

No. JK-MIU/ENV/2026-27/93/220

Date - 23.05.2026

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 - 2025 to March-2026 (2<sup>nd</sup> 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 - 2025 to March-2026 (2<sup>nd</sup> 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

a.p.s. (Unit Head)

Enclosures: As above

## Corporate Office

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**JK SUPER**  
**CEMENT**  
**BUILD SAFE**

Manufacturing Units at :

Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)  
Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)

**JK CEMENT**  
**WallMaxX**  
White Cement Wall Putty



**CC:**

- The Addl. Principal Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (South Zone), Koramangala, Bangalore.
- Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi
- Scientist 'D' & Incharge, Central Pollution Control Board, 1<sup>st</sup> & 2<sup>nd</sup> Floors, Nisarga Bhavan, A-Block, Thimmaiah, Main Road, 7<sup>th</sup>D Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru
- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore
- 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. 21<sup>st</sup> 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- 2025 to March- 2026**

**Specific Condition:**

| S.N.      | CONDITION                                                                                                                                                                                                                                                                                                                                                                                               | COMPLIANCE STATUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A.</b> | <b>Specific Conditions</b>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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 <b>Annexure-6</b> .                                                                                                                                                                                                                          |
| 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. A copy of CSR expenditures enclosed as <b>Annexure-7</b> .                                                                          |
| 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 |



|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                        |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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 <b>Annexure-5.</b>                                                                                                                                             |
| 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.                                                                                                                                                                                                                |



**Muddapur Limestone Mines, Village- Muddapur, Taluk- Mudhol, Dist.- Bagalkot, Karnataka**  
**Ref: MoEF Letter No. J-11015/383/2006-IA. II (M)/dated. 21<sup>st</sup> January-2008**

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>xi)</b>   | 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.                                                                                                                                                                       |
| <b>xii)</b>  | 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.<br>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. |
| <b>xiii)</b> | 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.                                                                                                                          |



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|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                  |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>xiv)</b>   | 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.                                                                                                                    |
| <b>xv)</b>    | 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.                                                                                                        |
| <b>xvi)</b>   | 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.                                                                                                                      |
| <b>xvii)</b>  | 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.                                                                                                                                           |
| <b>xviii)</b> | 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. |
| <b>xix)</b>   | Drilling and blasting (if any) shall be conducted by using dust extractors/ wet drilling.                                                                                                                                                                                                                                                                                                                                                                                                         | Complying. Wet drilling operation is being practiced.                                                                                                                                                                                            |



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

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|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>xx)</b>  | 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.                                                           |
| <b>xxi)</b> | 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>B</b>    | <b>General Condition:</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                 |
| <b>i)</b>   | No change in mining technology and scope of working shall be made without prior approval of Ministry of Environment & Forests.                                                                                                                                                                                                                                                                                                                   | Noted.                                                                                                                                                                                                          |
| <b>ii)</b>  | No change in calendar plan including excavation, quantum of mineral, limestone and waste shall be made.                                                                                                                                                                                                                                                                                                                                          | Noted.                                                                                                                                                                                                          |
| <b>iii)</b> | Four Ambient Air Quality – monitoring station shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> 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. | Compiled. Four Ambient Air Quality monitoring stations have been established in the core and buffer zone. A copy of the environment monitoring report by NABL accredited lab is enclosed as <b>Annexure-1</b> . |
| <b>iv)</b>  | Data on Ambient Air Quality (RSPM, SPM, SO <sub>2</sub> , and NO <sub>x</sub> ) 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 <b>Annexure-2</b> .                                                      |
| <b>v)</b>   | 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 <b>Annexure-3</b> .                                                         |
| <b>vi)</b>  | 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 <b>Annexure-4.</b>                                                                                                                        |
| <b>Vii)</b>  | 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.                                                                                     |
| <b>viii)</b> | 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. |
| <b>ix)</b>   | 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.                |
| <b>X)</b>    | 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.                                                                                                                                                                       |
| <b>xi)</b>   | 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.                                                                                                                                                                       |
| <b>xii)</b>  | 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.                                                                                                                                                                       |
| <b>xiii)</b> | 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.                                                                                                                                                                         |



**Muddapur Limestone Mines, Village- Muddapur, Taluk- Mudhol, Dist.- Bagalkot, Karnataka**  
**Ref: MoEF Letter No. J-11015/383/2006-IA. II (M)/dated. 21<sup>st</sup> January-2008**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>xiv)</b> | 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. |
| <b>xv)</b>  | 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.    |
| <b>xvi)</b> | 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 <a href="http://www.envfor.nic.in">http: www.envfor.nic.in</a> and a copy of the same shall be forwarded to the Regional Office of the Ministry located at Bangalore. | Complied. |





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**BELGAUM TEST HOUSE LLP**  
(Recognized under section 12 of the Environment (Protection) Act, 1986) New Delhi.

ಬೆಲಗಾಂವ್ ಟೆಸ್ಟ್ ಹೌಸ್ ಲೈಮಿಟೆಡ್  
(ಪರಿಶೀಲನೆ ಮಾಡಲ್ಪಟ್ಟಿದೆ) ಕಾಯ್ದೆ, 1986 ರ ಸೆಕ್ಷನ್ 12 ರ ಅಡಿಯಲ್ಲಿ ಗುರುತಿಸಲ್ಪಟ್ಟಿದೆ.

**ಬೆಲಗಾಂವ್ ಟೆಸ್ಟ್ ಹೌಸ್ ಲೈಮಿಟೆಡ್**

(ಪರಿಶೀಲನೆ ಮಾಡಲ್ಪಟ್ಟಿದೆ) ಅಧಿನಿಯಮ, 1986 ಅನುಸಾರ 12 ನೇ ಭಾಗದ ಮಾನ್ಯತೆ ಪಡೆದ ಪ್ರಯೋಗಾಲಯವು ನ್ಯು ದೆಹಲಿ.

Office Address : Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum - 590 015.  
ಕಛೇರಿ ವಿಳಾಸ : ಪ್ಲಾಟ್ ನಂ. 457/458, ಕಾನ್ಬರ್ಗಿ ಇಂಡಸ್ಟ್ರಿಯಲ್ ಏರಿಯಾ, ಆಟೊನಗರ್, ಬೆಲಗಾಂವ್ - 590 015



TC-14735

ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018 Accredited Testing Laboratory by NABL

## TEST REPORT

BTHLLP/GEN/F/25/02/00

### AMBIENT AIR QUALITY MONITORING RESULT TABLE

|                                                   |                                                                                                                                             |                                                                       |                                     |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Test report Number                                | BTHLLP2025005717-1                                                                                                                          | Test report issue date                                                | 03.01.2026                          |
| Sample code Number                                | BTHLLP/JKCW/A/25/12/5717                                                                                                                    | ULR Number                                                            | TC1473525000005717F                 |
| Name and address of customer with contact details | M/s. J K Cement Works(Unit JK Cement LTD) Muddapur Village Mudhol Taluk, Bagalkot District Karnataka - 587122                               | Reference to Work order/ Client request letter/ Purpose of the report | JKCEM/PUR/AJ-03<br>Dated:23.08.2025 |
| Name of the sample                                | Ambient Air                                                                                                                                 | Monitoring location                                                   | D Quarters                          |
| Particulars of sample collected                   | Monitored through Respirable Dust Sampler APM 460NL, Gaseous Sampler APM 411TE and Fine Particulate Sampler APM 550 and Ozone BTH/Ins/CO/01 | Date of receipt of sample                                             | 29.12.2025                          |
|                                                   |                                                                                                                                             | Date of start of analysis                                             | 29.12.2025                          |
|                                                   |                                                                                                                                             | Date of completion of analysis                                        | 03.01.2026                          |
| Sample collected by                               | M/s. Belgaum Test House LLP, Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum 590015                                          | Reference to sampling procedure                                       | BTHLLP/QSP/19                       |
| Date of Monitoring                                | 27.12.2025 to 28.12.2025                                                                                                                    | Time/ duration of sampling                                            | 08:50 am - 08:50am                  |
| Discipline                                        | Chemical                                                                                                                                    |                                                                       |                                     |
| Group                                             | Atmospheric Pollution                                                                                                                       |                                                                       |                                     |
| Page No                                           | 1 of 1                                                                                                                                      |                                                                       |                                     |
| Amendment No & date                               | --                                                                                                                                          |                                                                       |                                     |

### RESULT TABLE

| Sl.No | Parameters                               | Unit               | RESULT | NAAQ Standards (2009) | Methods                    |
|-------|------------------------------------------|--------------------|--------|-----------------------|----------------------------|
| 1.    | Particulate Matter (PM <sub>10</sub> )   | µg/ m <sup>3</sup> | 65     | 100                   | IS: 5182 (Part 23)         |
| 2.    | Particulate Matter (PM <sub>2.5</sub> )  | µg/ m <sup>3</sup> | 23     | 60                    | IS: 5182 (Part 24)         |
| 3.    | Sulphur dioxide (SO <sub>2</sub> )       | µg/ m <sup>3</sup> | 11.63  | 80                    | IS: 5182 (Part 2)          |
| 4.    | Nitrogen dioxide (NO <sub>2</sub> )      | µg/ m <sup>3</sup> | 22.12  | 80                    | IS: 5182 (Part 6)- 1st rev |
| 5.    | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup>  | 10.10  | 400.0 (24 hr Average) | IS: 5182 (Part 25)         |
| 6.    | Carbon Monoxide (CO)                     | mg/m <sup>3</sup>  | 0.91   | 4.0 (1 hr Average)    | IS: 5182 (P 10)            |
| 7.    | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup>  | 31.42  | 180 (1 hr Average)    | IS: 5182 (Part 24)         |
| 8.    | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup>  | BDL    | 5.0 (Annual Average)  | IS: 5182 (Part 11)         |
| 9.    | Benzo (a) pyrene (BaP)                   | ng/m <sup>3</sup>  | BDL    | 1.0 (Annual Average)  | IS: 5182 (Part 12)         |
| 10.   | Nickel (Ni)                              | ng/m <sup>3</sup>  | 10.29  | 20.0 (Annual Average) | BTHLLP/SOP/ICPOES/001      |
| 11.   | Lead (Pb)                                | µg/m <sup>3</sup>  | 0.01   | 1.0 (24 hr Average)   | BTHLLP/SOP/ICPOES/001      |
| 12.   | Arsenic (As)                             | ng/m <sup>3</sup>  | BDL    | 6.0 (Annual Average)  | BTHLLP/SOP/ICPOES/001      |

Note: BDL: Below Detectable Limit.

|                  |                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>INFERENCE</b> | As per NAAQ Standards,<br>Report Status: - The measured values for the above parameters are within the standards. |
|------------------|-------------------------------------------------------------------------------------------------------------------|

Reviewed by  
(Raviraj Paramshetti),  
Senior Analyst

Authorized Signatory  
(Vinayak S Naik),  
Senior Analyst

Concern towards protecting Environment

#### Note:

- The results refer only to the tested samples & applicable parameters.
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- After 15 days of report submission the samples will be discarded.
- Complaint register is available at the laboratory at the reception.





P : 0831-3569022  
M : 7899818373, 9902824295  
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## BELGAUM TEST HOUSE LLP

(Recognised under section 12 of the Environment (Protection) Act, 1986) New Delhi.

ಬೆಲಗಾಂವ್ ಟೆಸ್ಟ್ ಹೌಸ್ ಎಲ್‌ಎಲ್‌ಪಿ

(ಪರಿಚಿತರಿಸಿದ 12 ರ ವಿಭಾಗದ ಅಧೀನದಲ್ಲಿ, 1986 ರ ಪರಿಸರ ರಕ್ಷಣಾ ಕಾಯಿದೆ, 1986 ರ ಅಡಿಯಲ್ಲಿ ನೋಂದಾಯಿಸಲಾಗಿದೆ) ಹೊಸ ದೆಹಲಿ.

बेलगांव टेस्ट हाउस एलएलपी

(परीक्षण (संरक्षण) अधिनियम, 1986 अनुभाग 12 की धारा 12 के तहत मान्यता प्राप्त प्रयोगशाला) न्यू दिल्ली.

Office Address : Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum - 590 015.

ಕಛೇರಿ ವಿಳಾಸ : ಪ್ಲಾಟ್ ನಂ. 457/458, ಕಾಂಬರ್ಗಿ ಇಂಡಸ್ಟ್ರಿಯಲ್ ಏರಿಯಾ, ಆಟೊನಗರ್, ಬೆಲಗಾಂವ್ - 590 015



TC-14735

ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018 Accredited Testing Laboratory by NABL

## TEST REPORT

BTHLLP / GEN / F / 25 / 02 / 00

### AMBIENT AIR QUALITY MONITORING RESULT TABLE

|                                                   |                                                                                                                                             |                                                                       |                                     |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Test report Number                                | BTHLLP2025005723-1                                                                                                                          | Test report issue date                                                | 03.01.2026                          |
| Sample code Number                                | BTHLLP/JKCW/A/25/12/5723                                                                                                                    | ULR Number                                                            | TC1473525000005723F                 |
| Name and address of customer with contact details | M/s. J K Cement Works (Unit JK Cement LTD) Muddapur Village Mudhol Taluk, Bagalkot District Karnataka, -587122                              | Reference to Work order/ Client request letter/ Purpose of the report | JKCEM/PUR/AJ-03<br>Dated:23.08.2025 |
| Name of the sample                                | Ambient Air                                                                                                                                 | Monitoring location                                                   | Muddapur mines Office               |
| Particulars of sample collected                   | Monitored through Respirable Dust Sampler APM 460NL, Gaseous Sampler APM 411TE and Fine Particulate Sampler APM 550 and Ozone BTH/Ins/CO/01 | Date of receipt of sample                                             | 29.12.2025                          |
|                                                   |                                                                                                                                             | Date of start of analysis                                             | 29.12.2025                          |
|                                                   |                                                                                                                                             | Date of completion of analysis                                        | 03.01.2026                          |
| Sample collected by                               | M/s. Belgaum Test House LLP, Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum 590015                                          | Reference to sampling procedure                                       | BTHLLP/QSP/19                       |
| Date of Monitoring                                | 27.12.2025 to 28.12.2025                                                                                                                    | Time/ duration of sampling                                            | 10:00 am - 10:00 am                 |
| Discipline                                        | Chemical                                                                                                                                    |                                                                       |                                     |
| Group                                             | Atmospheric Pollution                                                                                                                       |                                                                       |                                     |
| Page No                                           | 1 of 1                                                                                                                                      |                                                                       |                                     |
| Amendment No & date                               | --                                                                                                                                          |                                                                       |                                     |

### RESULT TABLE

| Sl.No | Parameters                               | Unit               | RESULT | NAAQ Standards (2009) | Methods                    |
|-------|------------------------------------------|--------------------|--------|-----------------------|----------------------------|
| 1.    | Particulate Matter (PM <sub>10</sub> )   | µg/ m <sup>3</sup> | 54     | 100                   | IS: 5182 (Part 23)         |
| 2.    | Particulate Matter (PM <sub>2.5</sub> )  | µg/ m <sup>3</sup> | 14     | 60                    | IS: 5182 (Part 24)         |
| 3.    | Sulphur dioxide (SO <sub>2</sub> )       | µg/ m <sup>3</sup> | 6.75   | 80                    | IS: 5182 (Part 2)          |
| 4.    | Nitrogen dioxide (NO <sub>2</sub> )      | µg/ m <sup>3</sup> | 14.63  | 80                    | IS: 5182 (Part 6)- 1st rev |
| 5.    | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup>  | 5.82   | 400.0 (24 hr Average) | IS: 5182 (Part 25)         |
| 6.    | Carbon Monoxide (CO)                     | mg/m <sup>3</sup>  | 0.68   | 4.0 (1 hr Average)    | IS: 5182 (P 10)            |
| 7.    | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup>  | 24.67  | 180 (1 hr Average)    | IS: 5182 (Part 24)         |
| 8.    | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup>  | BDL    | 5.0 (Annual Average)  | IS: 5182 (Part 11)         |
| 9.    | Benzo (a) pyrene (BaP)                   | ng/m <sup>3</sup>  | BDL    | 1.0 (Annual Average)  | IS: 5182 (Part 12)         |
| 10.   | Nickel (Ni)                              | ng/m <sup>3</sup>  | 3.22   | 20.0 (Annual Average) | BTHLLP/SOP/ICPOES/001      |
| 11.   | Lead (Pb)                                | µg/m <sup>3</sup>  | BDL    | 1.0 (24 hr Average)   | BTHLLP/SOP/ICPOES/001      |
| 12.   | Arsenic (As)                             | ng/m <sup>3</sup>  | BDL    | 6.0 (Annual Average)  | BTHLLP/SOP/ICPOES/001      |

Note: BDL: Below Detectable Limit.

#### INFERENCE

As per NAAQ Standards,

Report Status: - The measured values for the above parameters are within the standards.

Reviewed by  
(Raviraj Paramshetti),  
Senior Analyst

Authorized Signatory  
(Vinayak S Naik),  
Senior Analyst

\*\*\*End of Test Report\*\*\*

Concern towards protecting Environment

#### Note:

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- Complaint register is available at the laboratory at the reception.





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**BELGAUM TEST HOUSE LLP**  
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ಬೆಲಗಾಂವ್ ಟೆಸ್ಟ್ ಹೌಸ್ ಎಲ್‌ಎಲ್‌ಪಿ  
(ಪರಿವರದಿ (ಕಂಪೌಂಡ್) ಕಾಯ್ದೆ, 1986 ರ ಕೆಲವು 12 ರಲ್ಲಿ ಮನ್ನಾಣೆ ಪಡೆದ ಪ್ರಯೋಗಾಲಯ) ನವ ದೆಹಲಿ.

**बेलगांव टेस्ट हाउस एलएलपी**

(पर्यावरण (संरक्षण) अधिनियम, 1986 अनुभाग 12 की धारा मान्यता प्राप्त प्रयोगशाला) न्यू दिल्ली.

Office Address : Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum - 590 015.

ಕಛೇರಿ ವಿಳಾಸ : ಪ್ಲಾಟ್ ನಂ. 457/458, ಕಾಂಬರ್ಗಿ ಇಂಡಸ್ಟ್ರಿಯಲ್ ಏರಿಯಾ, ಆಟೋನಗರ, ಬೆಲಗಾವಿ - 590 015



TC-14735

ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018 Accredited Testing Laboratory by NABL

## TEST REPORT

BTHLLP / GEN / F / 25 / 02 / 00

### AMBIENT AIR QUALITY MONITORING RESULT TABLE

|                                                   |                                                                                                                                             |                                                                       |                                     |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Test report Number                                | BTHLLP2025005720-1                                                                                                                          | Test report issue date                                                | 03.01.2026                          |
| Sample code Number                                | BTHLLP/JKCW/A/25/12/5720                                                                                                                    | ULR Number                                                            | TC1473525000005720F                 |
| Name and address of customer with contact details | M/s. J K Cement Works(Unit JK Cement LTD) Muddapur Village Mudhol Taluk, Bagalkot District Karnataka .- 587122                              | Reference to Work order/ Client request letter/ Purpose of the report | JKCEM/PUR/AJ-03<br>Dated:23.08.2025 |
| Name of the sample                                | Ambient Air                                                                                                                                 | Monitoring location                                                   | Petlur Village                      |
| Particulars of sample collected                   | Monitored through Respirable Dust Sampler APM 460NL, Gaseous Sampler APM 411TE and Fine Particulate Sampler APM 550 and Ozone BTH/Ins/CO/01 | Date of receipt of sample                                             | 29.12.2025                          |
|                                                   |                                                                                                                                             | Date of start of analysis                                             | 29.12.2025                          |
|                                                   |                                                                                                                                             | Date of completion of analysis                                        | 03.01.2026                          |
| Sample collected by                               | M/s. Belgaum Test House LLP, Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum 590015                                          | Reference to sampling procedure                                       | BTHLLP/QSP/19                       |
| Date of Monitoring                                | 27.12.2025 to 28.12.2025                                                                                                                    | Time/ duration of sampling                                            | 11:20 am - 11:20 am                 |
| Discipline                                        | Chemical                                                                                                                                    |                                                                       |                                     |
| Group                                             | Atmospheric Pollution                                                                                                                       |                                                                       |                                     |
| Page No                                           | 1 of 1                                                                                                                                      |                                                                       |                                     |
| Amendment No & date                               | --                                                                                                                                          |                                                                       |                                     |

### RESULT TABLE

| Sl.No | Parameters                               | Unit               | RESULT | NAAQ Standards (2009) | Methods                    |
|-------|------------------------------------------|--------------------|--------|-----------------------|----------------------------|
| 1.    | Particulate Matter (PM <sub>10</sub> )   | µg/ m <sup>3</sup> | 56     | 100                   | IS: 5182 (Part 23)         |
| 2.    | Particulate Matter (PM <sub>2.5</sub> )  | µg/ m <sup>3</sup> | 16     | 60                    | IS: 5182 (Part 24)         |
| 3.    | Sulphur dioxide (SO <sub>2</sub> )       | µg/ m <sup>3</sup> | 7.50   | 80                    | IS: 5182 (Part 2)          |
| 4.    | Nitrogen dioxide (NO <sub>2</sub> )      | µg/ m <sup>3</sup> | 16.36  | 80                    | IS: 5182 (Part 6)- 1st rev |
| 5.    | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup>  | 6.72   | 400.0 (24 hr Average) | IS: 5182 (Part 25)         |
| 6.    | Carbon Monoxide (CO)                     | mg/m <sup>3</sup>  | 0.72   | 4.0 (1 hr Average)    | IS: 5182 (P 10)            |
| 7.    | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup>  | 26.72  | 180 (1 hr Average)    | IS: 5182 (Part 24)         |
| 8.    | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup>  | BDL    | 5.0 (Annual Average)  | IS: 5182 (Part 11)         |
| 9.    | Benzo (a) pyrene (BaP)                   | ng/m <sup>3</sup>  | BDL    | 1.0 (Annual Average)  | IS: 5182 (Part 12)         |
| 10.   | Nickel (Ni)                              | ng/m <sup>3</sup>  | 6.39   | 20.0 (Annual Average) | BTHLLP/SOP/ICPOES/001      |
| 11.   | Lead (Pb)                                | µg/m <sup>3</sup>  | BDL    | 1.0 (24 hr Average)   | BTHLLP/SOP/ICPOES/001      |
| 12.   | Arsenic (As)                             | ng/m <sup>3</sup>  | BDL    | 6.0 (Annual Average)  | BTHLLP/SOP/ICPOES/001      |

Note: BDL: Below Detectable Limit.

|                  |                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>INFERENCE</b> | As per NAAQ Standards,<br>Report Status: - The measured values for the above parameters are within the standards. |
|------------------|-------------------------------------------------------------------------------------------------------------------|

Reviewed by  
(Raviraj Paramshetti),  
Senior Analyst

Authorized Signatory  
(Vinayak S Naik),  
Senior Analyst

\*\*\*End of Test Report\*\*\*

### Concern towards protecting Environment

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(ಪರಿಶೀಲಿತ (ಸಂರಕ್ಷಣೆ) ಕಾಯ್ದೆ, 1986 ರ ಕೆಲಸ 12 ರಡಿ ಮೂಡುಕೆ ಪಡೆದ ಪ್ರಯೋಗಾಲಯ) ನವ ದೆಹಲಿ.

बेलगांव टेस्ट हाउस एलएलपी

(पर्यावरण (संरक्षण) अधिनियम, 1986 अनुभाग 12 की शर्त मान्यता प्राप्त प्रयोगशाला) न्यू दिल्ली.

Office Address : Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum - 590 015.

ಕಛೇರಿ ವಿಳಾಸ : ಪ್ಲಾಟ್ ನಂ. 457/458, ಕೆನಬರ್ಗಿ ಇಂಡಸ್ಟ್ರಿಯಲ್ ಏರಿಯಾ, ಆಟೋನಗರ, ಬೆಲಗಾವಿ - 590 015



ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018 Accredited Testing Laboratory by NABL

### TEST REPORT

BTHLLP / GEN / F / 25 / 02 / 00

#### AMBIENT AIR QUALITY MONITORING RESULT TABLE

|                                                   |                                                                                                                                             |                                                                       |                                     |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Test report Number                                | BTHLLP2025005724-1                                                                                                                          | Test report issue date                                                | 03.01.2026                          |
| Sample code Number                                | BTHLLP/JKCW/A/25/12/5724                                                                                                                    | ULR Number                                                            | TC1473525000005724F                 |
| Name and address of customer with contact details | M/s. J K Cement Works(Unit JK Cement LTD) Muddapur Village Mudhol Taluk, Bagalkot District Karnataka , - 587122                             | Reference to Work order/ Client request letter/ Purpose of the report | JKCEM/PUR/AJ-03<br>Dated:23.08.2025 |
| Name of the sample                                | Ambient Air                                                                                                                                 | Monitoring location                                                   | Timmapur Village                    |
| Particulars of sample collected                   | Monitored through Respirable Dust Sampler APM 460NL, Gaseous Sampler APM 411TE and Fine Particulate Sampler APM 550 and Ozone BTH/Ins/CO/01 | Date of receipt of sample                                             | 29.12.2025                          |
|                                                   |                                                                                                                                             | Date of start of analysis                                             | 29.12.2025                          |
|                                                   |                                                                                                                                             | Date of completion of analysis                                        | 03.01.2026                          |
| Sample collected by                               | M/s. Belgaum Test House LLP, Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum 590015                                          | Reference to sampling procedure                                       | BTHLLP/QSP/19                       |
| Date of Monitoring                                | 27.12.2025 to 28.12.2025                                                                                                                    | Time/ duration of sampling                                            | 11:00 am – 11:00 am                 |
| Discipline                                        | Chemical                                                                                                                                    |                                                                       |                                     |
| Group                                             | Atmospheric Pollution                                                                                                                       |                                                                       |                                     |
| Page No                                           | 1 of 1                                                                                                                                      |                                                                       |                                     |
| Amendment No & date                               | --                                                                                                                                          |                                                                       |                                     |

#### RESULT TABLE

| Sl.No | Parameters                               | Unit               | RESULT | NAAQ Standards (2009) | Methods                    |
|-------|------------------------------------------|--------------------|--------|-----------------------|----------------------------|
| 13.   | Particulate Matter (PM <sub>10</sub> )   | µg/ m <sup>3</sup> | 51     | 100                   | IS: 5182 (Part 23)         |
| 14.   | Particulate Matter (PM <sub>2.5</sub> )  | µg/ m <sup>3</sup> | 11     | 60                    | IS: 5182 (Part 24)         |
| 15.   | Sulphur dioxide (SO <sub>2</sub> )       | µg/ m <sup>3</sup> | 5.84   | 80                    | IS: 5182 (Part 2)          |
| 16.   | Nitrogen dioxide (NO <sub>2</sub> )      | µg/ m <sup>3</sup> | 12.67  | 80                    | IS: 5182 (Part 6)- 1st rev |
| 17.   | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup>  | 5.34   | 400.0 (24 hr Average) | IS: 5182 (Part 25)         |
| 18.   | Carbon Monoxide (CO)                     | mg/m <sup>3</sup>  | 0.64   | 4.0 (1 hr Average)    | IS: 5182 (P 10)            |
| 19.   | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup>  | 22.02  | 180 (1 hr Average)    | IS: 5182 (Part 24)         |
| 20.   | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup>  | BDL    | 5.0 (Annual Average)  | IS: 5182 (Part 11)         |
| 21.   | Benzo (a) pyrene (BaP)                   | ng/m <sup>3</sup>  | BDL    | 1.0 (Annual Average)  | IS: 5182 (Part 12)         |
| 22.   | Nickel (Ni)                              | ng/m <sup>3</sup>  | 2.98   | 20.0 (Annual Average) | BTHLLP/SOP/ICPOES/001      |
| 23.   | Lead (Pb)                                | µg/m <sup>3</sup>  | BDL    | 1.0 (24 hr Average)   | BTHLLP/SOP/ICPOES/001      |
| 24.   | Arsenic (As)                             | ng/m <sup>3</sup>  | BDL    | 6.0 (Annual Average)  | BTHLLP/SOP/ICPOES/001      |

Note: BDL: Below Detectable Limit.

**INFERENCE** As per NAAQ Standards,  
Report Status: - The measured values for the above parameters are within the standards.

Reviewed by  
(Raviraj Paramshetti),  
Senior Analyst

Authorized Signatory  
(Vinayak S Naik),  
Senior Analyst

\*\*\*End of Test Report\*\*\*

#### Concern towards protecting Environment

##### Note:

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ಬೆಳಗಾಂ ಟೆಸ್ಟ್ ಹೌಸ್ ಎಲ್‌ಎಲ್‌ಪಿ

(ಪರಿಸರ (ಸಂರಕ್ಷಣಾ) ಕಾಯ್ದೆ, 1986 ರ ಕಲಂ 12 ರಲ್ಲಿ ಮಾನ್ಯತೆ ಪಡೆದ ಪ್ರಯೋಗಾಲಯ) ನವ ದೆಹಲಿ.

**ಬೆಲಗಾಂವ್ ಟೆಸ್ಟ್ ಹೌಸ್ ಎಲ್‌ಎಲ್‌ಪಿ**

(पर्यावरण (संरक्षण) अधिनियम, 1986 अनुभाग 12 की धारा मान्यता प्राप्त प्रयोगशाला) न्यू दिल्ली.

Office Address : Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum - 590 015.  
ಕಛೇರಿ ವಿಳಾಸ : ಪ್ಲಾಟ್ ನಂ. 457/458, ಕಾಂಬರ್ಗಿ ಇಂಡಸ್ಟ್ರಿಯಲ್ ಏರಿಯಾ, ಆಟೋನಗರ, ಬೆಳಗಾವಿ - 590 015

ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018

**TEST REPORT**

BTHLLP / GEN / F / 26 / 02 / 00

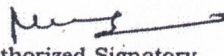
**ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING**

|                                                   |                                                                                                                |                                                                       |                                     |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Test report Number                                | BTHLLP2025005774-1                                                                                             | Test report issue date                                                | 02.01.2026                          |
| Sample code Number                                | BTHLLP/JKCW/A/25/12/5774                                                                                       | ULR Number                                                            | Not applicable                      |
| Name and address of customer with contact details | M/s. J K Cement Works(Unit JK Cement LTD) Muddapur Village Mudhol Taluk, Bagalkot District Karnataka , -587122 | Reference to Work order/ Client request letter/ Purpose of the report | JKCEM/PUR/AJ-03<br>Dated:23.08.2025 |
| Name of the sample                                | Fugitive emission                                                                                              | Monitoring location                                                   | Muddapur Mines - Drilling Area      |
| Particulars of sample collected                   | Monitored through Respirable Dust Sampler 460NL                                                                | Date of receipt of sample                                             | 29.12.2025                          |
|                                                   |                                                                                                                | Date of start of analysis                                             | 29.12.2025                          |
|                                                   |                                                                                                                | Date of completion of analysis                                        | 02.01.2026                          |
| Sample collected by                               | M/s. Belgaum Test House LLP, Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum 590015             | Reference to sampling procedure                                       | BTHLLP/QSP/19                       |
| Date of Monitoring                                | 27.12.2025 to 28.12.2025                                                                                       | Time/ duration of sampling                                            | 09:20 am to 05:20 pm                |
| Discipline                                        | Chemical                                                                                                       |                                                                       |                                     |
| Product Group                                     | Atmospheric Pollution                                                                                          |                                                                       |                                     |
| Page No                                           | 1 of 1                                                                                                         |                                                                       |                                     |
| Amendment No & date                               | --                                                                                                             |                                                                       |                                     |

**RESULT TABLE**

| SI. No | Parameters                                         | Unit  | Results | Method       |
|--------|----------------------------------------------------|-------|---------|--------------|
| 1.     | Dust Concentration (Suspended Particulate Matter). | mg/m3 | 0.357   | IS 5182 (P4) |

  
Reviewed by  
(Vinayak S Naik),  
Senior Analyst

  
Authorized Signatory  
(Murgesh Bukitgar),  
Technical Manager

\*\*\*End of Test Report\*\*\*

**Concern towards protecting Environment**

- Note:**
1. The results refer only to the tested samples & applicable parameters.
  2. Sample(S) not drawn by us unless stated.
  3. Total liability of our laboratory is to Invoiced amount. Any dispute arising out of this report is subjected to Belgaum jurisdiction only.
  4. The Report Shall not be reproduced partially without the consent of the laboratory.
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  6. Complaint register is available at the laboratory at the reception.





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**BELGAUM TEST HOUSE LLP**  
(Recognised under section 12 of the Environment (Protection) Act, 1986) New Delhi.

ಬೆಳಗಾಂ ಟೆಸ್ಟ್ ಹೌಸ್ ಎಲ್‌ಎಲ್‌ಪಿ  
(ಪರಿಸರ (ಸಂರಕ್ಷಣಾ) ಕಾಯ್ದೆ, 1986 ರ ಕಲಂ 12 ರಲ್ಲಿ ಮಾನ್ಯತೆ ಪಡೆದ ಪ್ರಯೋಗಾಲಯ) ನವ ದೆಹಲಿ.

**बेलगांव टेस्ट हाउस एलएलपी**

(पर्यावरण (संरक्षण) अधिनियम, 1986 अनुभाग 12 की धारा मान्यता प्राप्त प्रयोगशाला) न्यु दिल्ली.  
Office Address : Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum - 590 015.  
ಕಛೇರಿ ವಿಳಾಸ : ಪ್ಲಾಟ್ ನಂ. 457/458, ಕಾಂಬರ್ಗಿ ಇಂಡಸ್ಟ್ರಿಯಲ್ ಎರಿಯಾ, ಆಟೋನಗರ, ಬೆಳಗಾವಿ - 590 015

ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018

BTHLLP / GEN / F / 26 / 02 / 00

## TEST REPORT

### ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING

|                                                   |                                                                                                               |                                                                       |                                  |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| Test report Number                                | BTHLLP2025005775-1                                                                                            | Test report issue date                                                | 02.01.2026                       |
| Sample code Number                                | BTHLLP/JKCW/A/25/12/5775                                                                                      | ULR Number                                                            | Not applicable                   |
| Name and address of customer with contact details | M/s. J K Cement Works(Unit JK Cement LTD) Muddapur Village Mudhol Taluk, Bagalkot District Karnataka, -587122 | Reference to Work order/ Client request letter/ Purpose of the report | JKCEM/PUR/AJ-03 Dated:23.08.2025 |
| Name of the sample                                | Fugitive emission                                                                                             | Monitoring location                                                   | Muddapur Mines - Loading Area    |
| Particulars of sample collected                   | Monitored through Respirable Dust Sampler 460NL                                                               | Date of receipt of sample                                             | 29.12.2025                       |
|                                                   |                                                                                                               | Date of start of analysis                                             | 29.12.2025                       |
|                                                   |                                                                                                               | Date of completion of analysis                                        | 02.01.2026                       |
| Sample collected by                               | M/s. Belgaum Test House LLP, Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum 590015            | Reference to sampling procedure                                       | BTHLLP/QSP/19                    |
| Date of Monitoring                                | 27.12.2025 to 28.12.2025                                                                                      | Time/ duration of sampling                                            | 09:25 am to 05:25 pm             |
| Discipline                                        | Chemical                                                                                                      |                                                                       |                                  |
| Product Group                                     | Atmospheric Pollution                                                                                         |                                                                       |                                  |
| Page No                                           | 1 of 1                                                                                                        |                                                                       |                                  |
| Amendment No & date                               | --                                                                                                            |                                                                       |                                  |

### RESULT TABLE

| SI. No | Parameters                                         | Unit  | Results | Method       |
|--------|----------------------------------------------------|-------|---------|--------------|
| 1.     | Dust Concentration (Suspended Particulate Matter). | mg/m3 | 0.144   | IS 5182 (P4) |

Reviewed by  
(Vinayak S Naik),  
Senior Analyst

Authorized Signatory  
(Murgesh Bukitgar),  
Technical Manager

\*\*\*End of Test Report\*\*\*

Concern towards protecting Environment

#### Note:

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- Sample(S) not drawn by us unless stated.
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(ಪರಿಸರ (ಸಂರಕ್ಷಣಾ) ಕಾಯ್ದೆ 1986 ರ ಕಲಂ 12 ರಲ್ಲಿ ಮಾನ್ಯತೆ ಪಡೆದ ಪ್ರಯೋಗಾಲಯ) ನವ ದೆಹಲಿ.

### ಬೆಲಗಾಂವ್ ಟೆಸ್ಟ್ ಹೌಸ್ ಎಲ್‌ಎಲ್‌ಪಿ

(पर्यावरण (संरक्षण) अधिनियम, 1986 अनुभाग 12 की धारा मान्यता प्राप्त प्रयोगशाला) न्यु दिल्ली.

Office Address : Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum - 590 015.  
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ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018

## TEST REPORT

BTHLLP / GEN / F / 26 / 02 / 00

### ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING

|                                                   |                                                                                                                |                                                                       |                                     |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Test report Number                                | BTHLLP2025005776-1                                                                                             | Test report issue date                                                | 02.01.2026                          |
| Sample code Number                                | BTHLLP/JKCW/A/25/12/5776                                                                                       | ULR Number                                                            | Not applicable                      |
| Name and address of customer with contact details | M/s. J K Cement Works(Unit JK Cement LTD) Muddapur Village Mudhol Taluk, Bagalkot District Karnataka , -587122 | Reference to Work order/ Client request letter/ Purpose of the report | JKCEM/PUR/AJ-03<br>Dated:23.08.2025 |
| Name of the sample                                | Fugitive emission                                                                                              | Monitoring location                                                   | Muddapur Mines<br>Haulage Road      |
| Particulars of sample collected                   | Monitored through Respirable Dust Sampler 460NL                                                                | Date of receipt of sample                                             | 29.12.2025                          |
|                                                   |                                                                                                                | Date of start of analysis                                             | 29.12.2025                          |
|                                                   |                                                                                                                | Date of completion of analysis                                        | 02.01.2026                          |
| Sample collected by                               | M/s. Belgaum Test House LLP, Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum 590015             | Reference to sampling procedure                                       | BTHLLP/QSP/19                       |
| Date of Monitoring                                | 27.12.2025 to 28.12.2025                                                                                       | Time/ duration of sampling                                            | 10:25 am to 06:25 pm                |
| Discipline                                        | Chemical                                                                                                       |                                                                       |                                     |
| Product Group                                     | Atmospheric Pollution                                                                                          |                                                                       |                                     |
| Page No                                           | 1 of 1                                                                                                         |                                                                       |                                     |
| Amendment No & date                               | --                                                                                                             |                                                                       |                                     |

### RESULT TABLE

| SI. No | Parameters                                            | Unit  | Results | Method       |
|--------|-------------------------------------------------------|-------|---------|--------------|
| 1.     | Dust Concentration<br>(Suspended Particulate Matter). | mg/m3 | 0.208   | IS 5182 (P4) |

Reviewed by  
(Vinayak S Naik),  
Senior Analyst

Authorized Signatory  
(Murgesh Bukitgar),  
Technical Manager

\*\*\*End of Test Report\*\*\*

Concern towards protecting Environment

#### Note:

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(ಪರಿಸರ (ಸಂರಕ್ಷಣಾ) ಕಾಯ್ದೆ 1986 ರ ಕಲಂ 12 ರಲ್ಲಿ ಮಾನ್ಯತೆ ಪಡೆದ ಪ್ರಯೋಗಾಲಯ) ನವ ದೆಹಲಿ.

बेलगांव टेस्ट हाउस एलएलपी

(पर्यावरण (संरक्षण) अधिनियम, 1986 अनुभाग 12 की धारा मान्यता प्राप्त प्रयोगशाला) न्यू दिल्ली.

Office Address : Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum - 590 015.

ಕಛೇರಿ ವಿಳಾಸ : ಪ್ಲಾಟ್ ನಂ. 457/458, ಕಾಂಬರ್ಗಿ ಇಂಡಸ್ಟ್ರಿಯಲ್ ಏರಿಯಾ, ಆಟೋನಗರ, ಬೆಳಗಾವಿ - 590 015

ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018

BTHLLP / GEN / F / 26 / 02 / 00

### TEST REPORT

#### ANALYSIS REPORT OF FUGITIVE EMISSION MONITORING

|                                                   |                                                                                                               |                                                                       |                                     |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Test report Number                                | BTHLLP2025005777-1                                                                                            | Test report issue date                                                | 02.01.2026                          |
| Sample code Number                                | BTHLLP/JKCW/A/25/12/5777                                                                                      | ULR Number                                                            | Not applicable                      |
| Name and address of customer with contact details | M/s. J K Cement Works(Unit JK Cement LTD) Muddapur Village Mudhol Taluk, Bagalkot District Karnataka, -587122 | Reference to Work order/ Client request letter/ Purpose of the report | JKCEM/PUR/AJ-03<br>Dated:23.08.2025 |
| Name of the sample                                | Fugitive emission                                                                                             | Monitoring location                                                   | Muddapur Mines - Waste dumping site |
| Particulars of sample collected                   | Monitored through Respirable Dust Sampler 460NL                                                               | Date of receipt of sample                                             | 29.12.2025                          |
|                                                   |                                                                                                               | Date of start of analysis                                             | 29.12.2025                          |
|                                                   |                                                                                                               | Date of completion of analysis                                        | 02.01.2026                          |
| Sample collected by                               | M/s. Belgaum Test House LLP, Plot No. 457/458, Kanbargi Industrial Area, Autonagar, Belgaum 590015            | Reference to sampling procedure                                       | BTHLLP/QSP/19                       |
| Date of Monitoring                                | 27.12.2025 to 28.12.2025                                                                                      | Time/ duration of sampling                                            | 10:35 am to 06:35 pm                |
| Discipline                                        | Chemical                                                                                                      |                                                                       |                                     |
| Product Group                                     | Atmospheric Pollution                                                                                         |                                                                       |                                     |
| Page No                                           | 1 of 1                                                                                                        |                                                                       |                                     |
| Amendment No & date                               | --                                                                                                            |                                                                       |                                     |

#### RESULT TABLE

| Sl. No | Parameters                                         | Unit  | Results | Method       |
|--------|----------------------------------------------------|-------|---------|--------------|
| 1.     | Dust Concentration (Suspended Particulate Matter). | mg/m3 | 0.276   | IS 5182 (P4) |

Reviewed by  
(Vinayak S Naik),  
Senior Analyst

Authorized Signatory  
(Murgesh Bukitgar),  
Technical Manager

\*\*\*End of Test Report\*\*\*

Concern towards protecting Environment

#### Note:

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| J.K. Cement Works, Muddapur<br>(Unit: J K Cement Ltd.) |                            |            |       |         |        |        |        |        |        |      |      |      | Annexure-2 |      |
|--------------------------------------------------------|----------------------------|------------|-------|---------|--------|--------|--------|--------|--------|------|------|------|------------|------|
| AAQ Monitoring Report                                  |                            |            |       |         |        |        |        |        |        |      |      |      |            |      |
| Sr. No.                                                | Locations                  | Parameters | Unit  | Results |        |        |        |        |        |      |      | Min. | Max.       | Avg. |
|                                                        |                            |            |       | Oct-25  | Nov-25 | Dec-25 | Jan-26 | Feb-26 | Mar-26 |      |      |      |            |      |
| 1                                                      | Near Muddapur Mines Office | PM10       | µg/m3 | 68.0    | 58.0   | 54.0   | 68.0   | 70.0   | 49.0   | 49.0 | 70.0 | 61.2 |            |      |
|                                                        |                            | PM2.5      | µg/m3 | 30.0    | 17.0   | 14.0   | 23.0   | 26.0   | 11.0   | 11.0 | 30.0 | 20.2 |            |      |
|                                                        |                            | SO2        | µg/m3 | 11.7    | 8.6    | 6.8    | 12.1   | 13.1   | 7.0    | 6.8  | 13.1 | 9.9  |            |      |
|                                                        |                            | NO2        | µg/m3 | 23.7    | 15.4   | 14.6   | 25.2   | 22.2   | 12.0   | 12.0 | 25.2 | 18.9 |            |      |
| 2                                                      | Petlur                     | PM10       | µg/m3 | 55.0    | 51.0   | 56.0   | 56.0   | 65.0   | 56.0   | 51.0 | 65.0 | 56.5 |            |      |
|                                                        |                            | PM2.5      | µg/m3 | 21.0    | 11.0   | 16.0   | 11.0   | 23.0   | 15.0   | 11.0 | 23.0 | 16.2 |            |      |
|                                                        |                            | SO2        | µg/m3 | 8.7     | 5.9    | 7.5    | 5.9    | 11.2   | 7.7    | 5.9  | 11.2 | 7.8  |            |      |
|                                                        |                            | NO2        | µg/m3 | 14.3    | 11.4   | 16.4   | 12.8   | 18.1   | 14.3   | 11.4 | 18.1 | 14.6 |            |      |
| 3                                                      | Thimmapur Village          | PM10       | µg/m3 | 56.0    | 51.0   | 51.0   | 71.0   | 67.0   | 65.0   | 51.0 | 71.0 | 60.2 |            |      |
|                                                        |                            | PM2.5      | µg/m3 | 22.0    | 13.0   | 11.0   | 27.0   | 25.0   | 21.0   | 11.0 | 27.0 | 19.8 |            |      |
|                                                        |                            | SO2        | µg/m3 | 9.2     | 6.0    | 5.8    | 13.3   | 12.7   | 9.1    | 5.8  | 13.3 | 9.3  |            |      |
|                                                        |                            | NO2        | µg/m3 | 17.6    | 13.3   | 12.7   | 26.5   | 19.7   | 18.5   | 12.7 | 26.5 | 18.0 |            |      |
| 4                                                      | D-Block Quarters           | PM10       | µg/m3 | 46.0    | 75.0   | 65.0   | 59.0   | 54.0   | 69.0   | 46.0 | 75.0 | 61.3 |            |      |
|                                                        |                            | PM2.5      | µg/m3 | 11.0    | 28.0   | 23.0   | 12.0   | 15.0   | 26.0   | 11.0 | 28.0 | 19.2 |            |      |
|                                                        |                            | SO2        | µg/m3 | 6.8     | 14.2   | 11.6   | 6.5    | 7.8    | 11.1   | 6.5  | 14.2 | 9.7  |            |      |
|                                                        |                            | NO2        | µg/m3 | 10.4    | 25.1   | 22.1   | 14.2   | 14.5   | 21.1   | 10.4 | 25.1 | 17.9 |            |      |
| Note: Monitoring done by MoEFCC recognized Lab         |                            |            |       |         |        |        |        |        |        |      |      |      |            |      |



| <div>Annexure-3</div> <div><b><u>MUDDAPUR LIME STONE MINES</u></b></div> <div>(Unit : J.K. Cement Ltd.)</div> <div>Fugitive Emission Monitoring Report of Muddapur Mines</div> |            |              |               |              |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|---------------|--------------|--------------------|
| Sl. No.                                                                                                                                                                        | MONTH/YEAR | SPM (mg/m3)  |               |              |                    |
|                                                                                                                                                                                |            | Loading Area | Drilling Area | Haulage Area | Waste Dumping Site |
| 1                                                                                                                                                                              | Dec-26     | 0.14         | 0.35          | 0.20         | 0.27               |
| 2                                                                                                                                                                              | Mar-26     | 0.20         | 0.30          | 0.22         | 0.28               |
| Minimum                                                                                                                                                                        |            | 0.14         | 0.30          | 0.20         | 0.27               |
| Maximum                                                                                                                                                                        |            | 0.20         | 0.35          | 0.22         | 0.28               |
| Average                                                                                                                                                                        |            | 0.17         | 0.33          | 0.21         | 0.28               |



**J K Cement Works, Muddapur**

(Unit: J.K. Cement Ltd.)

Muddapur Limestone Mines

**Noise Monitoring Report**

| Core Zone |                                |        |        |        |        |        |        |
|-----------|--------------------------------|--------|--------|--------|--------|--------|--------|
| Sl. No.   | Location Name                  | Oct-25 | Nov-25 | Dec-25 | Jan-26 | Feb-26 | Mar-26 |
| 1         | Muddapur Mines Drilling Time   | 61.05  | 67.1   | 70.34  | 67.47  | 65.86  | 64.01  |
| 2         | Muddapur Mines Waste Dump Site | 67.88  | 53.94  | 62.15  | 52.99  | 53.89  | 59.9   |
| 3         | Muddapur Mines Service Road    | 68.04  | 62.64  | 59.13  | 43.33  | 56.95  | 57.72  |

Note: Monitoring done by MoEFCC recognized Lab



**J K Cement Works, Muddapur**

(Unit: J.K. Cement Ltd.)

Muddapur Limestone Mines

**Noise Monitoring Report**

| Buffer Zone |                               |        |        |        |        |        |        |         |         |         |
|-------------|-------------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Sl. No.     | Location Name                 | Oct-25 | Nov-25 | Dec-25 | Jan-26 | Feb-26 | Mar-26 | Minimum | Maximum | Average |
| 1           | Muddapur Mines North Boundary | 69.32  | 58.72  | 54.89  | 62.88  | 64.39  | 56.77  | 54.89   | 69.32   | 61.2    |
| 2           | Muddapur Mines Office         | 64.9   | 49.72  | 46.04  | 56.54  | 57.56  | 62.15  | 46.0    | 64.9    | 56.1    |

Note: Monitoring done by MoEFCC recognized Lab





# RIBHU SAMBIKALPA LAB, LLP

Environmental laboratory, Recognized by: NABL (ISO/IEC: 17025:2017)  
vide certificate No: TC15976 and Certified by ISO (45001:2018)



Certificate No: TC15976

## WATER QUALITY MONITORING DATA

(Borewell Water)

|    |                                                 |                                                                                   |
|----|-------------------------------------------------|-----------------------------------------------------------------------------------|
| 1  | Name of the Industry                            | M/s. JK Cement Works, Muddapur<br>(Unit: J.K. CEMENT LTD.,) P.O. Muddapur- 587122 |
| 2  | Address                                         | Muddapur Village, Mudhol Taluk, Bagalkot District (KAR)- 587122.                  |
| 3  | Sample collected by                             | Ribhu Sambikalpa Lab, LLP                                                         |
| 4  | Name of the Location                            | Muddapur Mines                                                                    |
| 5  | Particular of Sample Collected                  | Bore Well                                                                         |
| 6  | Field Sample code                               | JKGW5                                                                             |
| 7  | Lab Sample Code                                 | RSLW 105                                                                          |
| 8  | Date of sample Collection                       | 31.10.2025                                                                        |
| 9  | Date of Sample Received                         | 01.11.2025                                                                        |
| 10 | Date of Sample Analysed                         | 01.11.2025 to 06.11.2025                                                          |
| 11 | Report Issue Date                               | 07.11.2025                                                                        |
| 12 | Method of Sampling                              | IS:17614(Part-1 )2021                                                             |
| 13 | Environmental condition at the time of sampling | 30.2 °C                                                                           |
| 14 | Unique Lab Report Number                        | TC159762500000000157F                                                             |

| Sl. No   | Parameters                                   | Protocol                                                               | Unit of Measurement | Result | Drinking Water Specification Std.as per IS: 10500:2012 |                    |
|----------|----------------------------------------------|------------------------------------------------------------------------|---------------------|--------|--------------------------------------------------------|--------------------|
|          |                                              |                                                                        |                     | Oct-25 | Desirable Limit                                        | Permissible Limits |
| PHYSICAL |                                              |                                                                        |                     |        |                                                        |                    |
| 1        | Colour                                       | IS:3025(part 4)-1984, RA-2021, Platinum Cobalt Method                  | HAZEN UNIT          | 1.5    | 5                                                      | 15                 |
| 2        | Temperature                                  | IS:3025(part 9)-1984, RA-2023, Thermometer Method                      | C                   | 25.4   | -                                                      | -                  |
| 3        | Conductivity                                 | IS:3025(part 14)-1984, RA-2019, Electrometric Method                   | μ/cms               | 1236   | -                                                      | -                  |
| 4        | Total Dissolved Solids                       | IS:3025(part 16)-1984, RA-2023, Gravimetric Method                     | Mg/L                | 984    | 500                                                    | 2000               |
| 5        | pH                                           | IS:3025(part 11)-1983, RA-2012, Electrometric Method                   | -                   | 7.11   | 6.5-8.5                                                | No Relaxation      |
| 6        | Turbidity (NTU)                              | IS:3025(part 10)-1984, RA-2023, Nephelometric Method                   | NTU                 | 0.50   | 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                | 6.90   | -                                                      | -                  |
| 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                | 0.80   | -                                                      | -                  |
| 10       | Chemical oxygen Demand                       | APHA 24Th 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                | 0.428  | -                                                      | -                  |
| 12       | Sodium as Na                                 | IS:3025(part 45)-1993, RA-2019, Flame Emission photometric Method      | mg/L                | 92.4   | -                                                      | -                  |



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ON-SAS 18001:2007





# RIBHU SAMBIKALPA LAB, LLP

Environmental laboratory, Recognized by: NABL (ISO/IEC: 17025:2017)  
vide certificate No: TC15976 and Certified by ISO (45001:2018)



Certificate No: TC15976

| Sl. No              | Parameters                            | Protocol                                                                                | Unit of Measurement | Result | Drinking Water Specification Std.as per IS: 10500:2012 |                    |
|---------------------|---------------------------------------|-----------------------------------------------------------------------------------------|---------------------|--------|--------------------------------------------------------|--------------------|
|                     |                                       |                                                                                         |                     | Oct-25 | Desirable Limit                                        | Permissible Limits |
| 13                  | Potassium as K                        | IS:3025(part 17)-1984, RA-2019, Flame Emission photometric Method                       | mg/L                | 0.1    | -                                                      | -                  |
| 14                  | Calcium as Ca                         | IS:3025(part 40)-1991, RA-2019, EDTA Titrimetric Method                                 | mg/L                | 132.87 | 75                                                     | 200                |
| 15                  | Magnesium as Mg                       | APHA 24 <sup>th</sup> Edition 350-B-mg by Calculation                                   | mg/L                | 34.98  | 30                                                     | 100                |
| 16                  | Total Hardness as CaCO <sub>3</sub>   | IS:3025(part 21)-1983, RA-2019, EDTA Titrimetric Method                                 | mg/L                | 474    | 300                                                    | 600                |
| 17                  | Chlorides as Cl                       | IS:3025(part 32)-1988, RA-2019, Argentometric method                                    | mg/L                | 262.85 | 250                                                    | 1000               |
| 18                  | Sulphates as SO <sub>4</sub>          | APHA 24 <sup>th</sup> Edition 4500-SO <sub>4</sub> <sup>2-</sup> E Turbidimetric Method | mg/L                | 76.95  | 200                                                    | 400                |
| 19                  | Fluoride as F                         | APHA 24 <sup>th</sup> Edition 4500-F.D. SPADNS Method                                   | mg/L                | 0.84   | 1                                                      | 1.50               |
| 20                  | Nitrate Nitrogen as NO <sub>3</sub>   | IS:3025(part 34)-1988, RA-2019, Chromotropic acid method                                | mg/L                | 2.19   | 45                                                     | No Relaxation      |
| 21                  | Total Alkalinity as CaCO <sub>3</sub> | IS:3025(part 23)-1986, RA-2023, Indicator method                                        | mg/L                | 480    | 200                                                    | 600                |
| 22                  | Acidity as CaCO <sub>3</sub>          | 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    | -                                                      | -                  |
| <b>TRACE METALS</b> |                                       |                                                                                         |                     |        |                                                        |                    |
| 24                  | Total Iron as Fe                      | APHA 24 <sup>th</sup> Edition 311B-B Direct Air acetylene Flame Method                  | mg/L                | BDL    | 0.30                                                   | No Relaxation      |
| 25                  | Nickel as Ni                          | APHA 24 <sup>th</sup> Edition 311B-B Direct Air acetylene Flame Method                  | mg/L                | BDL    | 0.02                                                   | No Relaxation      |
| 26                  | Manganese as Mn                       | APHA 24 <sup>th</sup> Edition 311B-B Direct Air acetylene Flame Method                  | mg/L                | BDL    | 0.10                                                   | 0.30               |
| 27                  | Copper as Cu                          | APHA 24 <sup>th</sup> Edition 311B-B Direct Air acetylene Flame Method                  | mg/L                | BDL    | 0.05                                                   | 1.50               |
| 28                  | Zinc as Zn                            | APHA 24 <sup>th</sup> Edition 311B-B Direct Air acetylene Flame Method                  | mg/L                | BDL    | 5                                                      | 15                 |
| 29                  | Lead as Pb                            | APHA 24 <sup>th</sup> Edition 311B-B Direct Air acetylene Flame Method                  | mg/L                | BDL    | 0.01                                                   | No Relaxation      |
| 30                  | Silver as Ag                          | APHA 24 <sup>th</sup> Edition 311B-B Direct Air acetylene Flame Method                  | mg/L                | BDL    | 0.10                                                   | No Relaxation      |
| 31                  | Chromium as Cr                        | APHA 24 <sup>th</sup> Edition 311B-B Direct Air acetylene Flame Method                  | mg/L                | BDL    | 0.05                                                   | No Relaxation      |

## End of Report

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

ANALYZED BY:

1. (K. Somasekhar Rao)  
Analyst

2. (G. Dhavaneswar)  
Analyst

VERIFIED BY:

(P. Harika)  
Technical Manager

AUTHORISED SIGNATORY:

(M. Sankhikala)  
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# RIBHU SAMBIKALPA LAB, LLP

Environmental laboratory. Recognized by: NABL (ISO/IEC: 17025:2017)  
vide certificate No: TC15976 and Certified by ISO (45001:2018)



Certificate No:TC15976

## WATER QUALITY MONITORING DATA

(Borewell Water)

|    |                                                 |                                                                                   |
|----|-------------------------------------------------|-----------------------------------------------------------------------------------|
| 1  | Name of the Industry                            | M/s. JK Cement Works, Muddapur<br>(Unit: J.K. CEMENT LTD.,) P.O, Muddapur- 587122 |
| 2  | Address                                         | Muddapur Village, Mudhol Taluk, Bagalkot District (KAR)- 587122.                  |
| 3  | Sample collected by                             | Ribhu Sambikalpa Lab, LLP                                                         |
| 4  | Name of the Location                            | Muddapur Mines                                                                    |
| 5  | Particular of Sample Collected                  | Bore Well                                                                         |
| 6  | Field Sample code                               | JKGW5                                                                             |
| 7  | Lab Sample Code                                 | RSLW 105                                                                          |
| 8  | Date of sample Collection                       | 31.10.2025                                                                        |
| 9  | Date of Sample Received                         | 01.11.2025                                                                        |
| 10 | Date of Sample Analysed                         | 01.11.2025 to 06.11.2025                                                          |
| 11 | Report Issue Date                               | 07.11.2025                                                                        |
| 12 | Method of Sampling                              | IS:17614(Part-1)2021                                                              |
| 13 | Environmental condition at the time of sampling | 30.2 °C                                                                           |
| 14 | Unique Lab Report Number                        | TC1597625000000000157F                                                            |

| Sl. No          | Parameters           | Protocol                                                                  | Unit of Measurement | Result | Drinking Water Specification<br>Std.as per IS: 10500:2012 |                    |
|-----------------|----------------------|---------------------------------------------------------------------------|---------------------|--------|-----------------------------------------------------------|--------------------|
|                 |                      |                                                                           |                     | Oct-25 | Desirable Limit                                           | Permissible Limits |
| TRACE METAL     |                      |                                                                           |                     |        |                                                           |                    |
| 1.              | Mercury              | APHA 24 <sup>th</sup> Edition 3112 B<br>Direct Air acetylene Flame Method | mg/L                | BDL    | 0.001                                                     | No Relaxation      |
| MICROBIOLOGICAL |                      |                                                                           |                     |        |                                                           |                    |
| 2               | Total Coliform Count | APHA 24 <sup>th</sup> Edition 9222-B<br>Membrane Filter technique         | CFU/100 ml          | Absent | Shall not be detectable in any 100 ml sample              | -                  |
| 3               | E. Coli Count        | APHA 24 <sup>th</sup> Edition 3112 B<br>Direct Air acetylene Flame Method | CFU/100 ml          | Absent | Shall not be detectable in any 100 ml sample              | -                  |

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

ANALYZED BY:

1. (M. Somasekhara Rao)

Analyst

2. (G. Dhavathwar)

Analyst

VERIFIED BY:

(P. Harika)

Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)  
Head of the Laboratory



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# RIBHU SAMBIKALPA LAB, LLP

Environmental laboratory, Recognized by: NABL (ISO/IEC: 17025:2017)  
vide certificate No: TC15976 and Certified by ISO (45001:2018)



Certificate No: TC15976

## Analysis Report of Mines Pit Water

|    |                                                 |                                                                                   |
|----|-------------------------------------------------|-----------------------------------------------------------------------------------|
| 1  | Name of the Industry                            | M/s. JK Cement Works, Muddapur<br>(Unit: J.K. CEMENT LTD.,) P.O, Muddapur- 587122 |
| 2  | Address                                         | Muddapur Village, Mudhol Taluk, Bagalkot District (KAR)- 587122.                  |
| 3  | Sample collected by                             | Ribhu Sambikalpa Lab, LLP                                                         |
| 4  | Name of the Location                            | Muddapur Mines                                                                    |
| 5  | Particular of Sample Collected                  | Mines Pit Water                                                                   |
| 6  | Field Sample code                               | JKGW5                                                                             |
| 7  | Lab Sample Code                                 | RSLW 149                                                                          |
| 8  | Date of sample Collection                       | 31.10.2025                                                                        |
| 9  | Date of Sample Received                         | 01.11.2025                                                                        |
| 10 | Date of Sample Analysed                         | 01.11.2025 to 06.11.2025                                                          |
| 11 | Report Issue Date                               | 07.11.2025                                                                        |
| 12 | Method of Sampling                              | IS:17614(Part-1 )2021                                                             |
| 13 | Environmental condition at the time of sampling | 29.5 °C                                                                           |
| 14 | Unique Lab Report Number                        | TC159762500000000419F                                                             |

| Sl. No   | Parameters                 | Protocol                                                          | Unit of Measurement | Result | General Standards for Inland Surface Water Schedule- VI (EPA-'86) |
|----------|----------------------------|-------------------------------------------------------------------|---------------------|--------|-------------------------------------------------------------------|
|          |                            |                                                                   |                     | Oct-25 | Limits                                                            |
| PHYSICAL |                            |                                                                   |                     |        |                                                                   |
| 1        | Colour                     | IS:3025(part 4)-1984, RA-2021, Platinum Cobalt Method             | HAZEN UNIT          | 4      | -                                                                 |
| 2        | Conductivity               | IS:3025(part 14)-1984, RA-2019, Electrometric Method              | μ/cms               | 749    | -                                                                 |
| 3        | Total Dissolved Solids     | IS:3025(part 16)-1984, RA-2023, Gravimetric Method                | Mg/L                | 486    | -                                                                 |
| 4        | pH                         | IS:3025(part 11)-1983, RA-2022, Electrometric Method              | -                   | 8.10   | 5.50 to 9.0                                                       |
| 5        | Turbidity (NTU)            | IS:3025(part 10)-1984, RA-2017, Nephelometric Method              | NTU                 | 3.00   | -                                                                 |
| CHEMICAL |                            |                                                                   |                     |        |                                                                   |
| 6        | Dissolved Phosphate as PO4 | IS:3025 (part 31)-1988, RA-2021 Stannous chloride method          | mg/L                | 0.156  | 5                                                                 |
| 7        | Sodium as Na               | IS:3025 (part 45)-1993, RA-2019 Flame Emission photometric method | mg/L                | 134.6  | -                                                                 |
| 8        | Potassium as K             | IS:3025 (part 45)-1993, RA-2019 Flame Emission photometric method | mg/L                | 1.90   | -                                                                 |
| 9        | Calcium as Ca              | IS:3025 (part 40)-1991, RA-2019 EDTA Titrimetric method           | mg/L                | 40.08  | -                                                                 |
| 10       | Magnesium as Mg            | APHA 23rd Edition 3500-B-Mg By calculation                        | mg/L                | 17.46  | -                                                                 |
| 11       | Total Hardness as CaCO     | IS:3025 (part 32)-1983, RA-2019 EDTA Titrimetric method           | mg/L                | 172    | -                                                                 |
| 12       | Chloride as Cl             | IS:3025 (part 32)-1988, RA-2019 Argentometric Method method       | mg/L                | 95.41  | -                                                                 |



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# RIBHU SAMBIKALPA LAB, LLP

Environmental laboratory, Recognized by: NABL (ISO/IEC: 17025:2017)  
vide certificate No: TC15976 and Certified by ISO (45001:2018)



Certificate No:TC15976

| Sl. No              | Parameters                            | Protocol                                                                        | Unit of Measurement | Result | General Standards for Inland Surface Water Schedule- VI (EPA-'86) |
|---------------------|---------------------------------------|---------------------------------------------------------------------------------|---------------------|--------|-------------------------------------------------------------------|
|                     |                                       |                                                                                 |                     | Oct-25 | Limits                                                            |
| 13                  | Sulphate as SO <sub>4</sub>           | APHA 23rd Edition 4500-SO <sub>4</sub> -E (P.NO.4-190-191) Turbidimetric Method | Mg/L                | 22.98  | -                                                                 |
| 14                  | Fluoride as F                         | APHA 23rd Edition 4500-F D (P.NO.4-87-88) SPADNS Method                         | Mg/L                | 0.89   | 2                                                                 |
| 15                  | Nitrate Nitrogen as NO <sub>3</sub>   | IS:3025 (part 34)-1988, RA-2019 Chromotropic acid method                        | Mg/L                | 0.774  | 10                                                                |
| 16                  | Total Alkalinity as CaCO <sub>3</sub> | IS:3025 (part 23)-1986, RA-2019 Indicator method                                | Mg/L                | 90     | -                                                                 |
| <b>TRACE METALS</b> |                                       |                                                                                 |                     |        |                                                                   |
| 17                  | Total Iron as Fe                      | APHA 23rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method           | Mg/L                | BDL    | 3                                                                 |
| 18                  | Nickel as Ni                          | APHA 23rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method           | Mg/L                | BDL    | 3                                                                 |
| 19                  | Manganese as Mn                       | APHA 23rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method           | Mg/L                | BDL    | 2                                                                 |
| 20                  | Copper as Cu                          | APHA 23rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method           | Mg/L                | BDL    | 3                                                                 |
| 21                  | Zinc as Zn                            | APHA 23rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method           | Mg/L                | BDL    | 3                                                                 |
| 22                  | Lead as Pb                            | APHA 23rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method           | Mg/L                | BDL    | 0.10                                                              |
| 23                  | Chromium as Cr                        | APHA 23rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method           | Mg/L                | BDL    | 2                                                                 |

## End of Report

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

ANALYZED BY:

1. (K. Somasekhar Rao)

Analyst

2. (G. Dhavathwar)

Analyst

VERIFIED BY:

(P. Harika)

Technical Manager

AUTHORISED SIGNATORY:

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Head of the Laboratory



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Certificate No: TC15976

## Analysis Report of Mines Pit Water

|    |                                                 |                                                                                   |
|----|-------------------------------------------------|-----------------------------------------------------------------------------------|
| 1  | Name of the Industry                            | M/s. JK Cement Works, Muddapur<br>(Unit: J.K. CEMENT LTD.,) P.O, Muddapur- 587122 |
| 2  | Address                                         | Muddapur Village, Mudhol Taluk, Bagalkot District (KAR)- 587122.                  |
| 3  | Sample collected by                             | Ribhu Sambikalpa Lab, LLP                                                         |
| 4  | Name of the Location                            | Muddapur Mines                                                                    |
| 5  | Particular of Sample Collected                  | Mines Pit Water                                                                   |
| 6  | Field Sample code                               | JKGW5                                                                             |
| 7  | Lab Sample Code                                 | RSLW 149                                                                          |
| 8  | Date of sample Collection                       | 31.10.2025                                                                        |
| 9  | Date of Sample Received                         | 01.11.2025                                                                        |
| 10 | Date of Sample Analysed                         | 01.11.2025 to 06.11.2025                                                          |
| 11 | Report Issue Date                               | 07.11.2025                                                                        |
| 12 | Method of Sampling                              | IS:17614(Part-1 )2021                                                             |
| 13 | Environmental condition at the time of sampling | 29.5 °C                                                                           |
| 14 | Unique Lab Report Number                        | TC1597625000000000419F                                                            |

| Sl. No      | Parameters | Protocol                                                                 | Unit of Measurement | Result | General Standards for Inland Surface Water Schedule- VI (EPA-'86) |
|-------------|------------|--------------------------------------------------------------------------|---------------------|--------|-------------------------------------------------------------------|
|             |            |                                                                          |                     | Oct-25 | Limits                                                            |
| TRACE METAL |            |                                                                          |                     |        |                                                                   |
| 1.          | Mercury    | APHA 23rd Edition 3112 B (p.no.3-23<br>Direct Air acetylene Flame Method | mg/L                | BDL    | 0.001                                                             |

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

ANALYZED BY:

1. (K. Somasekhara Rao)  
Analyst

2. (G. Dhananjaya)  
Analyst

VERIFIED BY:

(P. Harika)  
Technical Manager

AUTHORISED SIGNATORY:

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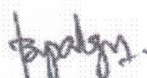


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**M/s. J K Cement Works Muddapur****Environmental Expenditure for Muddapur Limestone Mine-2343(A)****Oct 2025 to Mar 2026**

| <b>Sl. No.</b> | <b>Particulars</b>           | <b>Cost (In Rs.)</b> | <b>Remarks</b>                                     |
|----------------|------------------------------|----------------------|----------------------------------------------------|
| 1              | Pollution Control            | 22,50,000/-          | Water tankers for haul road dust suppression       |
| 2              | Pollution Monitoring         | 1,00,000/-           |                                                    |
| 3              | Occupational Health & Safety | 1,00,000/-           | Drinking Water facility, Rest shelter etc          |
| 4              | Green belt                   | 2,00,000/-           | Gardener Salary                                    |
| 5              | Reclamation                  | 0                    |                                                    |
| 6              | Others                       | 3,00,000/-           | JCB expenses                                       |
|                | <b>Total</b>                 | <b>29,50,000/-</b>   | <b>Rupees Twenty Nine lakh fifty thousand Only</b> |

  
**Mines Manager**
**Muddapur Limestone Mine**



| Annexure - 7                           |                      |                                                   |             |
|----------------------------------------|----------------------|---------------------------------------------------|-------------|
| Details of CSR Expenditure for 2025-26 |                      |                                                   |             |
| Sr.No                                  | Focus area           | Particulars                                       | Amount (Rs) |
| 1                                      | Health               | Support for Health care, Training and Medical Aid | 824619.99   |
| 2                                      | Education            | Education aid and Support for Schools             | 7823140.39  |
| 3                                      | Rural Transformation | Rural Development & Other Welfare Activities      | 672974      |
| 4                                      | Other                | Miscellaneous Activities                          | 952129.02   |
| Grand Total                            |                      |                                                   | 10272863.4  |