

No. JK-MIU/EC-COM/2025-26/93/24

Date – 26-05-2025

To

The Deputy Director,
Ministry of Environment, Forest and Climate Change (MoEFCC)
Govt. of India, Indira Paryavaran Bhavan,
New Delhi- 110 003

Sub: **Half Yearly Environmental Clearance Compliance report for the period from October-2024 to March-2025 (2nd Half) for Muddapur Limestone Mine of M/s JK Cement Ltd at Village- Muddapur, Taluka- Mudhol, District- Bagalkot (Karnataka).**

Ref: EC. No. J-11015/383/2006-1A. II (M), dtd.21-01-2008.

Dear Sir,

With reference to aforesaid subject and reference matter, we are hereby submitting the enclosed pointwise environmental clearance compliance report for the period **October-2024 to March-2025 (2nd Half)** of **Muddapur Limestone Mine** of M/s JK Cement Ltd (Limestone production of 2 MTPA) at Village- Muddapur, Taluka-Mudhol, District-Bagalkot, Karnataka.

This for your kind perusal and acknowledge the receipt

Thanking you

Yours faithfully

For Muddapur Limestone

(Unit: JK Cement Ltd)


Prabhat Singh Parihar

(Unit Head)

Enclosures: As above

Corporate Office

📍 Prism Tower 5th Floor, Ninaniya Estate Gwal Pahari,
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🌐 www.jkcement.com

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CC:

- 1- The Addl. Principal Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (South Zone), Koramangala, Bangalore.
- 2- Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi
- 3- Scientist 'D' & Incharge, Central Pollution Control Board, 1st & 2nd Floors, Nisarga Bhavan, A-Block, Thimmaiah, Main Road, 7thD Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru
- 4- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore
- 5- The Environmental officer, Karnataka State Pollution Control Board, Bagalkot – 587102

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Muddapur Limestone Mines, Village- Muddapur, Taluk- Mudhol, Dist.- Bagalkot, Karnataka

Ref: MoEF Letter No. J-11015/383/2006-IA. II (M)/dated. 21st January-2008

EC to Muddapur Limestone Mine (ML area 161.87 ha., 2.0 MTPA of limestone Production) of M/s J.K. Cement Ltd., at village Muddapur, in Mudhol Taluk, Bagalkot-Dist. In Karnataka

EC Compliance Report for the period October- 2024 to March- 2025

Specific Condition:

S.N.	CONDITION	COMPLIANCE STATUS
A.	Specific Conditions	
i)	Land use pattern of nearby village shall be studied and action plan for abatement and compensation for damage to agriculture land /common property land as applicable 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.	Complied. It has been studied with EIA which submitted to concerned authority. Mining is being done as per IBM approved modified mining Plan so there is no damage to agriculture land /common property. Environmental expenditure is attached as Annexure-6 .
ii)	Need based assessment for the nearby villages shall be conducted to study economic measures which can help in upliftment of poor section of society such as development of fodder farm, fruit orchard, vocational training etc. Year wise allocation of funds for implementation of these economic measures shall be reported to the regional office of the ministry within six months.	Complying. Surrounding village people are sustaining their lively hood in this project. The literacy rate and better living standards enhanced due to increased earning capacity of villagers, better medical facility, and transportation and communication facilities. For socio economic development we have established funds to the nearby villagers. Copy of CSR activities enclosed as Annexure-7 .
iii)	Recommendations of NEERI, Nagpur, as mentioned in their report on status of Environment –"Action plan " for the State of Karnataka, as be applicable to this project, shall be reported to the Regional office of the Ministry.	Not Applicable. As per the email communication, dated 15.12.2009 with NEERI director, NEERI has not prepared any report on status of Environment- "Action plan" for state of Karnataka.
iv)	Conservation plan for wildlife shall be prepared in consultation of with the Chief wild life warden and shall be implemented within six months. Necessary allocation of fund for implementation of the same and the status of implementation of the plan shall be reported to the regional office of the Ministry.	Not Applicable as there is no forest area nearby mining lease, however we had submitted an application to forest department on dated 25.08.2007, Branch forest, Lokapur had inspected on 27.08.2007 and submitted a letter to zonal forest Mudhol 28.08.2007 and Zonal forest Mudhol had submitted its report to Deputy Conservator of Forest, Bagalkot Division, Bagalkot on dated 28.08.2007, detailed report as there is no schedule-I species are available in 10 KM radius area, hence no

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		conservation plan for wild life for site is not applicable as per above statement.
v)	Measures for control and preventions of soil erosion and management of silt shall be prepared and submitted to the Regional office of the ministry within six months	Complied. Soil erosion control measures have been mentioned in EIA which is already submitted to MoEF.
vi)	Water quality both for surface as well as ground water in the core zone shall be regularly monitored for contamination due to mining activity and records maintained. In case contamination is observed, measures for control and action taken shall be reported to the State Government as well as the Regional Office of the Ministry within six months.	Complying. Water quality is being monitored regularly by approved lab and no contamination has been observed. Water quality report of surface (mine pit) is attached as Annexure-5 .
vii)	Water bodies shall be developed and utilized to develop Pisciculture. Fishermen cooperative society shall be established with the land losers (if any) and specially the poorer section as members of society. Initial financial assistance either in the form of shared money or other wise and managerial assistance shall be provided so that the members themselves can run the affairs of the society in due course. The project proponent shall arrange marketing tie up so that the society gets fair price of their produce and the profits are equitably shared by the members of the society as regular source of income.	Noted. During final closure of mine, mining pit will be developed as water body and to be utilized to develop Pisciculture.
viii)	Action taken report on issues raised during the public hearing shall be submitted to the Ministry and the State Governments within six months.	Complied and it has been submitted.
ix)	Occupational health and safety measures for the workers including training on malaria eradication, HIV, health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full time doctor who is trained in occupational health surveillance. Records of the health of the workers shall be maintained.	Complying. Initial and periodical medical examinations of all mine workers are being done on a regular basis as required under Mines Rules 1955 and training on various medical aspects is being imparted. The company has engaged a fulltime doctor who is trained in Occupational health surveillance. Records are being maintained.
x)	Top soil/solid waste(if any) shall be stacked properly with proper slope and adequate safe guards and shall back filled for reclamation and rehabilitation of the mined area	Complying. Topsoil is being utilized for plantation and there is no solid waste generation during the course of mining.

xi)	Over burden if any 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 30m, each stage shall preferably be of 10m and overall slope of the dump shall not exceeded 28°. The OB dump shall be backfilled. The OB 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 bases.	Will be complied. At present, there are no overburden dumps within the lease area.
xii)	Garland drains shall be constructed to arrest silt and sediment flows from soil, and mineral dumps. The water so collected shall be utilized for watering the mine areas, roads, green belt development etc. The drains shall be regularly de-silted particularly after monsoon and maintained properly. Garland drain of appropriate size, gradient and length shall be designed keeping 50% safety margin over and above peak sudden rain fall (based on 50 years' data) and maximum discharge in the area adjoining the mine site. Sump capacity will also provide adequate retention period to allow proper settling of silt materials. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals. Check dams and gully checks shall be constructed across nallahs (if any) flowing through the lease area.	Complying. Garland drains have been made around the pit. The collected water in the pit is being used for green belt development and water spraying on haul roads for controlling fugitive dust emission. There is no nallah within the lease area.
xiii)	Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of mines.	Complying. Slope of mining bench and ultimate pit limit are followed as per the mining plan approved by Indian Bureau of Mines.

xiv)	Green Belt Development shall be carried out considering CPCB guidelines including selection of plan species and in consultation with DFO. Herbs, shrubs shall also form a part of a forestation programme besides tree plantation. Plantation shall be raised in 22.0 ha around the ML area, haul roads, OB dump sites etc. the density of the trees shall be not less than 2500 plants per ha. The company shall involve local people with the help of self-help group for plantation programme.	Complying. Green Belt Development is being done with native species and in consultation with DFO as committed in Mining plan.
xv)	Details of the year wise a forestation programmed already under take as well as proposed to be taken of including rehabilitation of mined out areas shall be submitted to the Ministry within six months.	Complying, Details of the year wise a forestation programme is already submitted to MoEF and Plantation is being done as per mining plan.
xvi)	The project authority shall implement suitable conservation measures to augment ground water resource in the areas in consultation with the Regional Director, Central Ground Water Board. Status of implementation shall be reported to the regional office of the Ministry from time to time.	Complying. Surface/rainwater harvested in pit recharges ground water as water percolates down wards due to inclined strata.
xvii)	Prior permission from the competent authority shall be obtained for extraction of ground water, if any.	Complied. Prior permission taken from Karnataka Ground water authority for extraction of ground water.
xviii)	Vehicles used for transportation of ores and other mining operation shall have valid permission as prescribed under Central Motor Vehicles rules,1989 and its amendments. Transporting of ores shall be done covered with a tarpaulin or other suitable enclosures so that no dust particles /fine matters escape during the course of transportation. No overloading of ores for transportations shall be under taken.	Complying. Vehicles used for transportation of ores and other mining operation have valid permission as prescribed under Central Motor Vehicles Rules,1989 and its amendments. It is ensured that no spillage is occurred during transportation.
xix)	Drilling and blasting (if any) shall be conducted by using dust extractors/ wet drilling.	Complying. Wet drilling operation is being practiced.

xx)	Village roads through which transportation of ores are being carried out shall be regularly maintained by the company at its own expenses.	Complying. Village roads through which transportation of ores are being carried out is being regularly maintained by the company at its own expenses.
xxi)	A final mine closure plan, along with details of corpus funds, shall be submitted to the Ministry of Environments & Forests within six months, in advance of final mine closure for approval.	Noted.
B	General Condition:	
i)	No change in mining technology and scope of working shall be made without prior approval of Ministry of Environment & Forests.	Noted.
ii)	No change in calendar plan including excavation, quantum of mineral, limestone and waste shall be made.	Noted.
iii)	Four Ambient Air Quality – monitoring station shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x monitoring. Location of the stations should be decided based on the metrological data, Topographical features and Environmentally and ecologically sensitive targets and frequency of monitoring should be under taken in consultation with the State Pollution Control Board.	Complied. Four Ambient Air Quality monitoring stations have been established in core and buffer zone.
iv)	Data on Ambient Air Quality (RSPM, SPM, SO ₂ , and NO _x) should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/Central Pollution Control Boards once in six months.	Complying. Ambient air quality data is being submitted to SPCB/CPCB and MoEF, Bangalore on six monthly basis. AAQM data is attached as Annexure-2 .
v)	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	Complying. Water is spraying on the haul roads, loading and unloading points by tankers. Fugitive Dust emission reports enclosed as Annexure-3 .
vi)	Measures shall be taken for control of noise level below 85 dBA in the work environments. Workers engaged in operations of HEMM, etc shall be provided with ear plugs/ muffs.	Being complied. HEMM maintenance is being done regularly. For workers earplugs/ muffs have been provided. Noise Level Monitoring is enclosed as Annexure-4 .

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Ref: MoEF Letter No. J-11015/383/2006-IA. II (M)/dated. 21st January-2008

vii)	Industrial wastewater (Works shop and waste water 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 instilled before discharge of effluents.	Not applicable, there is no workshop in mines area and no wastewater discharged from mines.
viii)	Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information of Safety and Health aspects.	Complying. Personnel working in dusty areas have been provided with protective respiratory devices and imparted adequate training and information of Safety and Health aspects.
ix)	A separate Environmental Management cell with suitable qualified personnel shall be set up the control of Senior Executive, who will be report directly to the head of the organization.	Complied. A separate Environmental Management cell with suitable qualified personnel has been set up, who is directly reporting to the head of the organization.
x)	The project authorities shall informed to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the project by the concern 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.	Complied.
xii)	The project authorities shall informed to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the project by the concern authorities and the date of start of land development work.	Complied.
xiii)	The Regional Office of the Ministry, 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 data/ information /monitoring reports.	Agreed.

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xiv)	A copy of clearance letter will be marked to concerned panchayat /local NGO, if any from whom suggestion /representation has been received while processing the proposal.	Complied.
xv)	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.	Noted.
xvi)	The project authorities shall advertise at least in two local Newspapers widely circulated , one of which shall be in the vernacular languages of the localities concern within 7days of issue of the clearance letter informing that the project has been accorded Environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of the Environment & Forests at http: www.envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of the Ministry located at Bangalore.	Complied.



COSMO CONSCIOUS RESEARCH LABORATORY

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AIR QUALITY MONITORING DATA

1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd), P.O. Muddapur-587122, Dist. Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particulars of Sample Collected : Source Emission Air Quality Monitoring
5. Sample Condition : Satisfactory
6. Analysis Start Date : 31.10.2024
7. Analysis Completion Date : 02.11.2024
8. Report Issue Date : 04.11.2024
9. Month of Monitoring : October 2024
10. Environmental condition at the time of sampling : 29.2°C

Name of the Station/ Date of Sample Collection	Lab Sample Code	Particulars of Sample Collected			
		SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
AAQM Locations for Muddapur Mines		NAAQ standards 2009			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
AIX-Near Muddapur Mines Office					
25.10.2024	435, 435, C02, 240	10	19	58	15
AX- Petlur					
24.10.2024	430, 430, C08, 244	20	14	52	13
AXI-Thimmapur Village					
24.10.2024	433, 433, C05, 237	18	11	49	23
AXII- D-Colony, D-block quarters					
25.10.2024	436, 436, C03, 238	16	17	53	21

END OF REPORT

Note: 1. SO₂ - Sulfur Dioxide, NO₂ - Nitrogen Dioxide, PM₁₀ - Particulate Matter (size less than 10 µm), PM_{2.5} - Particulate Matter (size less than 2.5 µm).

2. The above results are related only to the samples collected & tested on the particular date and time.

3. RA - Reaffirmed.

Name of the Equipment	Eq. ID. No.	Date of Calibration	Calibration Due on
Combo Sampler	230568 to 230571	30.11.2023	29.11.2024

ANALYZED BY:

(G. Dhavaleshwar)
Analyst

VERIFIED BY:

(P. Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



AIR QUALITY MONITORING DATA


1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
Dist.Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particulars of Sample Collected : Source Emission Air Quality Monitoring
5. Sample Condition : Satisfactory
6. Analysis Start Date : 20.11.2024
7. Analysis Completion Date : 23.11.2024
8. Report Issue Date : 29.11.2024
8. Month of Monitoring : November 2024
9. Environmental condition at the time of sampling : 29.6°C
10. Unique Lab Report Number : TC148922400000000218F

Name of the Station/ Date of Sample Collection	Lab Sample Code	Particulars of Sample Collected			
		SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
AAQM Locations for Muddapur Mines		NAAQ standards 2009			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
AIX-Near Muddapur Mines Office					
21.11.2024	531, 531, C20, 793	17	14	49	20
AX- Petlur					
20.11.2024	525, 525, C15, 789	18	16	58	18
AXI-Thimmapur Village					
20.11.2024	527, 527, C13, 797	13	20	53	10
AXII- D-Colony, D-block quarters					
21.11.2024	528, 528, C17, 796	10	17	54	16

END OF REPORT

- Note: 1. SO₂ - Sulphur Dioxide, NO₂ - Nitrogen Dioxide, PM₁₀ - Particulate Matter (size less than 10 µm), PM_{2.5} - Particulate Matter (size less than 2.5 µm).
2. The above results are related only to the samples collected & tested on the particular date and time.
3. RA - Reaffirmed.

Name of the Equipment	Eq. ID. No.	Date of Calibration	Calibration Due on
Combo Sampler	230568 to 230571	30.11.2023	29.11.2024

ANALYZED BY: 
(G.Dhavalleshwar)
Analyst

VERIFIED BY: 
(P.Harika)
Technical Manager

AUTHORISED SIGNATORY: 
(M. Shashikala)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Recognized by MoEF & CC, Accredited by NABL (ISO/IEC: 17025:2017)
vide certificate No : TC-14892 and Certified by ISO (45001:2018)



Certificate No:TC14892

AIR QUALITY MONITORING DATA

1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
Dist.Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particulars of Sample Collected : Source Emission Air Quality Monitoring
5. Sample Condition : Satisfactory
6. Analysis Start Date : 12.12.2024
7. Anaysis Completion Date : 14.12.2024
8. Report Issue Date : 30.12.2024
8. Month of Monitoring : December 2024
9. Environmental condition at the time
of sampling : 29.0°C
10. Unique Lab Report Number : TC148922400000000249F

Name of the Station/ Date of Sample Collection	Lab Sample Code	Particulars of Sample Collected			
		SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
AAQM Locations for Muddapur Mines		NAAQ standards 2009			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
AIX-Near Muddapur Mines Office					
12.12.2024	585, 585, C29, 541	19	12	57	10
AX- Petlur					
11.12.2024	582, 582, C30, 540	21	10	54	22
AXI-Thimmapur Village					
12.12.2024	587, 587, C32, 543	16	19	52	20
AXII- D-Colony, D-block quarters					
13.12.2024	591, 591, C35, 534	13	16	49	21

END OF REPORT

Note: 1. SO₂ - Sulfur Dioxide, NO₂ - Nitrogen Dioxide, PM₁₀ - Particulate Matter (size less than 10 µm), PM_{2.5} - Particulate Matter (size less than 2.5 µm).

2. The above results are related only to the samples collected & tested on the particular date and time.

3. RA - Reaffirmed.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory

3 of 59



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DQS Inc.



CCRL
OHSAS 18001:2007



AIR QUALITY MONITORING DATA

1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd), P.O.Muddapur-587122,
Dist.Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particulars of Sample Collected : Source Emission Air Quality Monitoring
5. Sample Condition : Satisfactory
6. Analysis Start Date : 08.01.2025
7. Analysis Completion Date : 13.01.2025
8. Report Issue Date : 25.01.2025
8. Month of Monitoring : January 2025
9. Environmental condition at the time of sampling : 29.0°C
10. Unique Lab Report Number : TC14892250000000011F


Name of the Station/ Date of Sample Collection	Lab Sample Code	Particulars of Sample Collected			
		SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
AAQM Locations for Muddapur Mines		NAAQ standards 2009			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
AIX-Near Muddapur Mines Office					
08.01.2025	669, 669, C11, 007	17	15	49	21
AX- Peflur					
07.01.2025	663, 663, C06, 066	21	12	52	17
AXI-Thimmapur Village					
07.01.2025	665, 665, C14, 063	10	18	56	20
AXII- D-Colony, D-block quarters					
08.01.2025	670, 670, C07, 055	13	20	58	16


END OF REPORT


Note: 1. SO₂ – Sulfur Dioxide, NO₂ – Nitrogen Dioxide, PM₁₀ – Particulate Matter (size less than 10 µm), PM_{2.5} – Particulate Matter (size less than 2.5 µm).

2. The above results are related only to the samples collected & tested on the particular date and time.

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ANALYZED BY: 
(G. Dhavaleshwar)
Analyst

VERIFIED BY: 
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Technical Manager

AUTHORISED SIGNATORY: 
(M. Shashikala)
Head of the Laboratory



AIR QUALITY MONITORING DATA

1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
Dist.Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particulars of Sample Collected : Source Emission Air Quality Monitoring
5. Sample Condition : Satisfactory
6. Analysis Start Date : 21.02.2025
7. Analysis Completion Date : 26.02.2025
8. Report Issue Date : 28.02.2025
8. Month of Monitoring : February 2025
9. Environmental condition at the time of sampling : 32.2°C
10. Unique Lab Report Number : TC148922500000000124F

Name of the Station/ Date of Sample Collection	Lab Sample Code	Particulars of Sample Collected			
		SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
AAQM Locations for Muddapur Mines		NAAQ standards 2009			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
AIX-Near Muddapur Mines Office					
20.02.2025	802, 802, C10, 127	11	14	52	22
AX- Petlur					
21.02.2025	808, 808, C07, 122	12	17	54	23
AXI-Thimmapur Village					
21.02.2025	807, 807, C05, 121	17	11	57	10
AXII- D-Colony, D-block quarters					
21.02.2025	809, 809, C09, 126	19	18	59	20

END OF REPORT

Note: 1. SO₂ - Sulfur Dioxide, NO₂ - Nitrogen Dioxide, PM₁₀ - Particulate Matter (size less than 10 µm), PM_{2.5} - Particulate Matter (size less than 2.5 µm).

2. The above results are related only to the samples collected & tested on the particular date and time.

3. RA - Reaffirmed.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Accredited by NABL (ISO/IEC: 17025:2017) vide certificate No: TC-14892
And Certified by ISO (45001:2018)



Certificate No:TC-14892

AIR QUALITY MONITORING DATA

1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
Dist.Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particulars of Sample Collected : Source Emission Air Quality Monitoring
5. Sample Condition : Satisfactory
6. Analysis Start Date : 21.03.2025
7. Analysis Completion Date : 22.03.2025
8. Report Issue Date : 31.03.2025
8. Month of Monitoring : March 2025
9. Environmental condition at the time
of sampling : 33.2°C
10. Unique Lab Report Number : TC148922500000000244F

Name of the Station/ Date of Sample Collection	Lab Sample Code	Particulars of Sample Collected			
		SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)
AAQM Locations for Muddapur Mines		NAAQ standards 2009			
		80 (µg/m ³)	80 (µg/m ³)	100 (µg/m ³)	60 (µg/m ³)
AIX-Near Muddapur Mines Office					
19.03.2025	875, 875, C14, 848	21	18	60	20
AX- Petlur					
19.03.2025	876, 876, C18, 845	19	12	54	13
AXI-Thimmapur Village					
19.03.2025	873, 873, C13, 846	10	15	51	13
AXII- D-Colony, D-block quarters					
20.03.2025	880, 880, C22, 701	14	11	55	19

END OF REPORT

- Note: 1. SO₂ – Sulfur Dioxide, NO₂ – Nitrogen Dioxide, PM₁₀ – Particulate Matter (size less than 10 µm), PM_{2.5} – Particulate Matter (size less than 2.5 µm).
2. The above results are related only to the samples collected & tested on the particular date and time.
3. RA – Reaffirmed.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(F.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikbla)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Recognized by MoEF & CC, Accredited by NABL (ISO/IEC: 17025:2017)
vide certificate No : TC-14892 and Certified by ISO (45001:2018)

Anneexure -3

FUGITIVE EMISSION AIR QUALITY MONITORING DATA

1. Name of the Industry : M/s. JK Cement Works, Muddapur,
2. Address : (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
Dist.Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particular: of Sample Collected : Fugitive Emission Air Quality Monitoring
5. Sample Condition : Satisfactory
6. Analysis Start Date : 19.12.2024
7. Analysis Completion Date : 20.12.2024
8. Report Issue Date : 30.12.2024
9. Month of Monitoring : December 2024
10. Environmental condition at the time of sampling : 29.2°C
11. Method adopted (Sampling & Analysis) : IS 5182 (Part 4) :2006

Sl. No.	Date of Sample Collection	Name of the Station	Lab Sample Code	SPM (mg/m ³)	IBM Standard (mg/m ³)
Fugitive Locations for Muddapur Mines					
1.	12.12.2024	Drilling Area	523012	0.86	1.2
2.	12.12.2024	Loading Area	523006	0.98	1.2
3.	13.12.2024	Haulage Road	523014	0.90	1.2
4.	13.12.2024	Waste Dumping Site	523015	1.03	1.2
5.	12.12.2024	Service Road	523004	1.01	1.2

END OF REPORT

Note: 1. SPM - Suspended Particulate Matter.

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Accredited by NABL (ISO/IEC: 17025:2017) vide certificate No: TC-14892

And Certified by ISO (45001:2018)

FUGITIVE EMISSION AIR QUALITY MONITORING DATA

1. Name of the Industry : M/s. JK Cement Works, Muddapur,
2. Address : (Unit: J.K.Cement Ltd), P.O. Muddapur-587122,
Dist. Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particulars of Sample Collected : Fugitive Emission Air Quality Monitoring
5. Sample Condition : Satisfactory
6. Analysis Start Date : 25.03.2025
7. Analysis Completion Date : 26.03.2025
8. Report Issue Date : 31.03.2025
9. Month of Monitoring : March 2025
10. Environmental condition at the time of sampling : 33.2°C
11. Method adopted (Sampling & Analysis) : IS 5182 (Part 4) :2006

Sl. No.	Date of Sample Collection	Name of the Station	Lab Sample Code	SPM (mg/m ³)	IBM Standard (mg/m ³)
Fugitive Locations for Muddapur Mines					
1.	19.03.2025	Drilling Area	514486	0.92	1.2
2.	19.03.2025	Loading Area	514485	1.01	1.2
3.	19.03.2025	Haulage Road	514490	0.94	1.2
4.	20.03.2025	Waste Dumping Site	514489	1.06	1.2
5.	20.03.2025	Service Road	514480	0.86	1.2

END OF REPORT

Note: 1. SPM – Suspended Particulate Matter.

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Recognized by MoEF & CC, Accredited by NABL (ISO/IEC: 17025:2017)
vide certificate No : TC-14892 and Certified by ISO (45001:2018)

NOISE LEVEL MONITORING DATA

1. Name of the Client : M/s. JK Cement Works, Muddapur,
2. Address : (Unit: J.K.Cement Ltd), P.O. Muddapur-587122,
Dist. Bagalkot (Karnataka) India
3. Sample Collected By : Cosmo Conscious Research Laboratory
4. Particulars of Sample Collected : Noise Monitoring
5. Sample Condition : Satisfactory
6. Monitoring Date : 12.12.2024
7. Month of Monitoring : December 2024

I. Muddapur Mines (Buffer Zone) :


Sl. No.	Code	Sampling Location	Date	Unit	L max.	L eq.		L min.
						Day	Night	
1.	N1	Muddapur Mines North Boundary	12.12.2024	dB (A)	62.4	54.2	53.2	52.3
2.	N2	Muddapur Mines Office	12.12.2024	dB (A)	60.4	53.8	52.6	51.6

II. Muddapur Mines (Core Zone) :

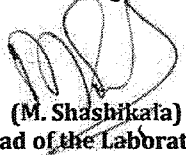
Sl. No.	Code	Sampling Location	Date	Unit	Day	
					Max.	Min.
1.	N1	Muddapur Mines Drilling Time	12.12.2024	dB	69.2	64.2
2.	N2	Muddapur Mines Waste Dump Site	12.12.2024	dB	64.3	62.3
3.	N3	Muddapur Mines Service Road	12.12.2024	dB	68.2	59.3
4.	N4	Excavator Muddapur Mine	12.12.2024	dB	69.1	62.9

MOEF ambient Noise standards in dB(A) Leq (No.41, Dt.11.01.2010)	Residential Area limits dB(A) Leq		Industrial Area limits dB(A) Leq	
	Day time	Night time	Day time	Night time
	55	45	75	70
Method adopted	Integrated Sound Level Meter			

Note: 1. The above results are related only to the samples collected & tested on the particular date and time

MONITORED BY: 
(G. Dhavaleshwar)
Analyst

VERIFIED BY: 
(P. Harika)
Technical Manager

AUTHORISED SIGNATORY: 
(M. Shashikala)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Accredited by NABL (ISO/IEC: 17025:2017) vide certificate No: TC-14892
And Certified by ISO (45001:2018)

NOISE LEVEL MONITORING DATA

- Name of the Client : M/s. JK Cement Works, Muddapur,
- Address : (Unit: J.K.Cement Ltd), P.O. Muddapur-587122, Dist. Bagalkot (Karnataka) India
- Sample Collected By : Cosmo Conscious Research Laboratory
- Particulars of Sample Collected : Noise Monitoring
- Sample Condition : Satisfactory
- Monitoring Date : 19.03.2025
- Month of Monitoring : March 2025

I. Muddapur Mines (Buffer Zone) :

Sl. No.	Code	Sampling Location	Date	Unit	Day	
					Max.	Min.
1.	N1	Muddapur Mines North Boundary	19.03.2025	dB	61.2	53.2
2.	N2	Muddapur Mines Office	19.03.2025	dB	60.8	51.1

II. Muddapur Mines (Core Zone) :

Sl. No.	Code	Sampling Location	Date	Unit	Day	
					Max.	Min.
1.	N1	Muddapur Mines Drilling Time	19.03.2025	dB	65.2	62.3
2.	N2	Muddapur Mines Waste Dump Site	19.03.2025	dB	63.2	61.2
3.	N3	Muddapur Mines Service Road	19.03.2025	dB	58.0	56.2
4.	N4	Excavator Muddapur Mine	19.03.2025	dB	64.2	62.1

MOEF ambient Noise standards in dB(A) Leq (No.41, Dt.11.01.2010)	Residential Area limits dB(A) Leq		Industrial Area limits dB(A) Leq	
	Day time	Night time	Day time	Night time
	55	45	75	70
Method Adopted	Integrated Sound Level Meter			

Note: 1. The above results are related only to the samples collected & tested on the particular date and time

MONITORED BY:

(G. Dhavaleshwar)
Analyst

VERIFIED BY:

(P. Harika)
Technical Manager

AUTHORISED SIGNATORY: (M. Shashikala)
Head of the Laboratory



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DQS Inc.



CCRL
OHSAS 18001:2007



Analysis Report of Mines Pit Water

1. Name of the Industry : M/s. JK Cement Works, Muddapur, (Unit: J.K.Cement Ltd), P.O. Muddapur-
2. Address : 587122, Dist. Bagalkot (Karnataka) India
3. Sample collected by : Cosmo Conscious Research Laboratory
4. Name of the Location : Muddapur Mines
5. Particulars of sample collected : Mines Pit Water-2
6. Field Sample code : JKSW5
7. Lab Sample Code : CCRL W 9837
8. Date of sample collection : 30.10.2024
9. Date of sample Received : 31.10.2024
10. Date of sample Analyzed : 31.10.2024 to 04.11.2024
11. Report Issue Date : 04.11.2024
12. Method of Sampling : IS:17614 (Part-I) 2021
13. Environmental condition at the time of sampling : 29.2°C

Sl. No	Parameters	Protocol	Unit of Measure ment	Results	General Standards for Inland Surface water Schedule- VI (EPA-'86)
				Oct-'24	Limits
PHYSICAL					
1.	Colour	IS: 3025 (PART 4)- 1984, RA-2021, Platinum cobalt Method	Hazen units	<1	-
2.	Conductivity	IS:3025 (PART 14)-1984, RA-2019, Electrometric method	µs/cms	377	-
3.	Total Dissolved Solids	IS:3025 (part 16)-1984, RA-2017, Gravimetric method	mg/L	225	-
4.	pH	IS:3025 (part 11)-1983, RA-2022, Electrometric method	-	8.27	5.50 to 9.0
5.	Turbidity	IS:3025 (part 10)-1984, RA-2017, Nephelometric method	NTU	0.40	-
CHEMICAL					
6.	Dissolved Phosphate as PO ₄	IS:3025 (part 31)-1988, RA-2021 Stannous chloride method	mg/L	0.516	5
7.	Sodium as Na	IS:3025 (part 45)-1993, RA-2019 Flame Emissionphotometric method	mg/L	18.1	-
8.	Potassium as K	IS:3025 (part 17)-1984,, RA-2019 Flame Emissionphotometric method	mg/L	1.10	-
9.	Calcium as Ca	IS:3025 (part 40)-1991, RA-2019 EDTA Titrimetric method	mg/L	29.66	-
10.	Magnesium as Mg	APHA 23 rd Edition 3500-B-Mg By calculation	mg/L	29.21	-
11.	Total Hardness as CaCO ₃	IS:3025 (part 21)-1983, RA-2019 EDTA Titrimetric method	mg/L	144	-
12.	Chloride as Cl	IS:3025 (part 32)-1988, RA-2019 Argentometric Method	mg/L	9.50	-
13.	Sulphate as SO ₄	APHA 23 rd Edition 4500-SO ₄ ²⁻ -E (P.NO.4-190-191) Turbidimetric method	mg/L	5.92	-

Cont'd...



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Recognized by MoEF & CC, and Certified by ISO (45001:2018)

Sl. No	Parameters	Protocol	Unit of Measurement	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Oct.-24	Limits
14.	Fluoride as F	APHA 23 rd Edition 4500-F D. (P.NO. 4-87 - 88)SPADNS Method	mg/L	0.61	2
15.	Nitrate Nitrogen as NO ₃	IS:3025 (part 34)-1988, RA-2019 Chromotropic acid method	mg/L	0.76	10
16.	Total Alkalinity as CaCO ₃	IS:3025 (part 23)-1986, RA-2019 Indicator method	mg/L	125	-
TRACE METALS					
17.	Total Iron as Fe	APHA 23 rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
18.	Nickel as Ni	APHA 23 rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
19.	Manganese as Mn	APHA 23 rd Edition 3111B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	2
20.	Copper as Cu	APHA 23 rd Edition 3111B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
21.	Zinc as Zn	APHA 23 rd Edition 3111 B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
22.	Lead as Pb	APHA 23 rd Edition 3111 B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	0.10
23.	Chromium as Cr	APHA 23 rd Edition 3111 B. (p.no.3-18) Direct Air Acetylene Flame Method	mg/L	BDL	2

End of Report

Note: 1. RA: Reaffirmed BDL- Below detectable limit, (For trace metals <0.1, Oil & grease <4.0).

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY: (M. Shashikala)
Head of the Laboratory



Analysis Report of Mines Pit Water

1. Name of the Industry : M/s. JK Cement Works, Muddapur,
(Unit: J.K.Cement Ltd),P.O.Muddapur-
2. Address : 587122,
Dist.Bagalkot (Karnataka) India
3. Sample collected by : Cosmo Conscious Research Laboratory
4. Name of the Location : Muddapur Mines
5. Particulars of sample collected : Mines Pit Water-2
6. Field Sample code : JKSW5
7. Lab Sample Code : CCRL W 9837
8. Date of sample collection : 30.10.2024
9. Date of sample Received : 31.10.2024
10. Date of sample Analyzed : 31.10.2024 to 04.11.2024
11. Report Issue Date : 04.11.2024
- 12.. Method of Sampling : IS:17614 (Part-I) 2021

Sl. No	Parameters	Protocol	Unit of Measurement	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Oct.'-24	Limits
TRACE METALS					
1.	Mercury as Hg	APHA 23 rd Edition 3112 B. (p.no.3-23) Direct Air Acetylene e Flame Method	mg/L	BDL	0.01

End of Report

Note: 1. BDL- Below detectable limit. (Mercury <0.001).

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



Analysis Report of Mines Pit Water

1. Name of the Industry	:	M/s. JK Cement Works, Muddapur, (Unit: J.K.Cement Ltd),P.O.Muddapur-
2. Address	:	587122, Dist.Bagalkot (Karnataka) India
3. Sample collected by	:	Cosmo Conscious Research Laboratory
4. Name of the Location	:	Muddapur Mines
5. Particulars of sample collected	:	Mines Pit Water-2
6. Field Sample code	:	JKSW5
7. Lab Sample Code	:	CCRL W 9872
8. Date of sample collection	:	22.11.2024
9. Date of sample Received	:	22.11.2024
10. Date of sample Analyzed	:	23.11.2024 to 28.11.2024
11. Report Issue Date	:	29.11.2024
12. Method of Sampling	:	IS:17614 (Part-I) 2021
13. Environmental condition at the time of sampling	:	29.4°C
14. Unique Lab Report Number	:	TC148922400000000223F

Sl. No	Parameters	Protocol	Unit of Measure ment	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Nov.'-24	Limits
PHYSICAL					
1.	Colour	IS: 3025 (PART 4)- 1984, RA-2021, Platinum cobalt Method	Hazen units	<1	-
2.	Conductivity	IS:3025 (PART 14)-1984, RA-2019, Electrometric method	µs/cms	611	-
3.	Total Dissolved Solids	IS:3025 (part 16)-1984, RA-2017, Gravimetric method	mg/L	424	-
4.	pH	IS:3025 (part 11)-1983, RA-2022, Electrometric method	-	7.82	5.50 to 9.0
5.	Turbidity	IS:3025 (part 10)-1984, RA-2017, Nephelometric method	NTU	1.80	-
CHEMICAL					
6.	Dissolved Phosphate as PO ₄	IS:3025 (part 31)-1988, RA-2021 Stannous chloride method	mg/L	0.212	5
7.	Sodium as Na	IS:3025 (part 45)-1993, RA-2019 Flame Emissionphotometric method	mg/L	101.1	-
8.	Potassium as K	IS:3025 (part 17)-1984,, RA-2019 Flame Emissionphotometric method	mg/L	0.90	-
9.	Calcium as Ca	IS:3025 (part 40)-1991, RA-2019 EDTA Titrimetric method	mg/L	37.67	-
10.	Magnesium as Mg	APHA 23 rd Edition 3500-B-Mg By calculation	mg/L	40.78	-
11.	Total Hardness as CaCO ₃	IS:3025 (part 21)-1983, RA-2019 EDTA Titrimetric method	mg/L	262	-
12.	Chloride as Cl	IS:3025 (part 32)-1988, RA-2019 Argentometric Method	mg/L	82.47	-
13.	Sulphate as SO ₄	APHA 23 rd Edition 4500-SO ₄ ²⁻ -E (P.NO.4-190-191) Turbidimetric method	mg/L	31.81	-

Cont'd...



Sl. No	Parameters	Protocol	Unit of Measurement	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Nov.'-24	Limits
14.	Fluoride as F	APHA 23 rd Edition 4500-F- D. (P.NO. 4-87 - 88)SPADNS Method	mg/L	0.52	2
15.	Nitrate Nitrogen as NO ₃	IS:3025 (part 34)-1988, RA-2019 Chromotropic acid method	mg/L	1.16	10
16.	Total Alkalinity as CaCO ₃	IS:3025 (part 23)-1986, RA-2019 Indicator method	mg/L	195	-
TRACE METALS					
17.	Total Iron as Fe	APHA 23 rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
18.	Nickel as Ni	APHA 23 rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
19.	Manganese as Mn	APHA 23 rd Edition 3111B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	2
20.	Copper as Cu	APHA 23 rd Edition 3111B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
21.	Zinc as Zn	APHA 23 rd Edition 3111 B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
22.	Lead as Pb	APHA 23 rd Edition 3111 B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	0.10
23.	Chromium as Cr	APHA 23 rd Edition 3111 B. (p.no.3-18) Direct Air Acetylene Flame Method	mg/L	BDL	2

End of Report

Note: 1. RA: Reaffirmed BDL- Below detectable limit, (For trace metals <0.1, Oil & grease <4.0).

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:


(G.Dhavaleshiwar)
Analyst

VERIFIED BY:


(P.Harika)
Technical Manager

AUTHORISED SIGNATORY: 
(M. Shashikala)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

ISO 15189:2013 CERTIFIED BY MIRA & C. TECHNICAL BY ISO 15189:2013 (PART 1) (2021)
The certificate No. P-16592 and Certified by ISO 15189:2013

Analysis Report of Mines Pit Water

1. Name of the Industry : M/s. JK Cement Works, Muddapur,
(Unit: J.K.Cement Ltd),P.O.Muddapur-
2. Address : 587122,
Dist.Bagalkot (Karnataka) India
3. Sample collected by : Cosmo Conscious Research Laboratory
4. Name of the Location : Muddapur Mines
5. Particulars of sample collected : Mines Pit Water-2
6. Field Sample code : JKSW5
7. Lab Sample Code : CCRL W 9872
8. Date of sample collection : 22.11.2024
9. Date of sample Received : 22.11.2024
10. Date of sample Analyzed : 23.11.2024 to 28.11.2024
11. Report Issue Date : 29.11.2024
12. Method of Sampling : IS:17614 (Part-I) 2021

Sl. No	Parameters	Protocol	Unit of Measurement	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Nov.'-24	Limits
TRACE METALS					
1.	Mercury as Hg	APHA 23 rd Edition 3112 B. (p.no.3-23) Direct Air Acetylene e Flame Method	mg/L	BDL	0.01

End of Report

Note: 1. BDL- Below detectable limit. (Mercury <0.001).

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



WATER QUALITY MONITORING DATA (GROUND WATER)

1. Name of the Project : M/s. JK Cement Works, Muddapur,
 2. Name of the Client : (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
 3. Sample collected by : Dist.Bagalkot (Karnataka) India
 4. Name of the Location : Cosmo Conscious Research Laboratory
 5. Particulars of sample collected : Muddapur Mines Office
 6. Field Sample code : Bore well
 7. Lab Sample Code : JKGW9
 8. Date of sample collection : CCRL W 9894
 9. Date of sample Received : 17.12.2024
 10. Date of sample Analyzed : 17.12.2024
 11. Report Issue Date : 17.12.2024 to 26.12.2024
 12. Method of Sampling : 30.12.2024
 13. Environmental condition at the time of sampling : IS:17614 (Part-I) 2021
 14. Unique Lab Report Number : 29.2°C
- TC148922400000000257F

Sl. No.	Parameters	Protocol	Unit of Measure ment	Results	Drinking water specification Std. as per IS:10500:2012	
				Dec.'24	Desirable Limits	Permissible Limits
PHYSICAL						
1.	Colour	IS: 3025 (PART 4)- 1984, RA-2021, Platinum cobalt Method	Hazen units	<1	5	15
2.	Temperature	IS:3025 (PART 9)-1984, RA-2023, Thermometer	°C	25.50	-	-
3.	Conductivity	IS:3025 (PART 14)-1984, RA-2019, Electrometric method	µs/cms	3210	-	-
4.	Total Dissolved Solids	IS:3025 (part 16)-1984, RA-2023, Gravimetric method	mg/L	1960	500	2000
5.	pH	IS:3025 (part 11)-1983, RA-2012, Electrometric method	-	6.95	6.5 to 8.5	No relaxation
6.	Turbidity (NTU)	IS:3025 (part 10)-1984, RA-2023, Nephelometric method	NTU	1.20	1	5
7.	Total Suspended Solids	IS:3025 (part 17)-1984, RA-2022, Gravimetric Method	mg/L	2	-	-
CHEMICAL						
8.	Dissolved Oxygen	IS:3025 (part 38)-1989, RA-2019, Winkler titrimetric azide modification	mg/L	7.10	-	-
9.	Biochemical Oxygen Demand for 3 days at 27°C	IS:3025 (part 44)-1993,, RA-2023 Three days BOD at 27°C	mg/L	<1	-	-
10.	Chemical Oxygen Demand	APHA 24 th Edition 5220-B Open reflux method	mg/L	<1	-	-
11.	Phosphorous as P	IS:3025 (part 31)-1988, RA-2021 Stannous chloride method	mg/L	0.284	-	-
12.	Sodium as Na	IS:3025 (part 45)-1993, RA-2019 Flame Emissionphotometric method	mg/L	114.20	-	-
13.	Potassium as K	IS:3025 (part 17)-1984,, RA-2019 Flame Emissionphotometric method	mg/L	0.90	-	-
14.	Calcium as Ca	IS:3025 (part 40)-1991, RA-2019 EDTA Titrimetric method	mg/L	173.88	75	200

Cont'd...



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Recognized by MoEF & CC, Accredited by NABL (ISO/IEC: 17025:2017)
vide certificate No : TC-14892 and Certified by ISO (45001:2018)



Certificate No:TC14892

Sl. No.	Parameters	Protocol	Unit of Measurement	Results	Drinking water specification Std. as per IS:10500:2012	
				Dec.'24	Desirable Limits	Permissible Limits
15.	Magnesium as Mg	APHA 24th Edition 350-B-Mg By calculation	mg/L	68.32	30	100
16.	Total Hardness as CaCO ₃	IS:3025 (part 21)-1983, RA-2019 EDTA Titrimetric method	mg/L	588	300	600
17.	Chloride as Cl	IS:3025 (part 32)-1988, RA-2019 Argentometric Method	mg/L	635.30	250	1000
18.	Sulphate as SO ₄	APHA 24th Edition 4500-SO ₄ ²⁻ -E Turbidimetric method	mg/L	18.09	200	400
19.	Fluoride as F	APHA 24th Edition 4500-F- D. SPADNS Method	mg/L	1.01	1	1.50
20.	Nitrate Nitrogen as NO ₃	IS:3025 (part 34)-1988, RA-2019 Chromotropic acid method	mg/L	3.13	45	No relaxation
21.	Total Alkalinity as CaCO ₃	IS:3025 (part 23)-1986, RA-2023 Indicator method	mg/L	395	200	600
22.	Acidity as CaCO ₃	IS:3025 (part 22)-1986, RA-2019 Indicator method	mg/L	Nil	-	-
23.	Oil & Grease	IS:3025 (part 39)-1991, RA-2021 Partition Gravimetric method	mg/L	BDL	-	-
TRACE METALS						
24.	Total Iron as Fe	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	0.158	0.30	No relaxation
25.	Nickel as Ni	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.02	No relaxation
26.	Manganese as	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.10	0.30
27.	Copper as Cu	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.05	1.50
28.	Zinc as Zn	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	5	15
29.	Lead as Pb	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.01	No relaxation
30.	Silver as Ag	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.10	No relaxation
31.	Chromium as Cr	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.05	No relaxation

END OF REPORT

Note: 1. BDL: Below detectable limit. (Oil & Grease <4, for trace metals <0.1)

RA: Reaffirmed.

2. The above results are related only to the samples collected & tested on the particular Date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P. Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Recognized by MoEF & CC, Accredited by NABL (ISO/IEC: 17025:2017)
vide certificate No : TC-14892 and Certified by ISO (45001:2018)

WATER QUALITY MONITORING DATA (GROUND WATER)

1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
3. Sample collected by : Dist.Bagalkot (Karnataka) India
4. Name of the Location : Cosmo Conscious Research Laboratory
5. Particulars of sample collected : Muddapur Mines Office
6. Field Sample code : Bore well
7. Lab Sample Code : JKGW9
8. Date of sample collection : CCRL W 9894
9. Date of sample Received : 17.12.2024
10. Date of sample Analyzed : 17.12.2024 to 26.12.2024
11. Report Issue Date : 30.12.2024
12. Method of Sampling : IS:17614 (Part-I) 2021

Sl. No.	Parameters	Protocol	Unit of Measure ment	Results	Drinking water specification Std. as per IS:10500:2012	
				Dec.'24	Desirable Limits	Permissible Limits
TRACE METALS						
1.	Mercury as Hg	APHA 24 th Edition 3112 B. Direct Air Acetylene e Flame Method	mg/L	BDL	0.001	No relaxation
MICROBIOLOGICAL						
2.	Total Coliform count	APHA 24 th Edition 9222-B Membrane filter technique	CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-
3.	E.Coli count	APHA 24 th Edition 9222-B Membrane filter technique	CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-

END OF REPORT

Note: 1. BDL: Below detectable limit. (Mercury <0.001) RA: Reaffirmed.

2. The above results are related only to the samples collected & tested on the particular Date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P. Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



COSMO CONSCIOUS RESEARCH LABORATORY

Environmental laboratory, Recognized by MoEF & CC, Accredited by NABL (ISO/IEC: 17025:2017)
vide certificate No : TC-14892 and Certified by ISO (45001:2018)



Certificate No:TC14892

WATER QUALITY MONITORING DATA (GROUND WATER)

1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
3. Sample collected by : Dist.Bagalkot (Karnataka) India
4. Name of the Location : Cosmo Conscious Research Laboratory
5. Particulars of sample collected : Muddapur Mines Observatory well
6. Field Sample code : Bore well
7. Lab Sample Code : JKGW14
8. Date of sample collection : CCRL W 9895
9. Date of sample Received : 17.12.2024
10. Date of sample Analyzed : 17.12.2024 to 26.12.2024
11. Report Issue Date : 30.12.2024
12. Method of Sampling : IS:17614 (Part-I) 2021
13. Environmental condition at the time of sampling : 29.2°C
14. Unique Lab Report Number : TC148922400000000258F

Sl. No.	Parameters	Protocol	Unit of Measure ment	Results	Drinking water specification Std. as per IS:10500:2012	
				Dec.'24	Desirable Limits	Permissible Limits
PHYSICAL						
1.	Colour	IS: 3025 (PART 4)- 1984, RA-2021, Platinum cobalt Method	Hazen units	<1	5	15
2.	Temperature	IS:3025 (PART 9)-1984, RA-2023, Thermometer	°C	25.50	-	-
3.	Conductivity	IS:3025 (PART 14)-1984, RA-2019, Electrometric method	µs/cms	3310	-	-
4.	Total Dissolved Solids	IS:3025 (part 16)-1984, RA-2023, Gravimetric method	mg/L	1965	500	2000
5.	pH	IS:3025 (part 11)-1983, RA-2012, Electrometric method	-	6.86	6.5 to 8.5	No relaxation
6.	Turbidity (NTU)	IS:3025 (part 10)-1984, RA-2023, Nephelometric method	NTU	0.60	1	5
7.	Total Suspended Solids	IS:3025 (part 17)-1984, RA-2022, Gravimetric Method	mg/L	5	-	-
CHEMICAL						
8.	Dissolved Oxygen	IS:3025 (part 38)-1989, RA-2019, Winkler titrimetric azide modification	mg/L	7.30	-	-
9.	Biochemical Oxygen Demand for 3 days at 27°C	IS:3025 (part 44)-1993, , RA-2023 Three days BOD at 27°C	mg/L	<1	-	-
10.	Chemical Oxygen Demand	APHA 24 th Edition 5220-B Open reflux method	mg/L	<1	-	-
11.	Phosphorous as P	IS:3025 (part 31)-1988, RA-2021 Stannous chloride method	mg/L	0.288	-	-
12.	Sodium as Na	IS:3025 (part 45)-1993, RA-2019 Flame Emissionphotometric method	mg/L	198.40	-	-
13.	Potassium as K	IS:3025 (part 17)-1984, , RA-2019 Flame Emissionphotometric method	mg/L	0.90	-	-
14.	Calcium as Ca	IS:3025 (part 40)-1991, RA-2019 EDTA Titrimetric method	mg/L	177.15	75	200

Cont'd...



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Certificate No:TC14892

Sl. No.	Parameters	Protocol	Unit of Measurement	Results	Drinking water specification Std. as per IS:10500:2012	
				Dec.'24	Desirable Limits	Permissible Limits
15.	Magnesium as Mg	APHA 24th Edition 350-B-Mg By calculation	mg/L	80.05	30	100
16.	Total Hardness as CaCO ₃	IS:3025 (part 21)-1983, RA-2019 EDTA Titrimetric method	mg/L	572	300	600
17.	Chloride as Cl	IS:3025 (part 32)-1988, RA-2019 Argentometric Method	mg/L	599.81	250	1000
18.	Sulphate as SO ₄	APHA 24th Edition 4500-SO ₄ ²⁻ -E Turbidimetric method	mg/L	16.87	200	400
19.	Fluoride as F	APHA 24th Edition 4500-F- D. SPADNS Method	mg/L	1.16	1	1.50
20.	Nitrate Nitrogen as NO ₃	IS:3025 (part 34)-1988, RA-2019 Chromotropic acid method	mg/L	2.95	45	No relaxation
21.	Total Alkalinity as CaCO ₃	IS:3025 (part 23)-1986, RA-2023 Indicator method	mg/L	385	200	600
22.	Acidity as CaCO ₃	IS:3025 (part 22)-1986, RA-2019 Indicator method	mg/L	Nil	-	-
23.	Oil & Grease	IS:3025 (part 39)-1991, RA-2021 Partition Gravimetric method	mg/L	BDL	-	-
TRACE METALS						
24.	Total Iron as Fe	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.30	No relaxation
25.	Nickel as Ni	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.02	No relaxation
26.	Manganese as	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.10	0.30
27.	Copper as Cu	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.05	1.50
28.	Zinc as Zn	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	5	15
29.	Lead as Pb	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.01	No relaxation
30.	Silver as Ag	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.10	No relaxation
31.	Chromium as Cr	APHA 24th Edition 3111B Direct Air Acetylene Flame Method	mg/L	BDL	0.05	No relaxation

END OF REPORT

Note: 1. BDL: Below detectable limit. (Oil & Grease <4, for trace metals <0.1)

RA: Reaffirmed.

2. The above results are related only to the samples collected & tested on the particular Date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P. Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



WATER QUALITY MONITORING DATA (GROUND WATER)

1. Name of the Project : M/s. JK Cement Works, Muddapur,
2. Name of the Client : (Unit: J.K.Cement Ltd), P.O. Muddapur-587122,
3. Sample collected by : Dist. Bagalkot (Karnataka) India
4. Name of the Location : Cosmo Conscious Research Laboratory
5. Particulars of sample collected : Muddapur Mines Observatory well
6. Field Sample code : Bore well
7. Lab Sample Code : JKGW14
8. Date of sample collection : CCRL W 9895
9. Date of sample Received : 17.12.2024
10. Date of sample Analyzed : 17.12.2024 to 26.12.2024
11. Report Issue Date : 30.12.2024
12. Method of Sampling : IS:17614 (Part-I) 2021

Sl. No.	Parameters	Protocol	Unit of Measure ment	Results	Drinking water specification Std. as per IS:10500:2012	
				Dec.'24	Desirable Limits	Permissible Limits
TRACE METALS						
1.	Mercury as Hg	APHA 24 th Edition 3112 B. Direct Air Acetylene e Flame Method	mg/L	BDL	0.001	No relaxation
MICROBIOLOGICAL						
2.	Total Coliform count	APHA 24 th Edition 9222-B Membrane filter technique	CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-
3.	E.Coli count	APHA 24 th Edition 9222-B Membrane filter technique	CFU/ 100 ml	Absent	Shall not be detectable in any 100 ml sample	-

END OF REPORT


Note: 1. BDL: Below detectable limit. . (Mercury <0.001) RA: Reaffirmed.

2. The above results are related only to the samples collected & tested on the particular Date and time.


ANALYZED BY:


(G. Dhavaleshwar)
Analyst

VERIFIED BY:


(P. Harika)
Technical Manager

AUTHORISED SIGNATORY:


(M. Shashikala)
Head of the Laboratory



Analysis Report of Mines Pit Water

1. Name of the Industry	: M/s. JK Cement Works, Muddapur,
2. Address	: (Unit: J.K.Cement Ltd),P.O.Muddapur-587122,
	: Dist.Bagalkot (Karnataka) India
3. Sample collected by	: Cosmo Conscious Research Laboratory
4. Name of the Location	: Muddapur Mines
5. Particulars of sample collected	: Mines Pit Water-2
6. Field Sample code	: JKSW5
7. Lab Sample Code	: CCRL W 9899
8. Date of sample collection	: 17.12.2024
9. Date of sample Received	: 17.12.2024
10. Date of sample Analyzed	: 17.12.2024 to 26.12.2024
11. Report Issue Date	: 30.12.2024
12. Method of Sampling	: IS:17614 (Part-I) 2021
13. Environmental condition at the time of sampling	: 29.2°C
14. Unique Lab Report Number	: TC148922400000000263F

Sl. No	Parameters	Protocol	Unit of Measure ment	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Dec.'-24	Limits
PHYSICAL					
1.	Colour	IS: 3025 (PART 4)- 1984, RA-2021, Platinum cobalt Method	Hazen units	4	-
2.	Conductivity	IS:3025 (PART 14)-1984, RA-2019, Electrometric method	µs/cms	685	-
3.	Total Dissolved Solids	IS:3025 (part 16)-1984, RA-2017, Gravimetric method	mg/L	482	-
4.	pH	IS:3025 (part 11)-1983, RA-2022, Electrometric method	-	7.74	5.50 to 9.0
5.	Turbidity	IS:3025 (part 10)-1984, RA-2017, Nephelometric method	NTU	3.40	-
CHEMICAL					
6.	Dissolved Phosphate as PO ₄	IS:3025 (part 31)-1988, RA-2021 Stannous chloride method	mg/L	0.204	5
7.	Sodium as Na	IS:3025 (part 45)-1993, RA-2019 Flame Emissionphotometric method	mg/L	121.4	-
8.	Potassium as K	IS:3025 (part 17)-1984,, RA-2019 Flame Emissionphotometric method	mg/L	1.10	-
9.	Calcium as Ca	IS:3025 (part 40)-1991, RA-2019 EDTA Titrimetric method	mg/L	54.50	-
10.	Magnesium as Mg	APHA 23 rd Edition 3500-B-Mg By calculation	mg/L	27.66	-
11.	Total Hardness as CaCO ₃	IS:3025 (part 21)-1983, RA-2019 EDTA Titrimetric method	mg/L	250	-
12.	Chloride as Cl	IS:3025 (part 32)-1988, RA-2019 Argentometric Method	mg/L	96.96	-
13.	Sulphate as SO ₄	APHA 23 rd Edition 4500-SO ₄ ²⁻ -E (P.NO.4-190-191) Turbidimetric method	mg/L	14.05	-

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Certificate No:TC14892

Sl. No	Parameters	Protocol	Unit of Measure ment	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Dec.'-24	Limits
14.	Fluoride as F	APHA 23 rd Edition 4500-F- D. (P.NO. 4-87 – 88)SPADNS Method	mg/L	0.66	2
15.	Nitrate Nitrogen as NO ₃	IS:3025 (part 34)-1988, RA-2019 Chromotropic acid method	mg/L	0.738	10
16.	Total Alkalinity as CaCO ₃	IS:3025 (part 23)-1986, RA-2019 Indicator method	mg/L	165	-
TRACE METALS					
17.	Total Iron as Fe	APHA 23 rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
18.	Nickel as Ni	APHA 23 rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
19.	Manganese as Mn	APHA 23 rd Edition 3111B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	2
20.	Copper as Cu	APHA 23 rd Edition 3111B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
21.	Zinc as Zn	APHA 23 rd Edition 3111 B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
22.	Lead as Pb	APHA 23 rd Edition 3111 B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	0.10
23.	Chromium as Cr	APHA 23 rd Edition 3111 B. (p.no.3-18) Direct Air Acetylene Flame Method	mg/L	BDL	2

End of Report


Note: 1. RA: Reaffirmed BDL- Below detectable limit, (For trace metals <0.1, Oil & grease <4.0).

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:


(G.Dhavaleshwar)
Analyst

VERIFIED BY:


(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:


(M. Shashikala)
Head of the Laboratory



Analysis Report of Mines Pit Water

1. Name of the Industry : M/s. JK Cement Works, Muddapur,
(Unit: J.K.Cement Ltd),P.O.Muddapur-
2. Address : 587122,
Dist.Bagalkot (Karnataka) India
3. Sample collected by : Cosmo Conscious Research Laboratory
4. Name of the Location : Muddapur Mines
5. Particulars of sample collected : Mines Pit Water-2
6. Field Sample code : JKSW5
7. Lab Sample Code : CCRL W 9899
8. Date of sample collection : 17.12.2024
9. Date of sample Received : 17.12.2024
10. Date of sample Analyzed : 17.12.2024 to 26.12.2024
11. Report Issue Date : 30.12.2024
12. Method of Sampling : IS:17614 (Part-I) 2021

Sl. No	Parameters	Protocol	Unit of Measurement	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Dec.'-24	Limits
TRACE METALS					
1.	Mercury as Hg	APHA 23 rd Edition 3112 B. (p.no.3-23) Direct Air Acetylene e Flame Method	mg/L	BDL	0.01

End of Report

Note: 1. BDL- Below detectable limit. (Mercury <0.001).

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY: (M. Shashikala)

Head of the Laboratory

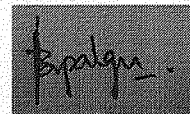
Annexure - 6

M/s. J K Cement Works Muddapur

Environmental Expenditure for Muddapur Limestone Mine-2343(A)

Oct 2024 to Mar 2025

Sl. No.	Particulars	Cost (In Rs.)	Remarks
1	Pollution Control	29,50,000/-	Water tankers for haul road dust suppression etc.,
2	Pollution Monitoring	2,00,000/-	
3	Occupational Health & Safety	0	
4	Green belt	70,000/-	Maintenance/ upkeep of Plantation, Gardener Salary etc.,
5	Reclamation	0	
6	Others	1,40,000/-	JCB expenses
	Total	33,60,000/-	Rupees Thirty three lakhs sixty thousand only



Mines Manager

Muddapur Limestone Mine

Annexure-7

Details of CSR Expenditure for 2024-25			
Sr.No	Focus area	Particulars	Amount (Rs)
1	Health	Support for Health care, Training and Medical Aid	1,96,500.00
2	Education	Education aid and Support for Schools	49,57,563.00
3	Rural Transformation	Rural Development & Other Welfare Activities	31,15,969.20
4	Other	Miscellaneous Activities	6,71,100.00
Grand Total			89,41,132.20