooler. The cooled material is transported through deep pan conveyor and stored in covered clinker silo. Low NOx firing system is provided in the pre-heater to control NOx level in the flue gases from the pre-heater.

In kiln feed, most of the cement industries use iron ore as an additive, whereas JKLC Cement partly substitutes Iron Ore with Flue Dust, a by-product from Steel industries.

4.5 Clinker Cooler

Clinker is discharged from a rotary kiln into a clinker cooler to cool down from 1350°C to around 100°C. The temperature of exhaust gases generate during this operation ranges from 320-350°C. To control the fine clinker dust, JKLC have installed Electro-static precipitator (ESP) as an air pollution control device to control the dust emissions below 30 mg/Nm^3. For the continuous monitoring of the dust emission online emission monitoring system installed at clinker cooler chimney. Average stack emission levels achieved during 2024-25 was 21.8 mg/Nm^3.

4.6 Cement Mill

The plant has two cement mills, for grinding the clinker with gypsum Fly ash and slag as per the requirement. After grinding, the Five type of products i.e. OPC, PPC, PSC COC and PHD are stored in separate cement silos. To control the dust emissions below 30 mg/Nm bag house are installed. For the continuous monitoring of the dust emission online emission monitoring systems are installed at both cement mill chimney. The Average stack emission levels achieved during 2024-25 for the Cement Mill-1 & 2 were 22.81 mg/Nm^3 and 22.83 mg/Nm^3respectively.

4.7 Slag Mills

The slag from the still industry is stored at Slag storage shed by slag stacker and reclaimed to the slag mill through closed conveyer belts to control the fugitive dust emission. There is state of art Vertical Mill provided for the grinding of Slag. In the slag mill, waste products/ by-products such as Slag from Steel plants are grind with 4-5% Gypsum to produce Portland Slag Cement (PSC), both OPC and bag house are installed to control the dust emissions below 30 mg/Nm^3 and for the continuous monitoring of the dust emission online emission monitoring systems are installed at slag mill chimney. The Average stack emission levels achieved during 2024-25 was 26.95 mg/Nm^3.

4.8 Packing plant

The Company has installed 4 Nos of latest technology packers supplied by FL Smith Ventomatic & Beumer India. Bag is fixed to nozzle (spout) of the rotary packer manually and is filled by the packer automatically. The bags, having filled with predetermined quantity, are discharged on to the conveyor and carried to the loading machine. In between, an online printer is installed for printing of MRP, Week No & Year on every bag. Bags are loaded in the trucks in a systematic way through 02 No of Fully automatic loader and 07 no of Semi-automatic loaders. In fully automatic loader no humans needed to load the cement bags in the truck, staking and loading is done with computerized program. In semi-automatic loader Human (loader) needed but not needed to touch the bags while loading into the trucks. The operators of the truck loader can fix the loading pattern on the truck automatically. With such a system, the health of packing plant and personnel and loaders is safeguarded against exposure to dust and other harmful pollutants.

5. Water Requirement

Table 4. Water consumption for the year 2024-25

S. No	Source Name	Total Water Consumption (M^3)
1	Domestic	93319
2	Plantation	3210
3	Dust Suppression	11662
4	Process (Cooling)	154824

6. POLLUTION CONTROL IN THE PLANT

6.1 Pollution Control Equipment's

The industry has given utmost priority to pollution prevention measures. Therefore, all the sources that release particulate matter are provided with bag filters designed to control particulate emissions in the range of 30mg/Nm^3. To control the fugitive dust emission during the transfer of raw material through conveyer belts, closed conveyer belts are provided. Details of the major pollution control are given in Table No 5.

Reverse Air Bag House and Electrostatic Precipitator

Slag mill and Coal mill Bag House


Closed storage sheds for raw material storage




Closed conveyors for material transpiration to control fugitive dust emission control

Table: 05 Air Pollution Control Equipment's

Sr. No	Section	Air Pollution Control Equipment's	Efficiency
1	Crusher	Bag House	99.99 %
2	Raw Mill + Kiln	Reverse Air Bag House	99.99 %
3	Clinker Cooler	Electrostatic Precipitator	99.99 %
4	Coal Mill	Bag House	99.99 %

5	Cement Mill 1	Bag House	99.99 %
6	Cement Mill 2	Bag House	99.99 %
7	Slag Mill	Bag House	99.99 %
8	All Transfer Points	Nuisance Bag Filters	99.99 %
9	CPP (Boiler)	Electrostatic Precipitator	99.99 %

6.1.1 Mechanical Road Sweeper for road cleaning

To control the fugitive dust emission due to vehicle transportation 02 no of state of art Road Sweeping machines have been used for the road cleaning.

Mechanical Road sweepers for the road cleaning

6.1.2 Concrete Road:

Concrete road for the material transportation at mines and from Mines to plant site

Concrete Roads within Plant

6.2 Environment Monitoring

6.2.1 Pollution Monitoring Equipment

For the continuous emission dust monitoring 06 No of opacity meters are installed at all major stacks. For the Continuous Emission monitoring of SOx , NOx and CO Continuous Emission Monitoring Station (CEMS) of Siemens are installed at RABH stack & CPP Stack. The stack emission data is being uploaded on the Central Pollution Control Board (CPCB) and Chhattisgarh Environment Conservation Board (CECB). The Stack emission is well within the permissible limits prescribed by Chhattisgarh Environment Conservation Board (CECB)/ CPCB / MoEF. Industry has also installed 6 Number of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) for continuous ambient air quality monitoring. The ambient air quality monitoring data for the year 2024-25 observed well within the limit of National Ambient Air Quality Standards, India NAAQS. The data of online emission monitoring and online ambient air quality monitoring are being displayed at display board installed at main gate of plant and mines and the same is being uploaded on the CPCB and State Pollution Control board server.

Continuous Ambient Air Quality Monitoring Station installed at Mines Area

Continuous Ambient Air Quality Monitoring Station installed at Plant Area

Display of Data from Monitoring data at main gate

Continuous Emission Monitoring System For SOx, Nox & CO Monitoring


Opacity meters installed at all major stacks

6.2.2 Environment Laboratory

JKLC have separate laboratory for the monitoring of Air and water quality. Entire instrument required for the water and air analysis are available at laboratory. We are also being monitoring of air & water quality through authorized outsource NABL approved laboratory and the result of analysis is being submit to the CECB on monthly basis.


Establishment of Environment Laboratory at plant site

6.2.3 Stack Emission Monitoring

Table -6: Average Stack Emission monitoring data for Year 2024-25

Sr. No	Section	Attached to	Stack Height (m)	Stack Dia (m)	SPM mg/Nm3
1	Mines Crusher	Bag House	32	1.5	26.59
2	Raw Mill + Kiln	Reverse Air Bag House	64	6	22.53
3.	Clinker Cooler	Electrostatic Precipitator	43	3.55	21.8
4	Coal Mill	Bag House	57.7	2.8	25.12

5	Cement Mill 1	Bag House	56.1	1.4	22.81
6	Cement Mill 2	Bag House	56.1	1.4	22.83
7	Slag Mill	Bag House	48	4.3	26.95
8	CPP Boiler	Electrostatic Precipitator	85.0	2.0	19.31

6.2.4 Ambient Air Quality

Regularly Ambient air quality monitoring is carried out at 04 locations at plant and 12 locations at mines including 04 continuous ambient air quality monitoring station at plant and 02 No of AAQMS at mines area. Ambient air quality is monitored continuously for the estimation of Particulate matter -PM10 Particulate matter- PM2.5, SO2, NOx and CO Average values for the parameters monitored are represented in Table 7 & 8 which concluded that the values for PM10, PM2.5, are within the limits prescribed by the CECB/NAAQS.

A. Location at Plant

a. AAQMS -1(Near Main Gate)

b. AAQMS-2(Coal Dump Yard)

c. AAQMS – 3(Railway Siding)

d. AAQMS – 4(Clinker Yard)

B. Location at Mines

a. Near Mines office
b. Towards North direction
c. Towards East direction
d. Towards South direction
e. AAQMS – 1(East direction)
f. AAQMS – 2(West direction)
g. AAQMS – 3 (North direction)
h. AAQMS – 4 (South direction)
i. AAQM – 1 (East Direction)
j. AAQM – 2 (West Direction)
k. AAQM – 3 (North Direction)
l. AAQM – 4(South Direction)

Table 7: Ambient Air Quality at Plant Area (Avg 2024-25)

S. No.	Location	PM 10 (µg/m³)	PM 2.5 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/ m³)
1	AAQMS -1	79.33	39.65	9.74	20.43	0.25

	(Near Main Gate)					
2	AAQMS-2 (Coal Dump Yard)	81.80	40.77	10.67	22.20	0.28
3	AAQMS – 3 (Railway Siding)	81.25	40.51	9.74	19.67	0.25
4	AAQMS – 4 (Clinker Yard)	81.16	40.53	10.21	21.02	0.26

Table 8: Ambient Air Quality at Mines Area (Mines Lease-I – 267.695 Ha.) (Avg 2024-25)

S. No.	Location	PM 10 (µg/m³)	PM 2.5 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)
1	Near Mines office	76.03	37.9	7.78	18.83	0.16
2	Towards North direction	76.27	37.98	7.79	18.80	0.17
3	Towards East direction	78.06	38.95	7.81	18.78	0.16
4	Towards South direction	76.53	38.17	7.47	18.01	0.17

Table-: Ambient Air Quality at Mines Area (Mines Lease -II- 252.105 Ha.) (Avg 2024-25)

S. No.	Location	PM 10 (µg/m³)	PM 2.5 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)
1	AAQM – 1 (Mine Office West Direction)	73.16	36.87	7.48	18.58	0.15
2	AAQM – 2 (Toward North Direction)	70.83	37.07	7.39	17.70	0.16
3	AAQM – 3 (Toward East Direction)	75.59	37.63	7.68	18.65	0.16
4	AAQM – 4 (Toward South Direction)	74.99	37.32	7.35	18.39	0.15

Table-: Ambient Air Quality at Mines Area (Mines Lease -III- 3.096 Ha.) (Avg 2024-25)

S. No.	Location	PM 10 (µg/m³)	PM 2.5 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	CO (mg/m³)
1	AAQM – 1 (East Direction)	76.33	38.50	7.82	19.07	0.17
2	AAQM – 2 (West Direction)	77.33	38.66	7.96	19.26	0.17
3	AAQM – 3 (North Direction)	77.93	38.93	7.94	19.38	0.18
4	AAQM – 4 (South Direction)	77	38.29	7.66	19.13	0.16

6.2.5 Ambient Noise levels

Ambient Noise levels are measured at 5 locations in the factory area and mines area on monthly basis. In addition, work zone noise levels are also monitored periodically. Noise levels are measured using sound level meter. The results of ambient noise levels are presented in table 9 & 10 which shows that the observed values are well within the permissible limits.

Table 9: Ambient Noise Levels at Plant Site 2024-25

S. No.	Location	Noise Levels in dB(A)	
		Day Time	Night Time
1	Boundary towards West direction	**58.4**	**47.1**
2	Boundary towards North-East direction	**56.6**	**46.8**
3	Boundary towards East direction	**58**	**46.9**
4	Boundary towards North direction	**57.7**	**46.5**
5	Boundary towards South-West direction	**57.2**	**46.3**

Table 10: Ambient Noise Levels at Mines Site 2024-25

S. No.	Location	Noise Levels in dB(A)	
		Day Time	Night Time
1	Near Mines office	56.8	46.2
2	Lease boundary towards North direction	57.7	47.1
3	Lease boundary towards East direction	58	47.5
4	Lease boundary towards South direction	56.3	46
5	Lease boundary towards South-East direction	57	45.5

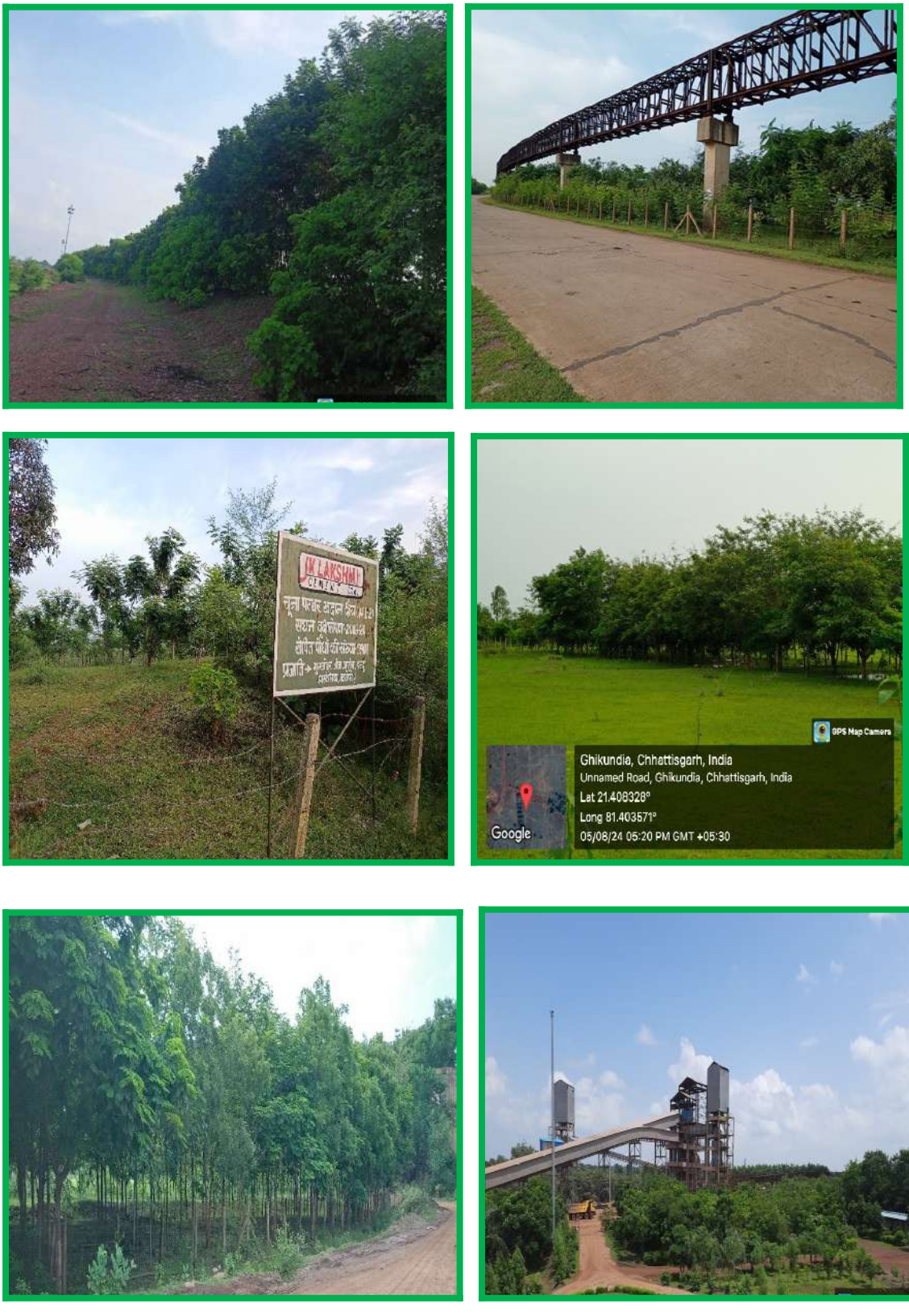
7. GREENBELT DEVELOPMENT:

We have dedicated team of skilled horticultural workers for plantation work with special reference to high density plantation (HDP) and green belt development program at our plant premises under the supervision of senior experienced person (Horticulture Officer). During 2024-25 total 11361 saplings are planted including 2000 saplings at plant premises and 9361 saplings at mines premises.

At present in our integrated cement plant our green belt is in 78.0 Ha. With 1,08,617 plants and in Mines we have planted 1,98,919. plants in 112.7 Ha. And the number is growing every year, in our Limestone mines area.




Green Belt Development at Plant area

Plantation at Mines area

7.1 In House Nursery at plant & Mines site :

PLANTATION DETAILS

Integrated Cement Plant Area

Year	Location	Quantity	Total of Year	Species	Area in hectare	Survival rate	Health of Plant
2011-12	NEAR ANAD BADI	2160	6280	MANGO, KATHAL, CHIKU, KACHNAR, GULMOHAR, CHITWAN,	1.9	**80%**	Good
	PLANTATION NEAR MAIN ROAD FROM MAIN GATE TO PACKING PLANT	2130		GULMOHAR, KACHNAR, SIRSA, KHAMHAR	1.9	**70%**	Good
	PLANATION AT GDCL COLONY	1460		ARJUN, GULMOHAR, KACHNAR	1.3	**75%**	Good
	PLANTATION NEAR ENVIRONMENT LAB	530		CHITWAN, KADAM, SIRSA, CHIKU, MANGO, GAVA, BADAM	0.5	**70%**	Good
2012-13	PLANTATION AT WATER TANK BOUNDRY WALL TO KHALSA YARD	1930	10556	KARANJ, JAMUN, GULMOHAR	1.7	**70%**	Good
	PLANTATION ALONG MAING GATE LEFT SIDE	3310		ARJUN, GULMOHAR, JAMUN, KARANJ, SISSUM, PELTA FORUM, SIRSA	3.0	**70%**	Good
	PLANTATION ALONG LIME STONE CONVEYER BELTS	1516		GULMOHAR, KACHNAR, PELTO PHORUM, CASSIA SEMIA	1.4	**75%**	GOOD
	PLANTAION NEAR CAR PARKING AREA	740		KADAM, ASHOK, GULMOHAR, BOTTLE PALM, CHITWAN	0.7	**70%**	Good
	PLANTATION ALONG THE BOUNDRY TOWARDS MALPURI VILLAGE	1630		KARANJ, GULMOHAR, SISRA, SISSUM	1.5	**75%**	Good
	PLANTATION AT NOTCH AREA	1430		GULMOHAR, KHAMHAR, SIRSA, NEEM	1.3	**70%**	Normal
2013-14	PLANTATION AT RABH OFFICE AREA	2157	10847	GULMOHAR, JAMUN, KARANJ, SISSUM, PELTA FORUM	1.9	**70%**	Good
	PLANTATION ALONG THE PLANT MAIN ROAD RIGHT SIDE	7460		ARJUN, SIRSA, KACHNAR, GULMOHAR, PELTO PHORUM, KARANJ	6.7	**75%**	Good

	PLANTATION ALONG THE GUEST HOUSE BOUNDRY WALL	1230		GULMOHAR, KHAMHAR, SIRSA, NEEM	1.1	**70%**	Good
	PLANTATION AT BOUNDRY WALL NEAR RAINWATER HARWESTING POND	4260		GULMOHAR, KARANJ, SISSUM, KARANJ, PELTA FORUM	3.8	**65%**	Normal
2014-15	PLANTATION AT BOUNDRY WALL FROM HAZIBABA YARD TO JAYASHREE BATCHING PLANT	2960	10800	KARANJ, JAMUN, GULMOHAR	2.7	**70%**	Normal
	PLANTATION NERA SEWAGE TREATMENT PLANT	3450		GULMOHAR, JAMUN, KARANJ, SISSUM, PELTO FORUM	3.1	**75%**	Good
	RAOD DIVIDER FROM MAIN GATE TO RABH	130		BOTTLE NECK PALM	0.1	**80%**	Good
	CANAL GATE AREA	5010		ASHOK, CHITWAN, PELTA FORUM	5.0	**75%**	Good
	PLANTATION ALONG COAL STORAGE SHADE	1340		GULMOHAR, PELTO PHORUM, CASSIA SEMIA, KHAMHAR, KAHCNAR	1.2	**70%**	Good
	PLANTATION NEAR CANTEEN AREA	363		ARJUN, PELTA PHORUM, GULMOHAR, CASSIA	0.3	**70%**	Good
	PLANTATION AT GYPSUM STORAGE YARD	1340		CHITWAN, PELTA PHORUM, GULMOHAR, CASSIA	1.2	**65%**	Normal
2015-16	PLANTATION AT PACKING PLANT AREA	3780	17665	KACHNAR, CASSIA SEMIYA, GULMOHAR, BAMBOO	3.6	**75%**	Good
	PLANTATION NEAR CCR BUILDING	1690		BOTTLE BRUSH, PALM, COCONUT, GULMOHAR, CASSIA, KACHNAR,	1.5	**80%**	Good
	PLANTATION NEAR SLAG MILL	160		PELTA PHRUM, KACHNAR, GULMOHAR	0.1	**70%**	Good
	PLANTATION NEAR GYPSUM HOPPER RAMP	860		CASSIA, CHITWAN, GULMOHAR	0.8	**70%**	Good
	PLANTATION AT COOLING TOWER	158		PELTA PHRUM, KACHNAR, GULMOHAR	0.1	**75%**	Good

	PLANTATION AT RABH CHIMNEY	278		PELTA PHRUM, KACHNAR, GULMOHAR	0.3	**80%**	Good
	PLANTATION AT NOTCH TO SLAG STORAGE SHED BOUNDRY	1390		GULMOHAR, KHAMHAR, SIRSA, KACHNAR	1.3	**70%**	Good
	HAJIBAWA OLD OFFICE TO SWITCH YARD	1296		GULMOHAR, KHAMHAR, SIRSA, NEEM	1.2	**65%**	Normal
	PLANT MAIN GATE TO NEW TRUCK PARTKING AREA RAOD	1370		ASHOK, GULMOHAR,CHITWAN, PELTA FORUM	1.2	**70%**	Good
	PLANTATION ALONG COAL DUMP HOPPER RAMP	175		JAMUN, PELTAFORUM, GULMOHAR	0.2	**70%**	Good
2016-17	PLANTATION AT CANAL GATE BOUNDARY AND POND SIDE	1232	5112	ASHOK, BOTTLE PALM, CHAMPA, BOTTLE BRUSH	1.4	**80%**	Good
	GOVT RAILWAY SIDE	60		GULMOHAR, NEEM, JAMUN,KACHNAR, DHANBAHAR	0.1	**76%**	Good
	NEAR OF GUEST HOUSE	535		JAMUN AAM, BAMBOO,GULMOHAR, NEEM	0.5	**80%**	Good
	BOUNDARY SIDE	1740		GULMOHAR, KACHNAR,KARANJ, ARJUN	1.8	**78%**	Good
	CRICKET GROUND	42		MOLSRI, PELTAFORUM & GULMOHAR	0.06	**65%**	NORMAL
	COAL DUMP HOPPER	818		MAHOGANI, SPATHODIA, ULMOHAR, PELTOFORUM, SIRAS, NEEM, ARJUN, BADAM SITAFAL	0.7	**75%**	Good
2017-18	SLAG STACKER & RECLAIMER SHED	1683	5776	NEEM, PELTOFORUM, MAHOGANI, SPATHODIA SIRAS, SHISHAM	1.9	**75%**	NORMAL
	GYPSUM DUMP HOPPER AREA	2040		SIRAS, ARJUN, SITAFAL, GULMOHAR, NEEM, SPATHODIA, C. SIAMEA, KARANJ, ARJUN, GULMOHAR, PELTOFORUM, ARJUN, GULMOHAR, PELTOFORUM, MAHOGANI, KARANJ, NEEM	1.9	**75%**	GOOD
	BOUNDARY FROM SLAG SHED TO MALPURI GATE	833		NEEM, PELTOFORUM, MAHOGANI, SPATHODIA SIRAS, SHISHAM	2.0	**70%**	Good

	BIS SECURITY BARACK	360		MOHGANI	0.8	**70%**	Good
	WAY TOWARDS CPP AREA	1500		BOTTLE BRUSH, PALM, COCONUT, GULMOHAR, CASSIA, KACHNAR,	1.5	75%	Good
2018-19	BESIDES CPP AREA	600	3650	PELTA PHRUM, KACHNAR, GULMOHAR	0.54	80%	Good
	BESIDES LIMESTONE STACKER AREA	1300		CASSIA, CHITWAN, GULMOHAR	1.4	75%	Good
	NEAR GUEST HOUSE	250		PELTA PHRUM, KACHNAR, GULMOHAR	0.22	80%	Good
	CAPTIVE POWER PLANT AREA	1492		NEEM, PELTAFORUM, AMALTASH, PLUMERIA ALBA, BOTTLE BRUSH, CONOCARPUS, XORA	1.6	80%	Good
2019-20	BESIDE FACTORY ROAD NEAR EYE POINT AREA	2082	3574	BOTTLE BRUSH, CONOCARPUS, THUJA, NEEM, KACHNAR,GULMOHAR, JAMUN	2.4	80%	Good
	Captive Power Plant Area	1426		Neem, Semal, Jamun, Acassia mangium, Peltaforum, Gulmohar	0.4	73%	Good
2020-2021	Near Truck Parking Area	194	1700		0.2		
	Near Eye Point(On the Occasion of World Environment Day	680		Bargad, Acassia Auriculiformis, Acassia Mangium	0.7		
	CPP area	1475		Neem, ficus, , Gulmohar, Conocorpus, tabbubia	**1.5**	80%	Good
	Near Solar Plant	140		Ficus,	**0.1**	80%	Good
	Eye Point	323	4274	Ficus, Chandni, Kachnar, Gulmohar, Auriculiformis, Peltaforam	**0.3**	80%	Good
2021-22	Cricket ground area	206		Neem, ficus, , Gulmohar, Conocorpus, tabbubia	**0.2**	80%	Good
	Along with road of CPP	814		Ficus, Chandani, Kachnar, Gulmohar	**0.9**	80%	Good
	Packing Plant	1023		Auriculiformis, Kachnar bougen Bela	**1.5**	80%	Good

	Killn mill road side	153		Conocarpus,	**0.4**	80%	Good
	Near OHC Temple	140		Ramphal, Apple Ber, Lemon, Mango, Guava	**0.2**	80%	Good
2022-23	Worker Colony area	716	1196	Gulmohar, Kachnar	**0.6**	80%	Good
	Eye point area	480		Gulmohar, Kachnar Neem, Ficus, tabbubia	**0.4**	80%	Good
2023-24	Gap filling plantation work	**218**		Neem, Ficus, tabbubia, sisam		80%	Good
	As per Evaluation report of plantation by Society for Environment development is Till 2023-24	**108617**			**78.0**	80%	Good
2024-25	Plant premises area	**2000**		Neem , Jackfruit, Guava , Conocarpus	**0.8**	80 %	Good

PLANTATION DETAILS

Lime Stone Mines Area

Year	Location	Quantity	TOTAL OF YEAR	SPECIES	AREA IN HECTARE	SURVIVAL RATE	Health of Plant
	HARDI ROAD LEASE BOUNDRY	3200		GULMOHAR, SISSUM, KARANJ	2.9	70%	Good
2011-12	FRUIT GARDEN NEAR MINES OFFICE	1784	7814	JAMUN, MANGO, AMLA	1.6	80%	Good
	PLANTATION AT LAKSHMI VATIKA FRUIT GARDEN	2830		BADAM, AMLA, SEHTUT, JAMUN, AMLA, CHIKU, LEMON, GAVA, CHITWAN, SIRSA, NEEM, KATHAL	2.5	75%	Good

2012-13	MINES OFFICE NURSERY AREA	3130	6590	JAMUN, GULMOHAR, SIRSA, KARANJ, SISSUM, NEEM	2.8	70%	Good
	MACAZINE AREA	3460		GULMOHAR, JATORFA, KARANJ, SISSUM	1.1	65%	Normal
	PLANTATION NEAR BARGAD TREE AREA	2220		SISSUM, KARANJ, KACHNAR	2.0	75%	Good
2013-14	BLOCK PLANTATION -1 ALONG PIPE CONVEYER	7800	11170	KACHANAR, SISSUM, CASSIA, PELTAFORUM, KARANJ, SIRSA, ARJUN	7.0	60%	Normal
	PLANTATION NEAR CRUSHER	1150		COCONUT, CHITWAN, PELTA FORUM	1.0	70%	Good
	LIMES STONE CRUSHER RAMP	2130		SIRSA,SISSUM, GULMOHAR,KARANJ, KACHNAR	1.9	70%	Good
2014-15	NANDINI ROAD	2240	10170	SISSUM, GULMOHAR	2.0	75%	Good
	BLOCK PLANTATION -2 ALONG PIPE CONVEYER	5800		SISSUM, CASSIA,GULMOHAR, KACHANAR, PELTAFORUM, KARANJ, SIRSA, ARJUN	5.2	70%	Normal
	MINES LC-01	2650		GULMOHAR, SISSUM, KARANJ, KACHNAR	2.4	70%	Good
	PLANTATION NEAR ASSEBLY POINT	1810		ASHOK, CHITWAN, PELTA FORUM	1.6	75%	Good
2015-16	BLOCK PLANTATION -3 ALONG PIPE CONVEYER	3700	10020	SISSUM, CASSIA, KACHANAR, GULMOHAR PELTAFORUM, KARANJ, SIRSA, ARJUN	3.3	70%	Good
	MINES WEIGH BRIDGE AREA	1860		GULMOHAR, SIRSA, SISSUM, KARANJ	1.7	70%	Good
	PLANTATION NEAR CRUSHER RAMP TTO WEIGH BRIDGE	7680		NEEM, ARJUN, SISSUM, CASSIA, KACHANAR, GULMOHAR, PELTAFORUM, KARANJ, SIRSA	7.0	75%	Good
2016-17	PLANTATION AT LEASE BOUNDRY TOWARDS NANDANI VILLAGE	1126	11409	GULMOHAR, SIRSA, SISSUM, KARANJ	1.0	75%	Normal
	PLANTAION AT SEMERIA MINES BOUDARY	2603		GULMOHAR, KACHANAR	2.4	73%	Normal

	BOUNDARY TOWARDS NANDINI KHUNDINI VILLAGE 5 JUNE 17	5800		JAMUN, ARJUNE,KARANZ, KESIA, KACHNAR, CHITWAN, UKELIPTUS NEEM AMRUD, AWALA, GULMOHAR, PELTRAFORM, SHIRSA, SHISHU, KHAIR	5.3	70%	Good
2017-18	MINES ROAD PIPE CONVEYER AREA	8052	20712	RJUNE,KARANZ, CASSIA, KACHNAR, CHITWAN, NEEM AMRUD, AWALA, GULMOHAR, PELTRAFORM,	7.3	75%	Good
	MININIG LEASE BOUNDRY	6860		JAMUN, ARJUNE,KARANZ, CASSIA, KACHNAR, CHITWAN, NEEM AMRUD, AWALA, GULMOHAR, PELTRAFORM,	6.2	70%	Normal
	MINING LEASE AREA ON WORLD ENVIRONMENTAL DAY	3028		NEEM, ARJUNE, JAMUN	2.7	75%	Good
	MINING LEASE AREA Near PIPE CONVEIR SIDE	4327		SISSUM, CASSIA,GULMOHAR, , SIRSA, MINI GULMOHAR, NEEM, HALDU, RAIN TREE	3.8	75%	Good
2018-19	MINING LEASE AREA, NEAR LOADING HOPER SIDE	2658		MINI GULMOHAR, AKESIA, HALDU, NEEM, GULMOHAR, SISAM, RAINTREE, SIRSA, AKESIA .	2.3	73%	Good
	WAY TOWARDS MINES NEAR PITAURA (BSP) MINES AREA	5000	15028	HALDU, NEEM, JAMUN, AWALA, GULMOHAR,	4.5	72%	Good
	WORLD ENVIRONMENAL DAY PLANTATION AT ML-1	3980		PELTOFORUM, NEEM, JAMUN, HALDU, ARJUN	3.6	80%	Good
2019-20	PLANTATION AT ML-1	1603	11484	CASIA SAMIYA, KARANJ, SAMI, PELTOFORUM, KACHNAR, JAMUN	1.4	80%	Good
	ML-2 AT HARDI NALA AREA	5901		PELTOFORUM, NEEM, JAMUN, HALDU, ARJUN, JETROPA	5.3	80%	Good
	Near Semariya Pond (ML-1)	4526		Neem, Peltaforum, Karanj, Mahua,Semal, Jamun, Siras, Bel,	4	80%	Good
2020-2021	Hardi Road Side (ML-2)	3790	8316	Neem, Peltaforum, Karanj, Mahua,Semal, Jamun, Siras, Bel, Karanj	3.4	80%	Good

2021-22	Mines New Building	903	5796	Neem, Peltaforum, Karanz, Mauha, Semal, Jamun, Sirsa, Bell	**0.8**	80%	Good
	Old Car Parking	423		Sisam, Kesia, Gulmohar, Sirsa, Mini-gulmohar, Neem, Haldu, Raintree	**0.4**	80%	Good
	Pipe Conveyor	1799		Neem, Arjun, Jamun	**1.6**	80%	Good
	ML 1 (Near Semariya Nala)	1460		Jamun, Arjun, Karanz, Keshiya, Kachnar, Chitwan, Ukeliptus , Neem, Amrud, Anwala, Gulmohar, Peltaforam, Sirsha, Shishu, Khair	**1.3**	80%	Good
	Pipe Conveyor	691		Sirsa, Shisham Gulmohar, Kachnar, Karanz,	**0.6**	80%	Good
	Semariya Mines (ML 3)	520		Neem, Gulmohar	**0.5**	80%	Good
	As per evaluation report total plantation 2021-22	**184097**					
2022-23	Near Semariya Mines - 5th June 2022 -Env Day Plantation	1019	6573	Neem , Kachnar, Sirsa	0.9	80%	Good
	ML-1 A Block and B Block	4156		Nneem , Kachnar, Karanj,	3.7	80%	Good
2023-24	ML -1 B BLOCK	1398	2986	Sisum, Neem , Kachnar, , Gulmohar	1.3	80%	Good
	ML1,B Block	1796			1.4	80%	Good
	Plantation undrer CSR activity at near by villages (Sandi, girhola, malpuri-khurd,)	1190			1.1	80%	Good
	As per Evaluation report of plantation by Society for Environment development is Till 2023-24	**193656**					

2024-25	Plantation at b Block area 5 june 2024	9361	Gulmohar, R. Cassia, Mahaneem, Plum, Neem, Karj, Kachnar, Banyan, Almond, Cashew Mango, Jamun, Custard Apple, Guava, Ficus, Amla, Lemon, Jackfruit, Kuresia, Sirsa, China Palm.	3.9		
	Total Plantation	203017		112.7		

8. RAIN WATER HARVESTING

8.1 Rainwater harvesting Initiatives by JK Lakshmi Cement Ltd.

Groundwater is a precious commodity with limited extent and the water demand in India is under tremendous stress. The increased water demand due to uncontrolled population growth leads to over exploitation of ground water which exceeds the recharge rate. Considering the importance of water JK Lakshmi Cement Ltd., Durg has taken an initiative to recharge the rain water by installation of 53 No of rain water harvesting units to improve the ground water level of the surrounding area. Details of the units based on various patented rain water harvesting techniques installed at plant and mines area are given below

- Total 12 nos. of rain water harvesting unit designed in house by JK Lakshmi Cement Ltd.
- Total 8 nos. of (patented) rain water harvesting unit designed by Furaat Earth Pvt. Ltd. Ahmadabad, Gujarat.
- Total 30 nos. of (patented) rain water harvesting unit designed by Kedia Rainwater Harvesting Pvt. Ltd. Aurangabad MH.
- One unit by conventional rain water harvesting system constructed at mine area.
- Total 2 nos. of rain water conservation ponds are constructed one at plant and one at mines mine.

The location and the details of the unit are given below;

A. Rain water harvesting unit designed JK Lakshmi Cement Ltd., Durg - 09 No

1. Lakshmi Vatika Unit RWH/JKLC/01 –
2. Back Side of Jayshree office plant (Khapri Village area) RWH/JKLC/03
3. Jayshree Batching Plant Unit (Khapri Village area) RWH/JKLC/03 –
4. Workers colony JKLC Unit RWH/JKLC/04
5. RABH Building JKLC Unit (Girhola Village area) RWH/JKLC/05
6. Coal Storage Shed JKLC Unit RWH/JKLC/06
7. Lime Stone Storage Shed JKLC Unit RWH/JKLC/07
8. Slag Storage Shed JKLC Unit (Malpuri Village area) RWH/JKLC/08
9. South east Gate area JKLC Unit RWH/JKLC/09
10. Captive power plant area RWH/JKLC/10
11. Limestone stacker RWH/JKLC/11
12. Slag shed RWH/JKLC/12-

13. B. Rain water harvesting unit designed by Furaat Earth Pvt. Ltd Ahmadabad – 07 No.

1. Store and Accounts building area Unit
2. Hajibawa Worker Colony Unit
3. Workers worker Colony-
4. Fruit Garden at plant main gate –
5. North East Side of Plant (At batching plant)
6. Plant site towards South east direction
7. Mine area towards Nandini Village

C. RWH through Conventional Ground Water Recharge - 1 No. (Mines Area)

D. Rain water harvesting by KFP structures - 30 No (Plant & Mines Area)

E. Rain water Harvesting by Rainwater conservation pond - 2 No.

1. Rainwater conservation pond at plant –
2. Rainwater conservation pond at Mines-

Total rain water harvesting by JK Lakshmi Cement Ltd. = 1583038 m^3/year at the average of rainfall 960 mm.

9. ENVIRONMENT AWARENESS

9.1 World Environment Day Celebration

JK Lakshmi Cement celebrates the world environment day every year on 5th June. Based on the theme various environment awareness programs are being conducted for workers, employees and Family members.

The various competitions organized during the occasion are stated below

- Quiz Competition for employees, workers & School/College Students
- Poster & Slogan Competition for employees, workers & Childrens
- Plantation program organized at Govt Primary Health Centre Ahiwara and JKLC Mine Site.

9.1.1 Plantation

On the occasion of world environment day plantation program organized for the workers and employees. The plantation program was started with the sampling by Shri Mukul Srivastava . (Sr. Vice President- works). During the plantation program more than 1019 sampling planted in a single day by Employees and workers.

CERTIFICATES

1. ISO 45001 CERTIFICATION

TÜV NORD

CERTIFICATE

Management system as per
ISO 45001 : 2018

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

JK LAKSHMI CEMENT LTD
Village- Malpuri Khurd, Khasadih,
P.O.-Ahiwara, Tehsil-Dhamdha, Distt. Durg,
Chhattisgarh - 490 036,
India
with the locations according to the annex

operates a management system in accordance with the requirements of ISO 45001 : 2018 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Manufacture and Dispatch of Clinker & Cement and Mining of Lime Stone From JK Lakshmi Cement Limestone Mine ML-1, ML-2 and Semariya Limestone Mine For Captive Use.

Certificate Registration No. **44 128 16381116**
Audit Report No. **2.6-7317/2018**

Valid from **28.10.2022**
Valid until **17.10.2025**
Initial certification **18.10.2016** (BS OHSAS 18001)

Certification Body
at TÜV NORD CERT GmbH

Mumbai, **28.10.2022**

TÜV NORD CERT GmbH Am TÜV 1 45307 Essen www.tuev-nord-cert.com

TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in

IAF DAkkS

ISO 14001 CERTIFICATION

TÜV NORD

CERTIFICATE

Management system as per

ISO 14001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

JK LAKSHMI CEMENT LTD
Village- Malpuri Khurd, Khasadih,
P.O.-Ahiwara, Tehsil-Dhamdha, Distt. Durg,
Chhattisgarh - 490 036,
India
with the locations according to the annex

operates a management system in accordance with the requirements of ISO 14001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Manufacture and Dispatch of Clinker & Cement and Mining of Lime Stone From JK Lakshmi Cement Limestone Mine ML-1, ML-2 and Semariya Limestone Mine For Captive Use.

Certificate Registration No. 44 104 16381116
Audit Report No. 2.6-7317/2018

Valid from 28.10.2022
Valid until 17.10.2025
Initial certification 18.10.2016

Certification Body
at TÜV NORD CERT GmbH

Mumbai, 28.10.2022

TÜV NORD CERT GmbH Am TÜV 1 45307 Essen www.tuev-nord-cert.com

TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in

IAF DAkkS

ISO 9001 CERTIFICATION

TÜV NORD

CERTIFICATE

Management system as per

ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

JK LAKSHMI CEMENT LTD
Village- Malpuri Khurd, Khasadih,
P.O.-Ahiwara, Tehsil-Dhamdha, Distt. Durg,
Chhattisgarh - 490 036,
India
with the locations according to the annex

operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Manufacture and Dispatch of Clinker & Cement and Mining of Lime Stone From JK Lakshmi Cement Limestone Mine ML-1, ML-2 and Semariya Limestone Mine For Captive Use.

Certificate Registration No. 44 100 16381116
Audit Report No. 2.6-7317/2018

Valid from 28.10.2022
Valid until 17.10.2026
Initial certification 18.10.2016

Certification Body
at TÜV NORD CERT GmbH

Mumbai, 28.10.2022

TÜV NORD CERT GmbH Am TÜV 1 45307 Essen www.tuev-nord-cert.com

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ISO 50001 CERTIFICATION

TÜV NORD

CERTIFICATE

Management system as per
ISO 50001 : 2018

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

JK LAKSHMI CEMENT LTD
Village- Malpuri Khurd, Khasadih,
P.O.-Ahiwara, Tehsil-Dhamdha, Distt. Durg,
Chhattisgarh - 490 036,
India
with the locations according to the annex

operates a management system in accordance with the requirements of ISO 50001 : 2018 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Manufacture and Dispatch of Clinker & Cement and Mining of Lime Stone From JK Lakshmi Cement Limestone Mine ML-1, ML-2 and Semariya Limestone Mine For Captive Use.

Certificate Registration No. **44 784 180817**
Audit Report No. **2.6-7317/2018**

Valid from **28.10.2022**
Valid until **08.10.2025**
Initial certification **08.10.2018**

Certification Body
at TÜV NORD CERT GmbH

Mumbai, **28.10.2022**

TÜV NORD CERT GmbH Am TÜV 1 45307 Essen www.tuev-nord-cert.com

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