

AC/DVP/ENV/
25th September 2025

To,
Member Secretary,
Telangana Pollution Control Board,
Paryavaran Bhavan, A-3, Industrial Estate, Sanathnagar,
Hyderabad – 500018, Telangana.
Contact: 040-23887500

Sub: Environmental Statement (FORM-V) under Rule No. 14 of Environment (Protection) Rules, 1986 and amendments thereof for the period of FY2024-25 for our Cement Plant & Captive Power Plant - Reg.

Ref: 1. CFO & HWA Order No. 220823604135, Dated 13.06.2022.
2. Amendment Order No. TSPCB/CFO/RO-NZB/HO/2022, Dated 05.08.2022.
3. Amendment Order No. TSPCB/220823604135/CFO/RO-NZB/HO/2023, Dated 21.03.2023.


Dear Sir,

We are herewith submitting Environmental Statement in FORM-V under Rule No. 14 of Environment (Protection) Rules, 1986 and amendments thereof for the period of FY2024-25 for our Cement Plant & Captive Power Plant located at Devapur (V), Kasipet (M), Mancherial District, Telangana.

This is for your kind information and record please.

Thanking you,

Yours faithfully
For Orient Cement Limited, Devapur Works



Bala Giridhar
Unit Head

Encl: A/a

CC: Environmental Engineer,
Telangana Pollution Control Board,
Regional Office,
H. No. 6-2-166/A, 1st Floor, Subhash Nagar,
Nizamabad - 503002, Telangana.
Contact: 08462-237774

FY 2024-25

FORM-V (Environmental Statement)



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Cement

Orient Cement Limited

Devapur Village, Kasipet Mandal,
Mancherla District, Telangana - 504218

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Environmental Statement for the financial year ending with 31st March 2025

PART – A

1. Name and address of the owner/ occupier of the industry operation or process.	: Bala Giridhar Unit Head Orient Cement Limited Devapur Village, Kasipet Mandal, Mancherla District, Telangana – 504218
2. Industry category	: Primary STC Code: NA Secondary STC Code: NA
3. Production capacity	: 1. Clinker – 3.5 MTPA 2. Cement – 3.07 MTPA 3. Electricity – 2X25 MW Captive Power Plant
4. Year of establishment	: 1982
5. Date of the last environmental statement submitted	: 27 th August 2024

PART – B
WATER AND RAW MATERIAL CONSUMPTION

1. Water Consumption (m³/day)		
i.	Process & Washings	: 1516
ii.	Boiler Feed/ Boiler (Makeup)/ Cooling (Makeup)/ Humidification/ Water Spraying	: 165
iii.	Domestic	: 492

Name of Products	Process Water Consumption per unit of product output	
	During the previous financial Year 2023-24	During the current financial Year 2024-25
i. Clinker	0.191 m ³ /MT	0.250 m ³ /MT
ii. Cement	0.238 m ³ /MT	0.294 m ³ /MT
iii. Electricity (2 X 25 CPP)	0.346 m ³ /MW	0.322 m ³ /MW

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2. Raw Material Consumption - MT/MT of Product

*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial Year 2023-24	During the current financial Year 2024-25
i. Limestone	Clinker	1.412	1.408
ii. Additives	Clinker	0.074	0.094
iii. Coal	Clinker	0.114	0.107
iv. Petcoke	Clinker	0.017	0.019
v. Gypsum	Cement	0.029	0.029
vi. Flyash	PPC Cement	0.329	0.326
vii. Coal	Electricity	0.867 MT/MW	0.722 MT/MW

**Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.*

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF PRODUCT
(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/L)	Percentage of variation from prescribed standards with reasons
A. Water			
Effluent Water: There is no effluent generation from Cement Manufacturing Process			
Effluent Water from Captive Thermal Power Plant: Details mentioned below			
1. pH	-NA-	7.6	Within the Limits
2. Total Suspended Solids	1.0	37.4	-62.6
3. Total Dissolved Solids	40	1506	-28.3
4. Oil & Grease	Nil	<1.0	Within the Limits
5. Biochemical Oxygen Demand	0.2	8.9	-91.1
6. Chemical Oxygen Demand	2.4	89.0	-64.4

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Pollutants	Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/L)	Percentage of variation from prescribed standards with reasons
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A. Water

Domestic Sewage Treated Water: Details are mentioned as below

1. pH	-NA-	7.7	Within the Limits
2. Total Suspended Solids	4.6	47.5	-52.5 %
3. Oil & Grease	0.04	0.37	-96.3 %
4. Biochemical Oxygen Demand	1.4	13.9	-53.6 %

Pollutants	Quantity of Pollutants Discharged (Kg/day)	Concentrations of Pollutants in Discharges (mg/Nm ³)	Percentage of variation from prescribed standards with reasons
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B. Air

i. Kiln-1 PM	165.4	21.25	-29.2
ii. Kiln-2 PM	128.2	19.10	-36.3
iii. Kiln-3 PM	169.6	17.56	-41.5
iv. Cooler-1 PM	56.3	17.93	-40.3
v. Cooler-2 PM	9.8	15.60	-48.0
vi. Cooler-3 PM	62.9	17.41	-42.0
vii. Coal Mill-1 PM	7.5	15.64	-47.9
viii. Coal Mill-1 VRM PM	10.7	16.08	-46.4
ix. Coal Mill-2 PM	68.6	16.90	-43.7
x. Coal Mill-3 PM	29.3	14.97	-50.1
xi. Cement Mill-1 PM	10.3	18.02	-39.9
xii. Cement Mill-2 PM	21.7	18.05	-39.8
xiii. Kiln-1 SO ₂	30.4	3.91	-96.1
xiv. Kiln-2 SO ₂	0.0	0.00	-100.0
xv. Kiln-3 SO ₂	30.8	3.19	-96.8
xvi. Kiln-1 NO _x	2539.3	326.30	-67.4
xvii. Kiln-2 NO _x	2293.6	341.60	-57.3
xviii. Kiln-3 NO _x	2737.9	283.41	-64.6
xix. CPP PM	255.9	33.03	-34.0
xx. CPP SO ₂	2070.8	267.19	-55.5
xxi. CPP NO _x	631.6	81.50	-72.8

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**PART - D
HAZARDOUS WASTE**

As specified under
Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Hazardous Waste	Total Quantity, MT	
	During the current financial Year 2023-24	During the current financial Year 2024-25
A. From Process		
i. Used Oil (5.1)	35.47	8.39
ii. Waste Oil / Furnace Oil Sludge (5.2)	7.16	10.0
iii. Oil-Soaked Cotton (5.2)	3.42	6.06
B. From Pollution Control Facilities	Nil	Nil

**PART - E
SOLID WASTES**

Solid Waste	Total Quantity, MT	
	During the current financial Year 2023-24	During the current financial Year 2024-25
A. From Process	Nil	Nil
B. From Pollution Control Facilities		
i. PCEs Dust	100% Recycled into process	100% Recycled into process
ii. Flyash (CPP)	90,709	69,737
C.		
i. Quantity recycled or re-utilized within the unit	NA	NA
ii. Sold	NA	NA
iii. Disposed	NA	NA

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PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Sl. No	Type of Wastes Generated / Handling	Nature of Waste	Disposal Pathway
1	Used Oil (5.1 of Schedule-I)	Hazardous	Authorized Re-processors / Recyclers / Internal consumption for lubrication purpose.
2	Waste Oil / Furnace Oil Sludge (5.2 of Schedule-I)	Hazardous	Authorized Re-processors / Recyclers / Internal consumption for lubrication purpose.
3	Oil-Soaked Cotton (5.2 of Schedule-I)	Hazardous	Co-Processing in the Cement Kiln
4	Lead Acid Batteries	Batteries	Authorized recycler & Buyback to vendors
5	E-Waste	E-Waste	Disposed to Authorized Recycler
6	ESP & Bag House Dust	Solid	Recycle back in to the process
7	Flyash from CPP	Solid	Using in manufacturing of PPC cement
8	Bio Medical Waste from OHC	Bio-Medical	Authorized Incinerators/ CBWTF
9	Liquid Waste - Effluent	Effluent	Treating & using for ash quenching/ dust suppression
10	Liquid Waste - Sewage	Sewage	Treating in STP & using for greenbelt
11	Alternative Fuels	Hazardous	Co-Processing in Cement Kilns
12	Burst PP/HDPE Bags	Plastic	Co-Processing in Cement Kilns

Sl. No	Type of Wastes Generated / Handling	Nature of Waste	Generated/Disposed Quantity, FY2024-25
1	Used Oil (5.1 of Schedule-I)	Hazardous	8.39 MT
2	Waste Oil / Furnace Oil Sludge (5.2 of Schedule-I)	Hazardous	10.00 MT
3	Oil-Soaked Cotton (5.2 of Schedule-I)	Hazardous	6.06 MT
4	Lead Acid Batteries	Batteries	Nil MT
5	E-Waste	E-Waste	1.59 MT
6	ESP & Bag House Dust	Solid	100% Recycled
7	Flyash from CPP	Solid	69,737 MT
8	Bio Medical Waste from OHC	Bio-Medical	27.69 Kg
9	Liquid Waste – Effluent (CPP)	Effluent	9,683 KL
10	Liquid Waste - Sewage	Sewage	35,607 KL
11	Alternative Fuels	Hazardous	212.17 MT
12	Burst PP/HDPE Bags	Plastic	18.67 MT

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PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- At Orient Cement, efficient resource consumption is a priority, and the Company ensures optimal utilization of raw materials. To ensure conservation of natural resources, consistently consumed low-grade limestone (~28%) through an optimization of Raw mix & Fuel mix process. While ensuring that the quality of clinker and cement produced meets the highest quality standards.
- We have been treating effluent from CPP & Domestic sewage from residential colony to confirm the prescribing standards and then using for greenbelt development, dust suppression and ash quenching. Thus, the same amount of fresh is being conserved.
- Air Pollution Control Equipment such as Baghouse, RABH, ESPs and Jet Pulse Filters are designed to control the particulate matter emissions below 30 mg/Nm³ from any of the stationery sources from Cement Plant & CPP. All these APCEs are very effective in arresting and putting back the recovered material (Dust) into the production line thus preventing the raw material, fuel, intermediate & finished products from getting lost in the atmosphere.
- We have been undertaken various energy efficiency improvement measures & process optimization which helped to significantly reduce the overall energy consumption to reduce carbon footprints. Thus, the pollution abatement & other energy conservation practices adopted by us save precious raw material/ fresh water and help in conserving natural resources.
- Further, we are using hazardous & nonhazardous Alternative Fuels & Raw Materials (AFR) from various other industries/ industrial sectors in cement manufacturing process to conserve the naturally sources coal and other raw materials. We have achieved 13.36% of thermal substitution rate (TSR) by using the following AFR for FY25.

Sl. No	Description of AFR	Quantity in MT, FY2024-25
1	Agro Waste (Rice Husk, Corn cob, etc.)	58976.7
2	Carbon Black	18373.0
3	Hazardous Waste (Liquid & Other)	212.2
4	Municipal Waste (RDF)	70.5
5	Plastic Waste	18.7
Total		77561.0

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PART – H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- Greenbelt development is being carried out in a phased manner with local and native plant species. As of date, 57% of the total area developed with green cover.
- Fugitive dust emission control measures are in place such as deployment of road sweeping machines, closed material conveying system, raw material and finished products are stored in closed sheds and silos, all the material transfer points & silo tops are provided with bag filter, pneumatic handling of flyash and water spraying on the material yards and roads.
- Adequate funds are earmarked for environmental management activities. Capital and recurring expenditure incurred for the same period FY2024-25 is tabulated as below.

Sl. No	Nature of Revenue/ Recurring Expenditure	Amount incurred in Lakh Rs.
1	Operation & Maintenance of PCEs	122.17
2	Electrical Power Cost of PCEs (APCEs & STP)	752.29
3	Environmental Monitoring Charges	6.93
4	Operation & Maintenance of STP	9.39
5	Operation & Maintenance of CAAQM, CEMS & CEQMS	13.13
6	Operation Cost of Road Sweeping Machines	27.06
7	Bio Medical Waste Disposal Charges	0.94
8	Environmental Awareness & Trainings	0.34
9	Ash Compliance Audit	0.41
10	Plastic EPR Compliance	9.97
11	Ground Water Extraction Charges paid to Govt.,	18.20
Total		960.84

Sl. No	Nature of Capex/ Capital Expenditure	Amount incurred in Lakh Rs.
1	Sewage Treatment Plant with collecting system	166.99
2	Piezometers with telemetry	2.23
Total		169.22

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Additional Measures Proposed for Environmental Protection

The Company ensures that profitability is not achieved at the cost of sustainability, focusing on strengthening its socio-economic, environmental and governance pillars. By 2030, it aims to attain a 25% Thermal Substitution Rate (TSR) and 50% of the total energy to come from renewable energy & WHRS. Aligning with India's commitment to becoming Net Zero by 2070, the Company is aspiring to become Net Zero for both Scope 1 and 2 emissions by 2070.

- Reducing specific Thermal Energy.
- Reducing specific Electrical Energy.
- Reducing the Clinker Factor
- Enhancing the Thermal Substitution Rate.
- Increasing utilization of low-grade limestone.
- Embracing secondary CO₂ abatement measures i.e., Carbon Capture Utilization and Sequestration (CCUS).
- Improving use of recycled water
- Reducing the specific water consumption
- Amplifying the employ of Renewable and WHRS energy.
- Consistently adopting new technologies
- Conducting various awareness campaigns on Environmental & Sustainability aspects.

PART – I

Any other particulars for improving the quality of the environment.

- We have full-fledged Environmental Section to deal with monitoring & measurement of environmental parameters, compliance tracking , Green Belt development, operation and maintenance of CAAQMS & CEMS and STP Operations.
- We are having NABL accredited laboratory for quality parameters analysis.
- All the Air Pollution Control Equipment (APCE) is effectively operated and maintained for controlling the emissions below the prescribed standards.
- Installation of new APCEs wherever required for controlling dust emissions.
- Covered sheds and silos have been constructed for raw material & finished products storage handling to control fugitive emissions.

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- Practicing Zero Liquid Discharge (ZLD) from our premises.
- Adopted Integrated Management System, which includes ISO 14001:2015 Environment Management Systems, ISO 9001:2015 Quality Management System and ISO 45001:2018 Occupational Health and Safety Management System & ISO 50001:2018 for Energy Management System.
- Strengthening of existing greenbelt by increase in density and plantation of saplings.
- Organizing various environmental awareness activities to sensitize the employees and nearby communities.
- Compliance with new environmental regulations.

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Environmental Statement for the financial year ending with 31st March 2025

Annexure-1
Production Details

Products Manufactured		
Description of Product	Consented Capacity, MT	Production Quantity in MT
Clinker	35,00,000	20,02,046
Cement (OPC +PPC)	30,70,000	17,01,211
Electricity Generation from CPP	2 X 25 MW	1,69,077
Synthetic Gypsum	31,000	Nil

Annexure-2
Ambient Air Quality Monitoring Data

Parameters	Limits	Near Time office	Near Mines office	NORTH, Stores	SOUTH, Guesthouse
PM10	100	62.6	60.3	68.7	56.4
PM2.5	60	24.1	22.2	28.2	20.4
SO ₂	80	9.8	7.5	11.0	7.5
NO ₂	80	20.8	18.1	22.4	18.0
Lead (Pb)	1.0	0.1	0.1	0.1	0.1
Carbon Monoxide mg/m ³	02	BDL	BDL	BDL	BDL
Ammonia (NH ₃)	400	BDL	BDL	BDL	BDL
Ozone (O ₃)	100	7.5	7.5	7.5	2.5
Benzene (C ₆ H ₆)	05	<0.02	<0.02	<0.02	<0.02
Arsenic (As) ng/m ³	06	ND	ND	ND	ND
Nickle (Ni) ng/m ³	20	ND	ND	ND	ND
Benzo Pyrene (Bap) ng/m ³	01	ND	ND	ND	ND

All the values are expressed in µg/m³ except mentioned.

BDL – Below Detectable Limits

ND – Non-Detectable

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[Annexure-3](#)

Stack Emission Monitoring Data

Stack Attached to	Limits	PM Emissions
Kiln-I & Raw mill-I	30	21.25
Kiln-II & Raw mill-II	30	19.10
Kiln-III & Raw mill-III	30	17.56
Cooler-I	30	17.93
Cooler-II	30	15.60
Cooler-III	30	17.41
Coal Mill-I	30	15.64
Coal Mill-I VRM	30	16.08
Coal Mill-II	30	16.90
Coal Mill-III	30	14.97
Cement Mill-I	30	18.02
Cement Mill-II	30	18.05
CPP	50	33.03

Stack Attached to	Limits	NOx Emissions
Kiln-I	1000	326.30
Kiln-II	800	341.60
Kiln-III	800	283.41
CPP	450	81.50

Stack Attached to	Limits	SO2 Emissions
Kiln-I	100	3.91
Kiln-II	100	0.00
Kiln-III	100	3.19
CPP	600	267.19

All the values are expressed in mg/Nm³.

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Annexure-4

Effluent & Sewage Quality Monitoring

Treated Effluent Parameters (CPP)	UoM	Limits	Average Measured Concentration
PH	--	6.5-8.5	7.6
Total dissolved solids	mg/l	2100	1506.0
Total Suspended solids	mg/l	100	37.4
Chemical oxygen demand	mg/l	250	89.1
Biochemical oxygen demand (3 Days at 27°C)	mg/l	100	8.92
Oil & Grease	mg/l	10	<1.0

Treated Sewage Parameter	UoM	Limits	Average Measured Concentration
PH	--	6.5-9.0	7.7
Total dissolved solids	mg/l	2100	636.0
Total Suspended solids	mg/l	100	47.5
Chemical oxygen demand	mg/l	250	116.9
Biochemical oxygen demand	mg/l	30	13.9
Oil & Grease	mg/l	10	0.37
Fecal coliform per 100 ml	--	Absent	Absent

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[Annexure-5](#)

Ambient & Workplace Noise Monitoring Data

Ambient Monitored Location	Noise Levels in Leq dB(A)			
	Day Time		Nighttime	
	Monitored Value	Limits	Monitored Value	Limits
East Side Boundary	63.0	75	58.0	70
West Side Boundary	60.8	75	55.7	70
North Side Boundary	63.9	75	58.8	70
South Side Boundary	62.7	75	57.8	70
Township near STP	62.1	75	57.3	70

Work zone Location	Limits	Noise Levels in Leq dB(A)
Kiln- 1 & 2	85	73.2
Raw Mill-1 & 2	85	75.0
Compressors	85	82.3
Cement Mill-1 & 2	85	79.1
Crusher	85	82.2
Kiln-3	85	82.7
CPP	85	82.1
Raw Mill-3	85	78.9
Packing Plant	85	75.5

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Annexure-6
Greenbelt Development



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Annexure-7

Fugitive Emission Control Measures



Internal CC Roads & Floorings



Water Spraying on internal roads



Road Sweeping Machine



Pneumatic handling of Flyash



Coal Storage Shed



Limestone Storage Shed

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Laterite Storage Shed



Gypsum Storage Shed



Clinker Silo



Flyash Silo



Closed Conveying System



Closed Conveying System

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Bag filters at various material transfer points & silo top

FORM-V
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Annexure-8

Corporate Social Responsibility

Sl. No.	Activity	2024-25 (Rs)
1	School Running Expenses at Devapur	21,305,566.5
2	Medical Expenses at Dispensary	3,708,713.7
3	Vanavasi Kalyani Parishad	403,800.0
4	Amma Anadhan Shara Bellam Csr	239,050.0
5	Maintenance Charges of Sulabh Complex	261,225.0
6	Distribution Mass Meals Arranged for Adivasi Community	147,437.2
7	Hiring Charges of Ambulance for Villagers	1,049,336.1
8	Medical Camp at Nearby Villages	237,992.2
9	Pest Control at Devapur Nearby Villages	199,184.0
10	Construction Of Borewell at Devapur Near By Villages 6 No.	1,132,882.1
11	Construction Of New Rcc Road at Devapur Village	882,833.3
12	Construction Of New Rcc Road Nayakapu Gudem to Peddapur Road	5,208,578.3
13	Cleaning Of Area Near Salapalvagu River	24,763.4
14	Repairing Of Kasipet Bypass Bt Road (1500Mtr X 5.5Mtr)	4,130,092.7
15	Cheque Issued for Non-Literacy Programme	1,383,480.0
16	Freight Charges for Supply of Pvc Water Tank 1000 Ltr.	2,406.8
17	Construction Of Box Culvert at Tudumgudem Village	1,758,963.8
18	Preparing Boundary Fencing (750.00 Mtr) Along Nh Road for Deer Forest Near Ganadharivanam- Mancherla	228,087.9
	TOTAL	42,304,392.8



Orient Cement Occupational Health Centre



DAV Orient Gyna Mandir School
