

ZCL/ENV/EC/MINES/2025/*May 12*

Date: 29.05.2025

To,
Ministry of Environment ,Forests & Climate Change,
IA Division, Paryavaran Bhavan,
C.G.O. Complex, Lodhi Road,
New Delhi-110003.

Dear Sir,

Sub: Environmental Clearance Six monthly Compliance conditions Report of our Lime Stone Mine of M/s Zuari Cements Ltd, Yerraguntla, District Y.S.R Kadapa –A.P.

Ref: - Environment Clearance letter No. J-11015/523/2008-IA.II-(M) dated 06.07.2009.

With reference to the above subject and referred letter, we are submitting herewith the point wise compliance of conditions of above environmental clearance letter for the period from Oct 2024 to March 2025.

Thanking you,

Yours faithfully
For Zuari Cement Limited



GGK Murthy
Head – Works

Encl: As above

Cc to:

The Regional Director,
Integrated Regional Office,Ministry of Environment, Forests & Climate Change,
Buckinghampeta, Vijayawada,Andharapradesh -520002.

The Member Secretary
Andhra Pradesh Pollution Control Board,Paryavaran Bhavan,
APIIC Colony Road, Gurunanak Colony, Autonagar, Vijayawada- 520007.

The Environment Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, 1st Floor,D.No.72/272-5-18,
Kurnool-Chittoor NH 40 Road, Near Vinayaka Nagar Circle, Kadapa – 516003

Project Code:

1. Name Of the Project: Zuari Limestone Mines
2. Clearance Letter No. With date: J-110155232008-IA.II (M), dated 06.07.2009
3. Period of Compliance Report: October 2023 to March 2024.

I. Specific Conditions:

S.NO	Conditions	Compliance Status
I.	No two pits shall be simultaneously worked i.e before the first pit is exhausted and reclamation work completed mineral bearing area shall be worked	Presently we are working in one pit only Whenever second pit is proposed, the above specific conditions will be strictly adhered. 
II.	After exhausting first mine pit and before starting mining operation in next pit, reclamation and plantation work in exhausted pit shall be completed so as to ensure that reclamation, forest cover and vegetation are visible during first year of mining operation in the next pit. This process will follow till the last pit is exhausted. Adequate rehabilitation of the mine pit shall be completed before any ore bearing area is worked.	Presently we are working in one pit only Whenever second pit is proposed, the above specific conditions will be strictly adhered
III.	Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.	Not applicable as it is only a single deposit.
IV.	Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse effect on ground water quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse impact on ground water is implemented. Specific hydro-geological shall be conducted at the end of mining plan period i.e. at the end of the 5th year of mining, before proceeding to undertake mining in the 6th year. The	Hydro-geological study has been conducted and reviewed annually & report is being submitted on regular basis.



	report shall be submitted to the Regional Office of the Ministry.	
V.	A 50 m barrier of no mining zone all along the sides of the Pedda Vanka nallah passing through the lease area shall be demarcated and thick vegetation of native species raised. Status of implementation shall be submitted to the Regional Office of the Ministry on half yearly basis. It shall be ensured that no silt originating from mining activity is transported in the nallah / surface water course.	50 m barrier zone has been demarcated Plantation done at side of peddavanka nallah No discharge of water from quarry to Pedda Vanka Nalla. Hence, no silt is getting originated from the mining activity. 
VI.	The company shall ensure that no silt originating due to mining activity is transported in the surface water course / nallah flowing in the area	No discharge of water from quarry to Pedda Vanka Nalla. Hence, no silt is getting originated from the mining activity
VII.	Option for setting up of covered conveyor belt from crusher located in the lease to loading point shall be explored within a reasonable period. Adequate justification if not possible shall be submitted to the ministry within six months. Expansion beyond the existing capacity 4.5MTPA shall not be carried out until the system is in place or until satisfactory justification as above is provided	We got exemption for this point vide MOEF letter no J-11015/523/2008-IA-II(M) Dated 12.4.2010. However we are installed rain guns at haul road to minimize the dust emissions. 
VIII.	Need based assessment for the nearby villages shall be conducted to study economic measures which can help in upliftment of poor section of society. Income generating projects/tools such as development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community	Need base assessment has been conducted nearby villages and implemented self-sustained income generating programmes candle making Stitching & etc.

	development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs. Local employable youth shall be trained in skills relevant to the project for eventual employment in the project itself to the extent feasible.	
IX.	Land-use pattern of the nearby villages shall be studied and action plan for abatement and compensation for damage to agricultural land / common property land (if any) in the nearby villages, due to mining activity shall be submitted to the Regional office of the Ministry within six months. Annual status of implementation of the plan and expenditure thereon shall be reported to the Regional Office of the Ministry from time to time.	Land-use pattern study has been conducted and report is submitted. No damage to agricultural land / common property land due to mining activity
X.	Maintenance of village roads through which transportation of ores are undertaken shall be carried out by the company regularly at its own expenses. The roads shall be black topped.	There is No any village roads passing during transportation of limestone
XI.	Rainwater harvesting shall be undertaken to recharge the ground water source Status of implementation shall be submitted to the Regional Office of the Ministry within six months and thereafter every year from the next consequent year.	Rainwater harvesting is implemented. A sump of adequate capacity has been developed and rainwater harvested water is being used for green belt development and for plant, mines operations.  
XII.	Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	Measures has been taken to soil erosion and plantation done on dumps with ageva plantation. Coir matting done on inactive dump portion and retaining wall also constructed. 

XIII.	Trenches / garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of Check Dams and Gully Plugs shall be constructed across seasonal / perennial nallahs (if any) flowing through the ML area and silts arrested. De-silting at regular intervals shall be carried out. Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.	Rainwater collected is used for watering the mine area, roads, green belt development and plant operations. Collected water is not pumped out. Sump is of adequate capacity. 
XIV.	Ground water in the core zone shall be regularly monitored for contamination and depletion due to mining activity and records maintained. The monitoring data shall be submitted to the regional office of the Ministry regularly. Further, monitoring points shall be located between the mine and drainage in the direction of flow of ground water shall be set up and records maintained.	Mine working has not intersected water table. Ground water is monitored on Quarterly basis in core and buffer zone and maintaining the records. Regularly submitting the reports.
XV.	Cultivable waste land (within 5km of the lease) shall be identified and fodder farming or other suitable productive use of waste land shall be taken up in phased manner. Status of implementation shall be submitted to the Regional Office of the Ministry.	Waste land available in the area is being taken up with suitable plantation.
XVI.	Shelter Belt i.e. Wind Break of 30 m width and consisting of at least 5 tiers around lease facing the school / agricultural fields / human habitation etc. (if any in the vicinity) shall be raised.	We are developing wind break green belt around the lease area. 



XVII.	Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records submitted to the Regional Office of the Ministry.	All precautionary measures like wet drilling water sprinkling on haul road, muck pile wetting is being followed to control dust emission. Dust monitoring is being carried out on monthly basis report is submitting to APPCB on monthly basis and half yearly to the Ministry.
XVIII.	Monitoring of soil samples for assessment of transformation to acidic state or contamination due to mining activity (as applicable) shall be regularly conducted and records maintained.	Soil monitoring is being done on regular basis and maintained the records.
XIX.	Dumpers used in the mine need not be covered with any tarpaulin but shall strictly follow the dust and sound mitigation measures prescribed inside the mine and or processing plants and loading points. However transport vehicles used for external transport over public places, habitations, forest areas etc as may be applicable in this case shall be covered with tarpaulin and proper maintenance and upkeep of these tippers or other types of trucks shall be done. No overloading of ores for transportation shall be carried.	Dust and sound mitigation measures are strictly followed. No overloading is allowed for transportation. Muck pile wetting is done before loading into trucks.
XX.	Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. Shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required	Various trainings have been and are being organized for the workers, on regular basis as per requirement. Occupational and health safety measures to identify work related health hazards, malaria eradication, HIV and effect of mineral dust exposure on health. A well trained full time doctor available round the clock inside colony premises. Periodic monitoring for exposure to respirable mineral dust is conducted and records herewith is maintained. Various awareness programme has been organized on impact of mining on health and use of personal protective equipment. Medical checkup is done as per the requirement.
XXI.	Top soil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (wherever applicable) for reclamation and rehabilitation of mined out areas. Topsoil shall be separately stacked for	Presently topsoil is being utilized for plantation and remaining quantity stacked separately in the earmarked location.

	utilization later for reclamation and shall not be stacked along with over burden.	
XXII.	Over burden (OB) shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m, each stage shall preferably be of 10m and overall slope of the dump shall not exceed 28°. The OB dump shall be backfilled. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly basis.	This mine does not produce any overburden. Presently there is no OB dumps.
XXIII.	Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines.	Slope of the mining bench and ultimate pit limit is maintained as per the mining scheme approved by Indian Bureau of Mines.
XXIV.	Adequate plantation shall be raised in the ML area, haul roads, OB dump sites etc. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO / Agriculture Department. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. The density of the trees shall not be less than 2500 plants per ha. The company shall involve local people with the help of self help group for plantation programme. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Regional Office of the Ministry every year.	Active mining is under progress and mining activities has not reached to the ML boundary and plantation is being done along the mine boundary with native species. We are involving local people for plantation. 2024-245 :2200 NO's

XXV.	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year – pre – monsoon (April-May), monsoon (August), Post-monsoon (November) and winter (July) and the data thus collected shall be regularly sent to MOEF, Central Ground Water Authority and Regional Director, Central Ground Water Board.	Piezometer bore wells established an piezometers installed at core zone and buffer zone. Ground water level is being carried out on regular basis, report is submitting quarterly basis.
XXVI.	Adequate air monitoring stations shall be installed in areas of human habitations near the mine and the results of ambient air quality shall be maintained and regularly submitted to the Regional Office of the Ministry. The monitored data of criteria pollutants shall be regularly uploaded on the company's website and also displayed at project site.	Ambient air quality monitoring stations has been established core and buffer zone. Monitoring data is submitting regular basis. Data displayed at main gate. Latest Report is enclosed attached as Annexure-I.
XXVII.	The wastewater from the mine shall be treated to conform to the prescribed standards before discharging into the natural stream. The discharged water from the Tailing, Dam (if any) shall be regularly monitored and report submitted to the Ministry of Environment & Forests, Central Pollution Control Board and the State Pollution Control Board.	No water discharge outside. Collected water being used for green belt and plant & mine operations.
XXVIII.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of ores and others shall have valid permissions and prescribed under Central Motor Vehicle Rules, 1989 and its amendments. The number of shifts for mine operations could be as prescribed in the approved Mine plan. However the no. of shifts or hours permissible for external vehicular traffic shall not exceed the limits in vogue for the area under consideration or in the event of passage through forest roads or public places as may be applicable in this case. The limits prescribed by the local authorities shall not be exceeded. If no such guidelines for time restrictions are applicable, then external transport shall be preferably confined to two shifts.	Vehicular emissions are regularly monitored. Vehicles used in mines have valid permission. The number of shifts are as per the approved mining plan. The mineral transportation is from mine workings to crusher and not in any forest roads or public roads.

XXIX.	Prior permission from the Competent Authority shall be obtained for extraction of ground water, if any.	Andharapradesh state does not come under purview of CGWA and industries need to obtain permission from state government. We have obtained state board permission.
XXX.	Action plan with respect to suggestions / improvements and recommendations made during public consultation / hearing shall be submitted to the Ministry and the State Govt. within six months.	Implemented suggestions and recommendations raised during public hearing
XXXI.	A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests, 5 years in advance of final mine closure for approval.	We will submit final closure plan with details as per the condition.

II. General Conditions:

S.No	Conditions	Compliance Status
I.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	There is no change in the Calendar Plan for the production of quantum of Mineral limestone and waste.
II.	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	Adequate measures like water sprinklers, wet drilling, water spraying etc, are in use. Water sprinkling Arrangement has been made on hauls roads, loading and unloading and transfer points to avoid dust generation.
III.	Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2, NOX monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Ambient air quality monitoring stations have been established in core and buffer zone. Monitoring data is submitted on regular basis.
IV.	Data on ambient air quality (PM10, PM2.5, SO2 and NOX) should be regularly submitted to the Ministry including its Regional office located at Bangalore and the State Pollution Control Board / Central pollution Control Board once in six months. The monitored data of criteria pollutants mentioned above shall be regularly uploaded on	Ambient air quality is monitored on monthly basis and report being submitted to concerned authority as per condition stipulated. Data is uploading in our website. https://www.zuaricements.com

	the company's website and also displayed at project site.	
V.	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc., shall be provided with ear plugs / muffs.	Adequate measures like proper maintenance of vehicle, air conditioned cabin, etc has been provided to keep the noise level below prescribed limit. All workers engaged in operation of HEMM have been provided with ear plugs/muffs. Noise levels are monitored and maintained within the prescribed limits.
VI.	Industrial wastewater (workshop and wastewater from the mine) should be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	The workshop wastewater is being collected in Oil and Grease trap (3 chamber tank) and after settling and clean water is utilizing for dust suppression over haulage road. No discharge of water from mine to outside.
VII.	Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.	All personnel working in mines are provided with protective and safety equipment. They are also provided adequate training and information on safety and health aspects. Health status also periodically monitored as per Mines/Act Rules. Occupational health surveillance is being carried periodically.
VIII.	Provision shall be made for the housing the laborers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All necessary facilities are provided for work force. 
IX.	A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate Environmental Management cell is established under the control of senior executive and direct reporting to the head of the organization who is responsible for environmental management of Mines.
X.	The project authorities shall inform to the Regional Office of the Ministry located at Bangalore regarding data of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Complied.

XI.	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bangalore.	A separate account for year-wise expenditure on environmental protection measures is maintained. Environmental Expenditure -2024-25 <table><tr><th>Description</th><th>Amount</th></tr><tr><td>Maintenance of plants</td><td>410640</td></tr><tr><td>Maintenance of plants</td><td>240919</td></tr><tr><td>Saplings</td><td>71500</td></tr><tr><td>Pipeline fittings and services</td><td>20626</td></tr><tr><td>JCB for bushes cleaning in plantation</td><td>20550</td></tr><tr><td>Tractor for plantation</td><td>87320</td></tr><tr><td>Labour hours for plantation</td><td>302048</td></tr><tr><td>Tractor</td><td>25959</td></tr><tr><td>Water tanker dust suppression</td><td>484248</td></tr><tr><td>Construction of retaining wall</td><td>576050</td></tr><tr><td>Fencing</td><td>32719</td></tr><tr><td>Total</td><td>2240489</td></tr></table>	Description	Amount	Maintenance of plants	410640	Maintenance of plants	240919	Saplings	71500	Pipeline fittings and services	20626	JCB for bushes cleaning in plantation	20550	Tractor for plantation	87320	Labour hours for plantation	302048	Tractor	25959	Water tanker dust suppression	484248	Construction of retaining wall	576050	Fencing	32719	Total	2240489
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XII.	The project authorities shall inform to the Regional Office of the Ministry located at Bangalore regarding data of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted.																										
XIII.	The Regional Office of the Ministry located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite date / information / monitoring reports	Complied.																										
XIV.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forest, its Regional Office, Bangalore, Central Pollution Control Board and State Pollution Control Board. The Project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests, Bangalore.	Six monthly submitting Environment clearance point wise condition compliance report to ministry and APPCB. Data uploading on our company website and MOEF website. E- mail also sending to ministry and APPCB.																										
XV.	A copy of clearance letter will be marked to concerned Panchayat / Local NGO, if any, from whom suggestion / representation has been received while procession the proposal. The clearance letter shall also be put on the website of the company.	Complied.																										
XVI.	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office / Tehsildar's Office for 30 days.	Complied.																										

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Annexure-I



Zuari Cement
HEIDELBERGCEMENT Group

Zuari Cement Limited

CIN: U26942AP2000PLCO50415

Krishna Nagar, Yerraguntla,

District Kadapa,

Andhra Pradesh - 516311,

Tel: +91 85632 75107 / 08

Fax: +91 85632 75101 / 64

www.zuaricements.com

ZCL/ YA/ EM /MINES/2025/ *Apr03*
Date: 23.04.2025

To
The Member Secretary
Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan,
APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada- 520007

Dear Sir,

Please find enclosed the Ambient Air, Noise & Water Quality reports of Zuari Limestone mines of Zuari Cement Ltd –Yerraguntla for the month of March 2025.

Thanking you,

Yours faithfully
For Zuari Cement Ltd


GGK Murthy
Head-Works

Encl: As above

cc :

The Environment Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, 1st Floor, D.No.72/272-5-18,
Kurnool-Chittoor NH 40 Road,
Near Vinayaka Nagar Circle, Kadapa – 516003.

ZUARI LIMESTON MINE OF M/S ZUARI CEMENTS LTD
KRISHNAGAR, YERRAGUNTALA, KADAPA –DISTRICT -516311(A.P).

Monitoring Data for the Month of March 2025

Location		Mines Office		Near Loading		Near Drilling		Haul Road		Valasapalli		Koduru		Peddannapadu		Tummalapalli	
	Limit	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
	PM ₁₀ µg/m3	100	51.2	56.9	62.9	69.2	65.4	66.4	55.6	60.2	44.6	41.7	42.7	47.5	46.4	44.6	48.3
	PM _{2.5} µg/m3	60	19.5	21.4	23.4	28.5	24.1	25.7	22.4	23.6	21.7	16.2	20.3	20.5	23.1	18.6	22.9
	SO ₂ µg/m3	80	7.6	6.1	6.5	13.5	9.3	12.4	11.5	10.9	9.4	7.5	7.6	8.3	8.1	6.9	9.6
	NO _X µg/m3	80	16.4	15.2	18.2	25.7	19.4	24.2	23.6	20.4	20.2	17.5	16.8	18.2	19.5	15.8	19.2
II.Quality of Discharge Water: Zero Discharge Water From Mines																	
Mines harvested water is being used for Cement Plant Operations.																	
1	Total Dissolved Solid (TDS)						mg/Ltr		810								
2	BOD for 3 days at 27 C mg/l						mg/Ltr		09								
3	PH								7.38								
4	Total Suspended solids (TSS)						mg/Ltr		18								
III.Ambient Noise levels:																	
1.	Mines Boundary –East						64.3		Nighttime				Day -Limit		Night -Limit		
2.	Mines Boundary -West						62.9		59.1				75dB		70dB		
3.	Mines Boundary -North						65.2		57.4				60.9				
4.	Mines Boundary -South						66.7		61.2								



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

Recognised by MOEF&CC/CPCB under EP Act, GOI, New Delhi & Laboratory Accredited by NABL



ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/ZCL/AAQ/003/2025

ANNEXURE-1

Date: 22-3-2025

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-9	A-10	A-11	A-12	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	13-3-2025 to 14-3-2025	13-3-2025 to 14-3-2025	13-3-2025 to 14-3-2025	13-3-2025 to 14-3-2025		
Starting Time	8.25 am	8.50 am	9.20 am	9.50 am		
Ending Time	8.25 am	8.50 am	9.20 am	9.50 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	51.2	62.9	65.4	55.6	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	19.5	23.4	24.1	22.4	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	7.6	6.5	9.3	11.5	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	16.4	18.2	19.4	23.6	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2161-DTH-2011, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2461-DTA-2019, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
3. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2463-DTA-2019, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
4. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2464-DTA-2019, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
3. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

Recognised by MOEF&CC/CPCB under EP Act, GOI, New Delhi & Laboratory Accredited by NABL



ISO 9001, 14001 & 45001
Certified Company

TEST REPORT

REF.NO: LAWN/ZCL/AAQ/004/2025

ANNEXURE-1

Date: 22-3-2025

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-13	A-14	A-15	A-16	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	14-3-2025 to 15-3-2025	14-3-2025 to 15-3-2025	14-3-2025 to 15-3-2025	14-3-2025 to 15-3-2025		
Starting Time	10.20 am	10.50 am	11.20 am	12.05 pm		
Ending Time	10.20 am	10.50 am	11.20 am	12.05 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	44.6	42.7	46.4	40.5	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	21.7	20.3	23.1	19.4	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	9.4	7.6	8.1	5.5	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	20.2	16.8	19.5	15.1	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2161-DTH-2011, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
2. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2461-DTA-2019, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
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4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/001/2025

ANNEXURE-1

Date: 04-4-2025

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-1	A-2	A-3	A-4	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	28-3-2025 to 29-3-2025	28-3-2025 to 29-3-2025	28-3-2025 to 29-3-2025	28-3-2025 to 29-3-2025		
Starting Time	10.20 am	10.50 am	11.20 am	11.50 am		
Ending Time	10.20 am	10.50 am	11.20 am	11.50 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	56.9	69.2	66.4	60.2	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	21.4	28.5	25.7	23.6	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	6.1	13.5	12.4	10.9	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	15.2	25.7	24.2	20.4	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/002/2025

ANNEXURE-1

Date: 04-4-2025

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-5	A-6	A-7	A-8	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	29-3-2025 to 30-3-2025	29-3-2025 to 30-3-2025	29-3-2025 to 30-3-2025	29-3-2025 to 30-3-2025		
Starting Time	12.05 pm	12.30 pm	1.00 pm	1.30 pm		
Ending Time	12.05 pm	12.30 pm	1.00 pm	1.30 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	41.7	47.5	44.6	48.3	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	16.2	20.5	18.6	22.9	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	7.5	8.3	6.9	9.6	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	17.5	18.2	15.8	19.2	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

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TEST REPORT

REF.NO: LAWN/ZCL/WW/006/2025

ANNEXURE-3

Date: 04-4-2025

WASTE WATER ANALYSIS

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Date of Collection : 28-3-2025
Date of Analysis : 29-3-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS 3025

S.No.	Parameters	PROTOCOL	MINES PIT	
			Mines Pit Water	GSR 422E (Inland surface water)
1	Colour (Hazen Units)	IS:3025 (Part-4)	<5	See Note - 1
2	Odour	IS:3025 (Part-5)	Agreeable	See Note - 1
3	pH 26.2°C	IS:3025 (Part-11)	7.38	5.5 – 9.0
4	Oil & Grease, mg/l	IS:3025 (Part-39)	<1.0	10
5	Total Suspended Solids, mg/l	IS:3025 (Part-17)	18	100
6	Total Dissolved Solids at 105 °C, mg/l	IS:3025 (Part-16)	810	2,100
7	Bio Chemical Oxygen Demand for (3 days at 27°C), mg/l	IS:3025 (Part-44)	09	30
8	Chemical Oxygen Demand, mg/l	IS:3025 (Part-58)	21	250
9	Chlorides as Cl, mg/l	IS:3025 (Part-32)	151	1,000
10	Fluorides as F, mg/l	4500 F-D APHA 23 rd Edn 2012	0.58	2.0
11	Dissolved Phosphate as P, mg/l	IS:3025 (Part-31)	0.10	5.0
12	Percent Sodium	IS:2296-1982	16.97	----
13	Sulphide as S, mg/l	IS:3025 (Part-29)	0.09	2.0
14	Boron as B, mg/l	IS:3025 (Part-57)	0.13	2.0
15	Residual Sodium Carbonate, mg/l	IS:11624	Nil	----
16	Sulphates as SO ₄ , mg/l	IS:3025 (Part-24)	176	1,000
17	Iron as Fe, mg/l	IS:3025 (Part-53)	0.15	3.0
18	Total Volatile Suspended Solids, mg/l (TVSS)	IS:3025 (Part-18)	5.41	----

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TEST REPORT

REF.NO: LAWN/ZCL/NOISE/005/2025

ANNEXURE-2

Date: 04-4-2025

AMBIENT NOISE LEVEL DATA

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

S.No	Locations	Date of Monitoring	Equivalent Noise Levels in dB(A)	
			Day Time	Night Time
1	Mines Boundary - East	28-3-2025	64.30	59.10
2	Mines Boundary - West	28-3-2025	62.90	57.40
3	Mines Boundary - North	28-3-2025	65.20	60.90
4	Mines Boundary - South	28-3-2025	66.70	61.20
5	Mines Office	28-3-2025	60.80	55.80

- Note:**
1. Instrument Make: Lutron SL-4001/G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
 2. Day time is reckoned in between 6.0 am and 10.0 pm – Limit 75 dB (A).
 3. Night time is reckoned in between 10.0 pm and 6.0 am – Limit 70 dB (A).

AUTHORISED SIGNATORY

OK



Zuari Cement
HEIDELBERGCEMENT Group

Zuari Cement Limited

CIN: U26942AP2000PLCO50415

Krishna Nagar, Yerraguntla,

District Kadapa,

Andhra Pradesh - 516311,

Tel: +91 85632 75107 / 08

Fax: +91 85632 75101 / 64

www.zuaricements.com

ZCL/ YA/ EM /MINES/2025/ *Maros*
Date: 25.03.2025

To
The Member Secretary
Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan,
APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada- 520007

Dear Sir,

Please find enclosed the Ambient Air, Noise & Water Quality reports of Zuari Limestone mines of Zuari Cement Ltd –Yerraguntla for the month of Feb 2025.

Thanking you,

Yours faithfully
For Zuari Cement Ltd

GGK Murthy
Head-Works

Encl: As above

cc :

The Environment Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, 1st Floor, D.No.72/272-5-18,
Kurnool-Chittoor NH 40 Road,
Near Vinayaka Nagar Circle, Kadapa – 516003.

ZUARI LIMESTON MINE OF M/S ZUARI CEMENTS LTD
KRISHNAGAR, YERRAGUNTLA, KADAPA –DISTRICT -516311(A.P).

Monitoring Data for the Month of Feb 2025

Location		Mines Office		Near Loading		Near Drilling		Haul Road		Valasapalli		Koduru		Peddannapadu		Tummalapalli		
	Limit	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	
	PM ₁₀ µg/m3	100	54.5	52.6	64.3	67.4	67.6	64.5	57.2	57.3	43.4	43.2	47.8	49.8	49.6	40.9	51.3	46.5
	PM _{2.5} µg/m3	60	21.5	20.5	25.1	26.1	26.4	24.6	23.5	22.5	19.9	18.4	21.6	21.5	20.7	16.5	23.8	19.2
	SO ₂ µg/m3	80	5.8	7.3	8.3	11.2	10.9	9.4	7.6	13.7	6.5	9.1	8.4	5.6	10.8	10.3	9.2	6.8
	NOX µg/m3	80	15.6	17.6	19.3	23.5	21.5	18.6	18.3	26.1	16.5	18.9	18.3	15.6	21.4	20.7	19.7	17.5
II.Quality of Discharge Water: Zero Discharge Water From Mines Mines harvested water is being used for Cement Plant Operations.																		
1	Total Dissolved Solid (TDS)					mg/Ltr		704										
2	BOD for 3 days at 27 C mg/l					mg/Ltr		08										
3	PH							7.69										
4	Total Suspended solids (TSS)					mg/Ltr		16										
III.Ambient Noise levels:																		
1.	Mines Boundary –East					61.7		56.8				Nighttime		Day -Limit		Night -Limit		
2.	Mines Boundary -West					60.4		55.6				75dB		70dB				
3.	Mines Boundary -North					63.2		58.2										
4.	Mines Boundary -South					62.8		57.9										



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/003/2025

ANNEXURE-1

Date: 15-02-2025

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-9	A-10	A-11	A-12	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	08-02-2025 to 09-02-2025	08-02-2025 to 09-02-2025	08-02-2025 to 09-02-2025	08-02-2025 to 09-02-2025		
Starting Time	8.00 am	8.30 am	9.00 am	9.30 am		
Ending Time	8.00 am	8.30 am	9.00 am	9.30 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM ₁₀	54.5	64.3	67.6	57.2	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM _{2.5}	21.5	25.1	26.4	23.5	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So ₂	5.8	8.3	10.9	7.6	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No ₂	15.6	19.3	21.5	18.3	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/004/2025

ANNEXURE-1

Date: 15-02-2025

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-13	A-14	A-15	A-16	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	09-02-2025 to 10-02-2025	09-02-2025 to 10-02-2025	09-02-2025 to 10-02-2025	09-02-2025 to 10-02-2025		
Starting Time	10.00 am	10.30 am	11.00 am	11.30 am		
Ending Time	100.00 am	10.30 am	11.00 am	11.30 am		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	43.4	47.8	49.6	51.3	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	19.9	21.6	20.7	23.8	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	6.5	8.4	10.8	9.2	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	16.5	18.3	21.4	19.7	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
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Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

Email: lawnnenviro@yahoo.co.in, info@lawnnenviro.in, URL : www.lawnnenviro.in



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/001/2025

ANNEXURE-1

Date: 05-3-2025

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-1	A-2	A-3	A-4	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	24-02-2025 to 25-02-2025	24-02-2025 to 25-02-2025	24-02-2025 to 25-02-2025	24-02-2025 to 25-02-2025		
Starting Time	10.30 am	11.00 am	11.30 am	12.10 pm		
Ending Time	10.30 am	11.00 am	11.30 am	12.10 pm		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	52.6	67.4	64.5	57.3	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	20.5	26.1	24.6	22.5	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	7.3	11.2	9.4	13.7	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	17.6	23.5	18.6	26.1	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
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4. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2464-DTA-2019, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026

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2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/002/2025

ANNEXURE-1

Date: 05-3-2025

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh - 516 311.

Code	A-5	A-6	A-7	A-8	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	25-02-2025 to 26-02-2025	25-02-2025 to 26-02-2025	25-02-2025 to 26-02-2025	25-02-2025 to 26-02-2025		
Starting Time	12.30 pm	1.00 pm	1.30 pm	2.00 pm		
Ending Time	12.30 pm	1.00 pm	1.30 pm	2.00 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	43.2	49.8	40.9	46.5	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	18.4	21.5	16.5	19.2	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	9.1	5.6	10.3	6.8	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	18.9	15.6	20.7	17.5	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2161-DTH-2011, CALIBRATED ON 06-01-2025, DUE ON 05-01-2026
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Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

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TEST REPORT

REF.NO: LAWN/ZCL/WW/006/2025

ANNEXURE-3

Date: 05-3-2025

WASTE WATER ANALYSIS

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Date of Collection : 25-02-2025
Date of Analysis : 26-02-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS 3025

S.No.	Parameters	PROTOCOL	MINES PIT	
			Mines Pit Water	GSR 422E (Inland surface water)
1	Colour (Hazen Units)	IS:3025 (Part-4)	<5	See Note - 1
2	Odour	IS:3025 (Part-5)	Agreeable	See Note - 1
3	pH 26.2°C	IS:3025 (Part-11)	7.69	5.5 – 9.0
4	Oil & Grease, mg/l	IS:3025 (Part-39)	<1.0	10
5	Total Suspended Solids, mg/l	IS:3025 (Part-17)	16	100
6	Total Dissolved Solids at 105 °C, mg/l	IS:3025 (Part-16)	704	2,100
7	Bio Chemical Oxygen Demand for (3 days at 27°C), mg/l	IS:3025 (Part-44)	08	30
8	Chemical Oxygen Demand, mg/l	IS:3025 (Part-58)	18	250
9	Chlorides as Cl, mg/l	IS:3025 (Part-32)	131	1,000
10	Fluorides as F, mg/l	4500 F-D APHA 23 rd Edn 2012	0.65	2.0
11	Dissolved Phosphate as P, mg/l	IS:3025 (Part-31)	0.08	5.0
12	Percent Sodium	IS:2296-1982	14.76	----
13	Sulphide as S, mg/l	IS:3025 (Part-29)	0.07	2.0
14	Boron as B, mg/l	IS:3025 (Part-57)	0.11	2.0
15	Residual Sodium Carbonate, mg/l	IS:11624	Nil	----
16	Sulphates as SO ₄ , mg/l	IS:3025 (Part-24)	153	1,000
17	Iron as Fe, mg/l	IS:3025 (Part-53)	0.17	3.0
18	Total Volatile Suspended Solids, mg/l (TVSS)	IS:3025 (Part-18)	4.71	----


AUTHORISED SIGNATORY



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TEST REPORT

REF.NO: LAWN/ZCL/NOISE/005/2025

ANNEXURE-2

Date: 05-3-2025

AMBIENT NOISE LEVEL DATA

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

S.No	Locations	Date of Monitoring	Equivalent Noise Levels in dB(A)	
			Day Time	Night Time
1	Mines Boundary - East	24-02-2025	61.70	56.80
2	Mines Boundary - West	24-02-2025	60.40	55.60
3	Mines Boundary - North	24-02-2025	63.20	58.20
4	Mines Boundary - South	24-02-2025	62.80	57.90
5	Mines Office	24-02-2025	58.10	53.30

- Note:**
1. Instrument Make: Lutron SL-4001/G-49271, Calibrated On 20-02-2025, Due On 19-02-2026.
 2. Day time is reckoned in between 6.0 am and 10.0 pm – Limit 75 dB (A).
 3. Night time is reckoned in between 10.0 pm and 6.0 am – Limit 70 dB (A).


AUTHORISED SIGNATORY

ok



Zuari Cement
HEIDELBERGCEMENT Group

Zuari Cement Limited

CIN: U26942AP2000PLCO50415

Krishna Nagar, Yerraguntla,

District Kadapa,

Andhra Pradesh - 516311.

Tel: +91 85632 75107 / 08

Fax: +91 85632 75101 / 64

www.zuaricements.com

ZCL/ YA/ EM /MINES/2025/ *Feb03*
Date: 21.02.2025

To
The Member Secretary
Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan,
APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada- 520007

Dear Sir,

Please find enclosed the Ambient Air, Noise & Water Quality reports of Zuari Limestone mines of Zuari Cement Ltd –Yerraguntla for the month of Jan 2025.

Thanking you,

Yours faithfully
For Zuari Cement Ltd


GGK Murthy
Head-Works

Encl: As above

cc :

The Environment Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, 1st Floor,D.No.72/272-5-18,
Kurnool-Chittoor NH 40 Road,
Near Vinayaka Nagar Circle, Kadapa – 516003.

ZUARI LIMESTON MINE OF M/S ZUARI CEMENTS LTD
KRISHNAGAR, YERRAGUNTALA, KADAPA –DISTRICT -516311(A.P).

Monitoring Data for the Month of Jan 2025

Location	Mines Office		Near Loading		Near Drilling		Haul Road		Valasapalli		Koduru		Peddannapadu		Tummalapalli	
	Limit	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I
PM ₁₀ µg/m3	100	52.9	50.4	62.6	65.6	65.1	62.1	54.8	55.8	41.5	46.5	45.6	51.6	51.2	42.5	53.9
PM _{2.5} µg/m3	60	20.4	19.8	23.7	28.2	25.9	26.3	21.8	21.2	18.2	20.9	19.5	23.2	21.6	18.3	24.5
SO ₂ µg/m3	80	6.5	5.4	10.4	9.1	8.8	10.6	9.9	11.9	7.3	8.4	11.7	6.9	9.1	9.5	10.3
NOX µg/m3	80	17.8	16.8	21.9	19.5	18.5	20.7	20.4	23.5	17.8	19.5	23.8	17.4	18.2	21.6	20.5

II. Quality of Discharge Water: Zero Discharge Water From Mines

Mines harvested water is being used for Cement Plant Operations.

1	Total Dissolved Solid (TDS)	mg/Ltr	782
2	BOD for 3 days at 27 C mg/l	mg/Ltr	09
3	PH		7.43
4	Total Suspended solids (TSS)	mg/Ltr	18

III. Ambient Noise levels:

		Day time		Nighttime		Day -Limit		Night -Limit	
1.	Mines Boundary –East	63.8		58.5		75dB		70dB	
2.	Mines Boundary -West	61.9		56.4					
3.	Mines Boundary -North	65.4		60.1					
4.	Mines Boundary -South	61.2		56.8					



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/003/2025

ANNEXURE-1

Date: 03-02-2025

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-9	A-10	A-11	A-12	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	10-01-2025 to 11-01-2025	10-01-2025 to 11-01-2025	10-01-2025 to 11-01-2025	10-01-2025 to 11-01-2025		
Starting Time	8.30 am	9.00 am	9.30 am	10.00 am		
Ending Time	8.30 am	9.00 am	9.30 am	10.00 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM ₁₀	52.9	62.6	65.1	54.8	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM _{2.5}	20.4	23.7	25.9	21.8	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO ₂	6.5	10.4	8.8	9.9	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO ₂	17.8	21.9	18.5	20.4	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

AUTHORISED SIGNATORY

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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/004/2025

ANNEXURE-1

Date: 03-02-2025

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-13	A-14	A-15	A-16	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	11-01-2025 to 12-01-2025	11-01-2025 to 12-01-2025	11-01-2025 to 12-01-2025	11-01-2025 to 12-01-2025		
Starting Time	10.30 am	11.00 am	11.30 am	12.00 pm		
Ending Time	10.30 am	11.00 am	11.30 am	12.00 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	41.5	45.6	51.2	53.9	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	18.2	19.5	21.6	24.5	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	7.3	11.7	9.1	10.3	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	17.8	23.8	18.2	20.5	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/001/2025

ANNEXURE-1

Date: 03-02-2025

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh - 516 311.

Code	A-1	A-2	A-3	A-4	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	25-01-2025 to 26-01-2025	25-01-2025 to 26-01-2025	25-01-2025 to 26-01-2025	25-01-2025 to 26-01-2025		
Starting Time	10.15 am	10.40 am	11.05 am	11.35 am		
Ending Time	10.15 am	10.40 am	11.05 am	11.35 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	50.4	65.6	62.1	55.8	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	19.8	28.2	26.3	21.2	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	5.4	9.1	10.6	11.9	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	16.8	19.5	20.7	23.5	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/002/2025

ANNEXURE-1

Date: 03-02-2025

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-5	A-6	A-7	A-8	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	26-01-2025 to 27-01-2025	26-01-2025 to 27-01-2025	26-01-2025 to 27-01-2025	26-01-2025 to 27-01-2025		
Starting Time	11.55 am	12.30 pm	1.00 pm	1.35 pm		
Ending Time	11.55 am	12.30 pm	1.00 pm	1.35 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	46.5	51.6	42.5	49.8	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	20.9	23.2	18.3	21.7	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	8.4	6.9	9.5	5.4	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	19.5	17.4	21.6	15.7	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Höchheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


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Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

Email: lawnenviro@yahoo.co.in, info@lawnenviro.in, URL : www.lawnenviro.in



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TEST REPORT

REF.NO: LAWN/ZCL/WW/006/2025

ANNEXURE-3
Date: 03-02-2025

WASTE WATER ANALYSIS

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Date of Collection : 26-01-2025
Date of Analysis : 27-01-2025
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS 3025

S.No.	Parameters	PROTOCOL	MINES PIT	
			Mines Pit Water	GSR 422E (Inland surface water)
1	Colour (Hazen Units)	IS:3025 (Part-4)	<5	See Note - 1
2	Odour	IS:3025 (Part-5)	Agreeable	See Note - 1
3	pH 26.2°C	IS:3025 (Part-11)	7.43	5.5 – 9.0
4	Oil & Grease, mg/l	IS:3025 (Part-39)	<1.0	10
5	Total Suspended Solids, mg/l	IS:3025 (Part-17)	18	100
6	Total Dissolved Solids at 105 °C, mg/l	IS:3025 (Part-16)	782	2,100
7	Bio Chemical Oxygen Demand for (3 days at 27°C), mg/l	IS:3025 (Part-44)	09	30
8	Chemical Oxygen Demand, mg/l	IS:3025 (Part-58)	20	250
9	Chlorides as Cl, mg/l	IS:3025 (Part-32)	146	1,000
10	Fluorides as F, mg/l	4500 F-D APHA 23 rd Edn 2012	0.72	2.0
11	Dissolved Phosphate as P, mg/l	IS:3025 (Part-31)	0.09	5.0
12	Percent Sodium	IS:2296-1982	16.41	----
13	Sulphide as S, mg/l	IS:3025 (Part-29)	0.09	2.0
14	Boron as B, mg/l	IS:3025 (Part-57)	0.13	2.0
15	Residual Sodium Carbonate, mg/l	IS:11624	Nil	----
16	Sulphates as SO ₄ , mg/l	IS:3025 (Part-24)	170	1,000
17	Iron as Fe, mg/l	IS:3025 (Part-53)	0.20	3.0
18	Total Volatile Suspended Solids, mg/l (TVSS)	IS:3025 (Part-18)	5.24	----


AUTHORISED SIGNATORY



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Certified Company

TEST REPORT

REF.NO: LAWN/ZCL/NOISE/005/2025

ANNEXURE-2

Date: 03-02-2025

AMBIENT NOISE LEVEL DATA

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

S.No	Locations	Date of Monitoring	Equivalent Noise Levels in dB(A)	
			Day Time	Night Time
1	Mines Boundary - East	25-01-2025	63.80	58.50
2	Mines Boundary - West	25-01-2025	61.90	56.40
3	Mines Boundary - North	25-01-2025	65.40	60.10
4	Mines Boundary - South	25-01-2025	61.20	56.80
5	Mines Office	25-01-2025	59.50	54.30

- Note:**
1. Instrument Make: Lutron SL-4001/G-49271, Calibrated On 21-02-2024, Due On 20-02-2025.
 2. Day time is reckoned in between 6.0 am and 10.0 pm – Limit 75 dB (A).
 3. Night time is reckoned in between 10.0 pm and 6.0 am – Limit 70 dB (A).

AUTHORISED SIGNATORY

OK



Zuari Cement
HEIDELBERGCEMENT Group

Zuari Cement Limited

CIN: U26942AP2000PLCO50415
Krishna Nagar, Yerraguntla,
District Kadapa,
Andhra Pradesh - 516311,
Tel: +91 85632 75107 / 08
Fax: +91 85632 75101 / 64
www.zuaricements.com

ZCL/ YA/ EM /MINES/2025/Jun 06
Date: 22.01.2025

To
The Member Secretary
Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan,
APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada- 520007

Dear Sir,

Please find enclosed the Ambient Air, Noise & Water Quality reports of Zuari Limestone mines of Zuari Cement Ltd –Yerraguntla for the month of Dec 2024.

Thanking you,

Yours faithfully
For Zuari Cement Ltd


GGK Murthy
Head-Works

Encl: As above

cc :

The Environment Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, 1st Floor,D.No.72/272-5-18,
Kurnool-Chittoor NH 40 Road,
Near Vinayaka Nagar Circle, Kadapa – 516003.

ZUARI LIMESTON MINE OF M/S ZUARI CEMENTS LTD

KRISHNAGAR, YERRAGUNTLA, KADAPA –DISTRICT -516311(A.P).

Monitoring Data for the Month of Dec 2024

Location		Mines Office		Near Loading		Near Drilling		Haul Road		Valasapalli		Koduru		Peddannapadu		Tummalapalli	
	Limit	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
	PM ₁₀ µg/m3	100	49.8	53.9	64.7	61.7	66.9	64.4	59.3	57.4	47.9	44.9	42.4	49.3	53.3	40.6	52.4
	PM _{2.5} µg/m3	60	19.3	21.5	25.4	24.8	28.5	27.1	23.6	23.9	20.8	18.6	17.9	21.1	24.7	16.2	22.5
	SO ₂ µg/m3	80	7.6	6.5	11.5	10.2	6.4	8.8	13.2	12.5	8.1	7.2	7.6	5.9	6.4	8.4	6.6
	NO _X µg/m3	80	18.8	15.7	23.2	21.9	16.3	17.4	26.7	25.4	19.3	18.9	18.2	15.1	16.3	20.8	16.5
II.Quality of Discharge Water: Zero Discharge Water From Mines																	
Mines harvested water is being used for Cement Plant Operations.																	
1	Total Dissolved Solid (TDS)						mg/Ltr		652								
2	BOD for 3 days at 27 C mg/l						mg/Ltr		7								
3	PH								7.6								
4	Total Suspended solids (TSS)						mg/Ltr		15								
III.Ambient Noise levels:																	
1.	Mines Boundary –East						64.5		Nighttime				Day -Limit		Night -Limit		
2.	Mines Boundary -West						62.9		59.9				75dB		70dB		
3.	Mines Boundary -North						61.7		57.6				56.2				
4.	Mines Boundary -South						63.4		58.7								



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/003/2024

ANNEXURE-1

Date: 14-12-2024

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-9	A-10	A-11	A-12	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	05-12-2024 to 06-12-2024	05-12-2024 to 06-12-2024	05-12-2024 to 06-12-2024	05-12-2024 to 06-12-2024		
Starting Time	8.15 am	8.40 am	9.10 am	9.45 am		
Ending Time	8.15 am	8.40 am	9.10 am	9.45 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	49.8	64.7	66.9	59.3	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	19.3	25.4	28.5	23.6	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	7.6	11.5	6.4	13.2	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	18.8	23.2	16.3	26.7	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2161-DTH-2011, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2461-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2463-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
4. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2464-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/004/2024

ANNEXURE-1

Date: 14-12-2024

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh - 516 311.

Code	A-13	A-14	A-15	A-16	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	06-12-2024 to 07-12-2024	06-12-2024 to 07-12-2024	06-12-2024 to 07-12-2024	06-12-2024 to 07-12-2024		
Starting Time	10.15 am	10.45 am	11.15 am	11.50 am		
Ending Time	10.15 am	10.45 am	11.15 am	11.50 am		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	47.9	42.4	53.3	50.8	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	20.8	17.9	24.7	22.6	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	8.1	7.6	6.4	5.7	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	19.3	18.2	16.3	15.2	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2161-DTH-2011, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2461-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2463-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
4. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2464-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

Email: lawnenviro@yahoo.co.in, info@lawnenviro.in, URL : www.lawnenviro.in



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/001/2024

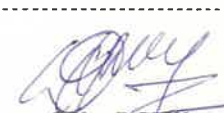
ANNEXURE-1

Date: 28-12-2024

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-1	A-2	A-3	A-4	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	20-12-2024 to 21-12-2024	20-12-2024 to 21-12-2024	20-12-2024 to 21-12-2024	20-12-2024 to 21-12-2024		
Starting Time	10.00 am	10.30 am	11.00 am	11.30 am		
Ending Time	10.00 am	10.30 am	11.00 am	11.30 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	53.9	61.7	64.4	57.4	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	21.5	24.8	27.1	23.9	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	6.5	10.2	8.8	12.5	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	15.7	21.9	17.4	25.4	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2161-DTH-2011, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2461-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
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4. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2464-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

Email: lawnnenviro@yahoo.co.in, info@lawnnenviro.in, URL : www.lawnnenviro.in



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/002/2024

ANNEXURE-1

Date: 28-12-2024

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-5	A-6	A-7	A-8	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	21-12-2024 to 22-12-2024	21-12-2024 to 22-12-2024	21-12-2024 to 22-12-2024	21-12-2024 to 22-12-2024		
Starting Time	11.50 am	12.20 pm	12.50 pm	1.30 pm		
Ending Time	11.50 am	12.20 pm	12.50 pm	1.30 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	44.9	49.3	40.6	52.4	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	18.6	21.1	16.2	22.5	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	7.2	5.9	8.4	6.6	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	18.9	15.1	20.8	16.5	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2161-DTH-2011, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2461-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2463-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
4. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2464-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
1. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 16-I-623), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-F-731), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
3. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-750), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024

Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

Email: lawnnenviro@yahoo.co.in, info@lawnnenviro.in, URL : www.lawnnenviro.in



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TEST REPORT

REF.NO: LAWN/ZCL/WW/006/2024

ANNEXURE-3
Date: 28-12-2024

WASTE WATER ANALYSIS

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Date of Collection : 21-12-2024
Date of Analysis : 23-12-2024
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS 3025

S.No.	Parameters	PROTOCOL	MINES PIT	
			Mines Pit Water	GSR 422E (Inland surface water)
1	Colour (Hazen Units)	IS:3025 (Part-4)	<5	See Note - 1
2	Odour	IS:3025 (Part-5)	Agreeable	See Note - 1
3	pH 25.7°C	IS:3025 (Part-11)	7.60	5.5 – 9.0
4	Oil & Grease, mg/l	IS:3025 (Part-39)	<1.0	10
5	Total Suspended Solids, mg/l	IS:3025 (Part-17)	15	100
6	Total Dissolved Solids at 105 °C, mg/l	IS:3025 (Part-16)	652	2,100
7	Bio Chemical Oxygen Demand for (3 days at 27°C), mg/l	IS:3025 (Part-44)	07	30
8	Chemical Oxygen Demand, mg/l	IS:3025 (Part-58)	17	250
9	Chlorides as Cl, mg/l	IS:3025 (Part-32)	122	1,000
10	Fluorides as F, mg/l	4500 F-D APHA 23 rd Edn 2012	0.60	2.0
11	Dissolved Phosphate as P, mg/l	IS:3025 (Part-31)	0.07	5.0
12	Percent Sodium	IS:2296-1982	13.68	----
13	Sulphide as S, mg/l	IS:3025 (Part-29)	0.06	2.0
14	Boron as B, mg/l	IS:3025 (Part-57)	0.10	2.0
15	Residual Sodium Carbonate, mg/l	IS:11624	Nil	----
16	Sulphates as SO ₄ , mg/l	IS:3025 (Part-24)	142	1,000
17	Iron as Fe, mg/l	IS:3025 (Part-53)	0.18	3.0
18	Total Volatile Suspended Solids, mg/l (TVSS)	IS:3025 (Part-18)	4.37	----


AUTHORISED SIGNATORY



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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Certified Company

TEST REPORT

REF.NO: LAWN/ZCL/NOISE/005/2024

ANNEXURE-2

Date: 28-12-2024

AMBIENT NOISE LEVEL DATA

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

S.No	Locations	Date of Monitoring	Equivalent Noise Levels in dB(A)	
			Day Time	Night Time
1	Mines Boundary - East	21-12-2024	64.50	59.90
2	Mines Boundary - West	21-12-2024	62.90	57.60
3	Mines Boundary - North	21-12-2024	61.70	56.20
4	Mines Boundary - South	21-12-2024	63.40	58.70
5	Mines Office	21-12-2024	65.70	66.10

- Note:**
1. Instrument Make: Lutron SL-4001/G-49271, Calibrated On 21-02-2024, Due On 20-02-2025.
 2. Day time is reckoned in between 6.0 am and 10.0 pm – Limit 75 dB (A).
 3. Night time is reckoned in between 10.0 pm and 6.0 am – Limit 70 dB (A).


AUTHORISED SIGNATORY

o/c



Zuari Cement
HEIDELBERGCEMENT Group

Zuari Cement Limited

CIN: U26942AP2000PLCO50415

Krishna Nagar, Yerraguntla,

District Kadapa,

Andhra Pradesh - 516311,

Tel: +91 85632 75107 / 08

Fax: +91 85632 75101 / 64

www.zuaricements.com

ZCL/ YA/ EM /MINES/2024/ *Dec 04*
Date: 13.12.2024

To
The Member Secretary
Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan,
APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada- 520007

Dear Sir,

Please find enclosed the Ambient Air, Noise & Water Quality reports of Zuari Limestone mines of Zuari Cement Ltd –Yerraguntla for the month of Nov 2024.

Thanking you,

Yours faithfully
For Zuari Cement Ltd

GGK Murthy
Head-Works

Encl: As above

cc :

The Environment Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, 1st Floor, D.No.72/272-5-18,
Kurnool-Chittoor NH 40 Road,
Near Vinayaka Nagar Circle, Kadapa – 516003.

ZUARI LIMESTON MINE OF M/S ZUARI CEMENTS LTD

KRISHNAGAR, YERRAGUNTLA, KADAPA –DISTRICT -516311(A.P).

Monitoring Data for the Month of Nov 2024

Location		Mines Office		Near Loading		Near Drilling		Haul Road		Valasapalli		Koduru		Peddannapadu		Tummalapalli	
		I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
	Limit																
PM ₁₀ µg/m3	100	45.4	51.4	60.2	59.2	63.5	62.6	54.9	55.3	43.8	47.6	48.1	51.5	55.7	43.8	52.6	54.9
PM _{2.5} µg/m3	60	16.9	20.2	23.8	23.9	26.1	25.8	21.7	22.6	15.6	20.1	19.2	22.3	22.5	18.5	20.9	23.2
SO ₂ µg/m3	80	6.8	8.1	10.7	12.3	9.3	9.2	11.3	11.2	6.8	8.7	9.8	6.2	10.2	7.9	7.6	5.4
NOX µg/m3	80	15.4	17.3	21.5	24.6	20.1	20.5	23.8	22.8	17.8	20.6	19.4	17.3	20.5	18.4	18.9	15.9

II. Quality of Discharge Water: Zero Discharge Water From Mines

Mines harvested water is being used for Cement Plant Operations.

1	Total Dissolved Solid (TDS)	mg/Ltr	724
2	BOD for 3 days at 27 C mg/l	mg/Ltr	08
3	PH		7.36
4	Total Suspended solids (TSS)	mg/Ltr	17

III. Ambient Noise levels:

		Day time	Nighttime	Day -Limit	Night -Limit
1.	Mines Boundary –East	61.4	56.8	75dB	70dB
2.	Mines Boundary -West	64.2	59.2		
3.	Mines Boundary -North	60.1	55.6		
4.	Mines Boundary -South	58.6	53.8		



LAWN ENVIRO PRIVATE LIMITED

[Environmental Engineers & Consultants in Pollution Control]

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Certified Company

TEST REPORT

REF.NO: LAWN/ZCL/AAQ/003/2024

ANNEXURE-1

Date: 18-11-2024

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-9	A-10	A-11	A-12	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	09-11-2024 to 10-11-2024	09-11-2024 to 10-11-2024	09-11-2024 to 10-11-2024	09-11-2024 to 10-11-2024		
Starting Time	8.30 am	9.00 am	9.30 am	10.00 am		
Ending Time	8.30 am	9.00 am	9.30 am	10.00 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	45.4	60.2	63.5	54.9	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	16.9	23.8	26.1	21.7	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	6.8	10.7	9.3	11.3	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	15.4	21.5	20.1	23.8	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

AUTHORISED SIGNATORY

1. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2161-DTH-2011, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
2. RESPIRABLE DUST SAMPLER MODEL/SL.NO.RDS 2461-DTA-2019, CALIBRATED ON 30-12-2023, DUE ON 29-12-2024
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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/004/2024

ANNEXURE-1

Date: 18-11-2024

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-13	A-14	A-15	A-16	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	10-11-2024 to 11-11-2024	10-11-2024 to 11-11-2024	10-11-2024 to 11-11-2024	10-11-2024 to 11-11-2024		
Starting Time	10.30 am	11.00 am	11.30 am	12.10 pm		
Ending Time	10.30 am	11.00 am	11.30 am	12.10 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	43.8	48.1	55.7	52.6	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	15.6	19.2	22.5	20.9	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	6.8	9.8	10.2	7.6	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	17.8	19.4	20.5	18.9	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

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4. FINE PARTICULATE SAMPLER / AAS 127 MINI; (SL.NO. 17-J-751), CALIBRATED ON 30-12-2023, DUE ON 29-12-2024



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/001/2024

ANNEXURE-1

Date: 03-12-2024

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-1	A-2	A-3	A-4	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	24-11-2024 to 25-11-2024	24-11-2024 to 25-11-2024	24-11-2024 to 25-11-2024	24-11-2024 to 25-11-2024		
Starting Time	10.05 am	10.40 am	11.10 am	11.40 am		
Ending Time	10.05 am	10.40 am	11.10 am	11.40 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	51.4	59.2	62.6	55.3	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	20.2	23.9	25.8	22.6	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	8.1	12.3	9.2	11.2	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	17.3	24.6	20.5	22.8	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

AUTHORISED SIGNATORY

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Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapalem, Vishakhapatnam-530046.Tel : 9701505182

Email: lawnenviro@yahoo.co.in, info@lawnenviro.in, URL : www.lawnenviro.in



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/002/2024

ANNEXURE-1

Date: 03-12-2024

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-5	A-6	A-7	A-8	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	25-11-2024 to 26-11-2024	25-11-2024 to 26-11-2024	25-11-2024 to 26-11-2024	25-11-2024 to 26-11-2024		
Starting Time	12.05 pm	12.30 pm	1.00 pm	1.40 pm		
Ending Time	12.05 pm	12.30 pm	1.00 pm	1.40 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	47.6	51.5	43.8	54.9	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	20.1	22.3	18.5	23.2	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
SO₂	8.7	6.2	7.9	5.4	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
NO₂	20.6	17.3	18.4	15.9	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

AUTHORISED SIGNATORY

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TEST REPORT

REF.NO: LAWN/ZCL/WW/006/2024

ANNEXURE-3
Date: 03-12-2024

WASTE WATER ANALYSIS

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Date of Collection : 25-11-2024
Date of Analysis : 26-11-2024
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS 3025

S.No.	Parameters	PROTOCOL	MINES PIT	
			Mines Pit Water	GSR 422E (Inland surface water)
1	Colour (Hazen Units)	IS:3025 (Part-4)	<5	See Note - 1
2	Odour	IS:3025 (Part-5)	Agreeable	See Note - 1
3	pH 26.2°C	IS:3025 (Part-11)	7.36	5.5 – 9.0
4	Oil & Grease, mg/l	IS:3025 (Part-39)	<1.0	10
5	Total Suspended Solids, mg/l	IS:3025 (Part-17)	17	100
6	Total Dissolved Solids at 105 °C, mg/l	IS:3025 (Part-16)	724	2,100
7	Bio Chemical Oxygen Demand for (3 days at 27°C), mg/l	IS:3025 (Part-44)	08	30
8	Chemical Oxygen Demand, mg/l	IS:3025 (Part-58)	19	250
9	Chlorides as Cl, mg/l	IS:3025 (Part-32)	135	1,000
10	Fluorides as F, mg/l	4500 F-D APHA 23 rd Edn 2012	0.69	2.0
11	Dissolved Phosphate as P, mg/l	IS:3025 (Part-31)	0.08	5.0
12	Percent Sodium	IS:2296-1982	15.21	----
13	Sulphide as S, mg/l	IS:3025 (Part-29)	0.08	2.0
14	Boron as B, mg/l	IS:3025 (Part-57)	0.12	2.0
15	Residual Sodium Carbonate, mg/l	IS:11624	Nil	----
16	Sulphates as SO ₄ , mg/l	IS:3025 (Part-24)	158	1,000
17	Iron as Fe, mg/l	IS:3025 (Part-53)	0.21	3.0
18	Total Volatile Suspended Solids, mg/l (TVSS)	IS:3025 (Part-18)	4.86	----


AUTHORISED SIGNATORY



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TEST REPORT

REF.NO: LAWN/ZCL/NOISE/005/2024

ANNEXURE-2

Date: 03-12-2024

AMBIENT NOISE LEVEL DATA

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

S.No	Locations	Date of Monitoring	Equivalent Noise Levels in dB(A)	
			Day Time	Night Time
1	Mines Boundary - East	25-11-2024	61.40	56.80
2	Mines Boundary - West	25-11-2024	64.20	59.20
3	Mines Boundary - North	25-11-2024	60.10	55.60
4	Mines Boundary - South	25-11-2024	58.60	53.80
5	Mines Office	25-11-2024	62.70	57.40

- Note:**
1. Instrument Make: Lutron SL-4001/G-49271, Calibrated On 21-02-2024, Due On 20-02-2025.
 2. Day time is reckoned in between 6.0 am and 10.0 pm – Limit 75 dB (A).
 3. Night time is reckoned in between 10.0 pm and 6.0 am – Limit 70 dB (A).


AUTHORISED SIGNATORY

Corporate Office : "LAWN HOUSE", #184-C, Vengalrao Nagar, Hyderabad-500038. (T.S.) INDIA. Phone: 66730925, 66730926, Fax: 040-66730926

Branch Office : D.No.31-58-103, MIG-71, Phase-7, Road No.4/4, Dwarakapuri Colony, Kurmanapallem, Vishakhapatnam-530046.Tel : 9701505182

Email: lawnenviro@yahoo.co.in, info@lawnenviro.in, URL : www.lawnenviro.in

o/c



Zuari Cement
HEIDELBERGCEMENT Group

Zuari Cement Limited
CIN: U26942AP2000PLCO50415
Krishna Nagar, Yerraguntla,
District Kadapa,
Andhra Pradesh - 516311,
Tel: +91 85632 75107 / 08
Fax: +91 85632 75101 / 64
www.zuaricements.com

ZCL/ YA/ EM /MINES/2024/ *NOV05*
Date: 19.11.2024

To
The Member Secretary
Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan,
APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada- 520007

Dear Sir,

Please find enclosed the Ambient Air, Noise & Water Quality reports of Zuari Limestone mines of Zuari Cement Ltd –Yerraguntla for the month of Oct 2024.

Thanking you,

Yours faithfully
For Zuari Cement Ltd

GGK
GGK Murthy
Head-Works

Encl: As above

cc :

The Environment Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, 1st Floor, D.No.72/272-5-18,
Kurnool-Chittoor NH 40 Road,
Near Vinayaka Nagar Circle, Kadapa – 516003.



Registered Office:
Krishna Nagar - 516 311
Yerraguntla, Dist. – Kadapa,
Andhra Pradesh, India



ZUARI LIMESTON MINE OF M/S ZUARI CEMENTS LTD

KRISHNAGAR, YERRAGUNTLA, KADAPA –DISTRICT -516311(A.P).

Monitoring Data for the Month of Oct 2024

Location	Mines Office		Near Loading		Near Drilling		Haul Road		Valasapalli		Koduru		Peddannapadu		Tummalapalli	
	Limit	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I
PM ₁₀ µg/m ³	100	54.9	48.5	64.6	56.3	69.2	60.1	57.6	52.6	41.6	44.5	52.9	49.8	58.5	41.7	50.8
PM _{2.5} µg/m ³	60	18.3	16.4	25.4	22.6	28.3	23.9	24.8	19.7	17.5	17.5	20.7	19.5	23.2	16.3	19.4
SO ₂ µg/m ³	80	8.3	6.4	9.3	9.6	11.5	11.5	12.7	10.9	10.3	5.8	6.3	7.7	8.8	10.1	9.4
NOX µg/m ³	80	17.1	15	19.3	20.7	23.8	23.4	25.4	21.8	20.7	16.5	16.5	21.5	18.4	22.9	19.6

II.Quality of Discharge Water: Zero Discharge Water From Mines

Mines harvested water is being used for Cement Plant Operations.

1	Total Dissolved Solid (TDS)	mg/Ltr	658
2	BOD for 3 days at 27 C mg/l	mg/Ltr	07
3	PH		7.61
4	Total Suspended solids (TSS)	mg/Ltr	15

III.Ambient Noise levels:

		Day time	Nighttime	Day -Limit	Night -Limit
1.	Mines Boundary -East	63.9	58.1	75dB	70dB
2.	Mines Boundary -West	65.7	60.7		
3.	Mines Boundary -North	62.4	57.8		
4.	Mines Boundary -South	61.6	56.6		



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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/003/2024

ANNEXURE-1

Date: 19-10-2024

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh - 516 311.

Code	A-9	A-10	A-11	A-12	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	10-10-2024 to 11-10-2024	10-10-2024 to 11-10-2024	10-10-2024 to 11-10-2024	10-10-2024 to 11-10-2024		
Starting Time	8.00 am	8.35 am	9.10 am	9.45 am		
Ending Time	8.00 am	8.35 am	9.10 am	9.45 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	54.9	64.6	69.2	57.6	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	18.3	25.4	28.3	24.8	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	8.3	9.3	11.5	12.7	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	17.1	19.3	23.8	25.4	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

AUTHORISED SIGNATORY

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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/004/2024

ANNEXURE-1

Date: 19-10-2024

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-13	A-14	A-15	A-16	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	11-10-2024 to 12-10-2024	11-10-2024 to 12-10-2024	11-10-2024 to 12-10-2024	11-10-2024 to 12-10-2024		
Starting Time	10.15 am	10.45 am	11.15 am	11.45 am		
Ending Time	10.15 am	10.45 am	11.15 am	11.45 am		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM ₁₀	41.6	52.9	58.5	50.8	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM _{2.5}	17.5	20.7	23.2	19.4	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So ₂	10.3	6.3	8.8	9.4	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No ₂	20.7	16.5	18.4	19.6	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

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REF.NO: LAWN/ZCL/AAQ/001/2024

ANNEXURE-1

Date: 04-11-2024

AMBIENT AIR QUALITY DATA (CORE ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-1	A-2	A-3	A-4	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	26-10-2024 to 27-10-2024	26-10-2024 to 27-10-2024	26-10-2024 to 27-10-2024	26-10-2024 to 27-10-2024		
Starting Time	10.00 am	10.30 am	11.00 am	11.30 am		
Ending Time	10.00 am	10.30 am	11.00 am	11.30 am		
Locations	Mines Office	Near Loading Area	Near Drilling Area	Haulage Road		
PM₁₀	48.5	56.3	60.1	52.6	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	16.4	22.6	23.9	19.7	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	6.4	9.6	11.5	10.9	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaeke Method
No₂	15.9	20.7	23.4	21.8	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method


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TEST REPORT

REF.NO: LAWN/ZCL/AAQ/002/2024

ANNEXURE-1

Date: 04-11-2024

AMBIENT AIR QUALITY DATA (BUFFER ZONE)

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Code	A-5	A-6	A-7	A-8	NAAQ Standards (24 hourly standard)	PROTOCOL/ TEST METHOD
Date	27-10-2024 to 28-10-2024	27-10-2024 to 28-10-2024	27-10-2024 to 28-10-2024	27-10-2024 to 28-10-2024		
Starting Time	11.50 am	12.20 pm	12.50 pm	1.20 pm		
Ending Time	11.50 am	12.20 pm	12.50 pm	1.20 pm		
Locations	Valasapalli Village	Koduru Village	Paddannapadu	Thumalapalli		
PM₁₀	44.5	49.8	41.7	52.6	<100 (µg/m ³)	IS-5182 (Part-23); 2017 / Gravimetric Method
PM_{2.5}	17.5	19.5	16.3	20.8	<60 (µg/m ³)	IS-5182 (Part-24); 2019 / Gravimetric Method
So₂	5.8	7.7	10.1	6.7	<80 (µg/m ³)	IS-5182 (Part-2); 2018 / New West & Gaëke Method
No₂	16.5	21.5	22.9	18.3	<80 (µg/m ³)	IS-5182 (Part-6); 2017 / JACOB & Hochheiser Method
CO	<1.0	<1.0	<1.0	<1.0	<2.0 (mg/m ³) (8 hrs)	CO Analyzer Method

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REF.NO: LAWN/ZCL/WW/006/2024

ANNEXURE-3
Date: 04-11-2024

WASTE WATER ANALYSIS

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

Date of Collection : 26-10-2024
Date of Analysis : 28-10-2024
PROTOCOL : A.P.H.A. 24th Edition, 2017 & IS 3025

S.No.	Parameters	PROTOCOL	MINES PIT	
			Mines Pit Water	GSR 422E (Inland surface water)
1	Colour (Hazen Units)	IS:3025 (Part-4)	<5	See Note - 1
2	Odour	IS:3025 (Part-5)	Agreeable	See Note - 1
3	pH 25.9°C	IS:3025 (Part-11)	7.61	5.5 – 9.0
4	Oil & Grease, mg/l	IS:3025 (Part-39)	<1.0	10
5	Total Suspended Solids, mg/l	IS:3025 (Part-17)	15	100
6	Total Dissolved Solids at 105 °C, mg/l	IS:3025 (Part-16)	658	2,100
7	Bio Chemical Oxygen Demand for (3 days at 27°C), mg/l	IS:3025 (Part-44)	07	30
8	Chemical Oxygen Demand, mg/l	IS:3025 (Part-58)	17	250
9	Chlorides as Cl, mg/l	IS:3025 (Part-32)	123	1,000
10	Fluorides as F, mg/l	4500 F·D APHA 23 rd Edn 2012	0.54	2.0
11	Dissolved Phosphate as P, mg/l	IS:3025 (Part-31)	0.06	5.0
12	Percent Sodium	IS:2296-1982	13.83	----
13	Sulphide as S, mg/l	IS:3025 (Part-29)	0.07	2.0
14	Boron as B, mg/l	IS:3025 (Part-57)	0.10	2.0
15	Residual Sodium Carbonate, mg/l	IS:11624	Nil	----
16	Sulphates as SO ₄ , mg/l	IS:3025 (Part-24)	144	1,000
17	Iron as Fe, mg/l	IS:3025 (Part-53)	0.18	3.0
18	Total Volatile Suspended Solids, mg/l (TVSS)	IS:3025 (Part-18)	4.42	----

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REF.NO: LAWN/ZCL/NOISE/005/2024

ANNEXURE-2
Date: 04-11-2024

AMBIENT NOISE LEVEL DATA

Name of the Industry & : **M/s. ZUARI CEMENT LIMITED.,**
Address : Krishna Nagar P.O, Yerraguntla, Kadapa (Dist),
Andhra Pradesh – 516 311.

S.No	Locations	Date of Monitoring	Equivalent Noise Levels in dB(A)	
			Day Time	Night Time
1	Mines Boundary - East	26-10-2024	63.90	58.10
2	Mines Boundary - West	26-10-2024	65.70	60.70
3	Mines Boundary - North	26-10-2024	62.40	57.80
4	Mines Boundary - South	26-10-2024	61.60	56.60
5	Mines Office	26-10-2024	60.50	55.80

- Note:**
1. Instrument Make: Lutron SL-4001/G-49271, Calibrated On 21-02-2024, Due On 20-02-2025.
 2. Day time is reckoned in between 6.0 am and 10.0 pm – Limit 75 dB (A).
 3. Night time is reckoned in between 10.0 pm and 6.0 am – Limit 70 dB (A).


AUTHORISED SIGNATORY