



JK Cement Works, Aligarh

A unit of JK Cement LTD.

(CIN: L17228UP1984PLC017198)
ISO 9001 & ISO 14001 CERTIFIED COMPANY

Web : www.jkcement.com

Aligarh – Kasimpur Road,
Village – Satha, Pargana – Morhali,
Tehsil Koil, District Aligarh - 202127

Ref. No.: AL/EMD/MoEF/F 01/001

Dated: 24.11.2020

To,
Regional Office
Ministry of Environment & Forest (Central Region)
Kandriya Bhawan, 5th Floor, Sector-H, Aliganj,
Lucknow (UP)
E-Mail: roc2.lko-mef@nic.in

Subject: Half yearly (April' 2020 - September' 2020) Environmental Clearance Compliance Report of our
Clinker Grinding Unit capacity 2.00 MMTPA at Village: Satha, Tehsil: Koil, District: Aligarh.

Ref. No. EC Letter No. 532/Parya/SEAC/4214/2018, Dated: 27th November, 2018.

Dear Sir,

Refer to the above subject & reference, we are enclosing herewith compliance report of Environment Clearance for Clinker Grinding Unit capacity 2.0 MMTPA of M/s JK Cement Works, Village: Satha, Tehsil: Koil, District: Aligarh for the period (April' 2020 - September' 2020).

Environment Clearance Condition No. X. Miscellaneous vi: -

The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the web site of the ministry of Environment, Forest and Climate Change at environment clearance portal.

Please find the above for your ready reference.

Thanking you,

Yours faithfully,
For JK Cement Works


Unit Head 

Encl.: Copy of Environmental Clearance Compliance Report.
Copy to:

1. The Member Secretary, UP Pollution Control Board, TC-12V, Paryavaran Bhawan, Vibhuti Khand, Gomti Nagar, **Lucknow (UP)**.
E. mail: ms@uppcb.com
2. The Regional Officer, UP Pollution Control Board,
J-1, Gyan Sarovar Colony, Ramghat Road
Aligarh (UP)
E. mail: roaligarh@uppcb.com



Corporate & Registered Office : Kamla Tower, Kanpur-200001, (U. P.) INDIA

Phone : +91-512-2371478 to 81 Fax : +91-512-2390854 E-mail: ho.grey@jkcement.com

J.K. Cement Works, Nimbahera
J.K. Cement Works, Mangrol
J.K. Cement Works, Gotan
J.K. Cement Works, Jharli

J.K. Power, Bamania
J.K. Cement Works, Muddapur
J.K. White Cement Works, Gotan
J.K. White, Katni



Environmental Clearance Conditions Compliance Status Report

Environmental Clearance for Establishment of Clinker Grinding Unit of Capacity: 2.00 Million Ton per Annum (5836.0 TPD) at Village- Satha, Tehsil- Koil, District- Aligarh of M/s JK Cement Works.

EC Letter No. 532/Parya/SEAC/4214/2018, Dated: 27th November, 2018.

Updated: 24th Nov' 2020.

| C. No. | S. No. | Details of Conditions | Conditions Compliance Status |
|-----------|--|---|--|
| I | Statutory compliance | | |
| | i | The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project. | Not Applicable. There is no any forest land involved in the project area |
| | ii | The project proponent shall obtain clearance from the National Board for Wild life, if applicable | Not Applicable. |
| | iii | The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wild life Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six- monthly compliance report. (in case of the presence of schedule-I species in the study area). | Not Applicable. There is no any schedule-I species presence in project core zone as well as buffer zone. |
| | iv | The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee. | Complied with. Consent To Establish obtained from UPPCB vide letter No. 26748/UPPCB/Aligarh(UPPCBRO)/CTE/Aligarh/ 2018, dated 20.08.2018. |
| | v | The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water from the competent authority concerned in case of drawl of surface water required for the project. | Complied with. Water NOC obtained from CGWA, New Delhi vide NOC No. CGWA/NOC/IND/ORIG/2018/4589, dated 11.01.2019 & 26.04.2019. |
| | vi | The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time. | Complied with. HW authorization obtained from UPPCB vide 11919/UPPCB/Aligarh(UPPCBRO)/HW M/ALIGARH/2020 Dated: 12/06/2020 & amendment vide letter no. H50793 C-4/ Hazards/2019 dated 08/07/2020, on dated 25.05.2020. |
| II | Air quality monitoring and preservation | | |
| | i | The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 vide G.S.R. No. 612 (E) dated 25 th August, 2014 (Cement) and subsequent amendment dated 9 th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | Complied with. JKCW have been installed Online Continuous Emission Monitoring System (CEMS) at Cement Mill stack to monitor stack emission with respect to standards prescribed by SPCB and CPCB and Connectivity of the OCEMS with the server UPPCB completed and sent request to CPCB to get connected. |
| | ii | The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986. | Complying with. Fugitive dust emission is being monitored from recognized lab. |

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| | | | Reports are enclosed as Annexure-1 |
| | iii | The project proponent shall install system carryout to Ambient Air Quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering up wind and downwind directions.(case to case basis small plants :Manual; Large plants: Continuous). | Complying with. Ambient Air Quality monitoring is being done at four locations. Reports are Annexure-1 . |
| | iv | The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report. | Complying with. Reports of continuous stack emission, manual stack monitoring and manual air quality/ fugitive monitoring are being submitted regularly. For latest report please refer Annexure-1 . |
| | v | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards. | Complied with. Copy submitted vide letter No. AL/EMD/MoEF/ 2019-20/F01/001, dated: 29.06.2019. |
| | vi | The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags. | Complied with. Mechanised bag cleaning facilities of Bag filters and Leakage detection system has been provided. |
| | vii | Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB. | Complying with. |
| | viii | Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly. | Complied with. 01 no. of mobile vacuum cleaner has been provided to clean plant roads, shop floors and roofs regularly. |
| | ix | Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash. | Complying with. Covered transportation is in practise & closed bulkers is used for carrying fly ash. |
| | x | Provide wind shelter fence and chemicals spraying on the raw material stockpiles. | Complied with. Raw materials are being stored in covered shed. |
| | xi | Have separate truck parking area and monitor vehicular emissions at regular interval. | Complied with. Separate truck parking area has been provided and vehicle entry allow with valid PUC only in the plant. |
| | xii | Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport. | Complied with. Covered conveyor belts for transportation of the raw materials and end products has been provided. |
| | xiii | Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, Cement bagging plants. | Complied with. Ventilation system has been provided. |
| III | Water quality monitoring and preservation: | | |
| | i | The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25 th August, 2014 (Cement) and sub sequent amendment dated 9 th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time | Not Applicable. There is no any effluent generation. |

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| | | according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (Case to case basis small plants: Manual; Large plants: Continuous). | |
| | ii | The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers / sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories. | Complying with. Ground water quality monitoring is being done regularly through labs recognized under Environment (Protection) Act, 1986 and NABL accredited. Reports are enclosed as Annexure-2 . |
| | iii | The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report. | Not Applicable. There is no any effluent generation. |
| | iv | Adhere to Zero Liquid Discharge | Complying with. Zero Liquid Discharge is being maintained. |
| | v | Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards. | Not Applicable. Domestic water consumption is less than 10 KLD and waste water is being disposed in Soak Pit Via Septic Tank. |
| | vi | Garland drains and collection pits shall be provided for each stock pile to arrest the run- off in the event of heavy rain sand to check the water pollution due to surface runoff. | Not Applicable. All raw materials are stored under covered shed. Hence no requirement of garland drains and collection pit. |
| | vii | The project proponent shall practice rain water harvesting to maximum possible extent. | Complied with. Three numbers of rain water harvesting structure has been provided. |
| | viii | Water meters shall be provided at the inlet to all unit processes in the cement plant. | Complied with. Water meters at the inlet of all process unit has been provided in the Cement Plant. |
| | ix | The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water. | Complying with. |
| IV | Noise monitoring and prevention | | |
| | i. | Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. | Complying with. Noise monitoring is being done regularly and reports are enclosed as Annexure-3 . |
| | ii | The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75dB (A) during day time and 70dB (A) during night time. | Complying with. Noise monitoring is being done regularly and reports are enclosed as Annexure-3 . |
| V | Energy Conservation measures | | |
| | i. | Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly. | JXCW exploring the feasibility of roof top solar power generation. |
| | ii | Provide the project proponent for LED lights in their offices and residential areas. | Complied with. LED lights in the offices has been |

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| | | | provided. |
| | iii | Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards. | Complying with. Max. fly ash & sweetener are being used as per BIS norms. |
| VI | Waste management | | |
| | i. | The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016. | Complied with. HW authorization obtained from UPPCB vide 11919/UPPCB/Aligarh(UPPCBRO)/HW M/ALIGARH/2020 Dated: 12/06/2020 & amendment vide letter no. H50793 C-4/ Hazards/2019 dated 08/07/2020. on dated 25.05.2020. |
| | ii | Kitchen waste shall be composted or converted to biogas for further use. (To be decided on case to case basis depending on type and size of plant). | JKCW will be explore for best practice for the same. |
| VII | Green Belt | | |
| | i. | Green belts shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guide lines. The green belt shall inter alia cover the entire periphery of the plant | Complying with. 2200 nos. of trees are planted till 30 th September 2020. Which is 30% of plant area. Proposed plantation details are 300 more trees will be planted till 31 st March 2021. |
| | ii | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation. | Complying with. JKCW will be prepare GHG emissions inventory for the plant and submit report for reduction of the carbon sequestration including plantation. |
| VIII | Public hearing and Human health issues | | |
| | i | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. | Complying with. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan are under progress. |
| | ii | The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act. | Complied with. Personal Protective Equipment (PPE's) to Staff & Workmen has been provided as per the norms of Factory Act. |
| | iii | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. | There is no any construction work is going on. |
| | iv | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. | Complying with. Pre-employment and periodical medical examination with records for all the workers are doing on regular basis as per Factories Act & Rules. |
| IX | Corporate Environment Responsibility | | |
| | i | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III | Complying with. |

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| | | dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility. | CER details are enclosed as Annexure-4 |
| | ii | The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest / wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms / conditions and shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report. | Complied with. JKCW already submitted the copy vide letter No. AL/EMD/MoEF/ 2019-20/F01/001, dated: 29.06.2019. |
| | iii | A separate Environmental Cell both at the project and company head quarter level with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization. | Complied with. |
| | iv | Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry /Regional Office along with the Six Monthly Compliance Report. | Complying with. EMP expenditure details are enclosed as Annexure-5. |
| | v | Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out. | Agreed & Noted |
| | vi | All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented. | Complied with. |
| X | Miscellaneous | | |
| | i | Directions/ suggestions given during public hearing and Commitment made by the project proponent should be strictly complied. | Complied with. |
| | ii | The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's web site permanently. | Complied with. Copy has been submitted vide letter No. AL/EMD/MoEF/ 2019-20/F01/001, dated: 29.06.2019. Please refer the same. |
| | iii | The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt. | Complied with. Copy has been submitted vide letter No. AL/EMD/MoEF/18-19/F01/006, dated: 04.12.2018. Please refer the same. |
| | iv | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis. | Complying with. Status of compliance of environment clearance conditions including results of monitored data has been uploaded |

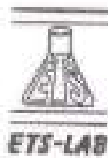
| | | | |
|--|-------|---|--|
| | | | on company website and updating the same on half yearly basis.. |
| | v | The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. | Complied with. The criteria pollutants is being monitored & result displayed at the main gate through digital display board and also uploaded along with EC compliance report. |
| | vi | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the web site of the ministry of Environment, Forest and Climate Change at environment clearance portal. | Complying with. |
| | vii | The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the web site of the company. | Complying with. Copy of Form-V is enclosed as Annexure-6 |
| | viii | The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project. | Complied with. Company start the land development work on 14.12.2018 and inform the RO & HO, MoEFCC vide letter No. JK/Aligarh/EC/2018-19/F 03/004 dated 19.12.2018. We have start the production operation from 03.02.2020. |
| | ix | The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government. | Noted. |
| | x | The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. | Noted. |
| | xi | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment Forests and Climate Change (MoEF&CC). | Noted. |
| | xii | Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986. | Noted. |
| | xiii. | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. | Noted. |
| | xiv | The Ministry reserves the right to stipulate additional conditions if found necessary. | Noted. |
| | xv | The Company in a time bound manner shall implement these conditions. | Noted. |
| | xvi | The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports. | Noted. |
| | xvii | The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, | Noted. |

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| | | 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter. | |
| | xviii | Any appeal against this EC shall lie with the National Green Tribunal, if preferred, with in a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. | Noted. |

Yours faithfully,
For JK Cement Works


 (Sanyog Dubey)
 Unit Head





ENVIRO-TECH SERVICES

An Analytical Laboratory

An Environment, Food, Ayush, Fuel, Soil, Ores & Minerals Analytical Laboratory

(An ISO 9001:2015, 14001:2015 and 45001:2018 Certified Company)

Recognised by MoEF (Govt. of India), Accredited by ISO/IEC-17025:2017 (NABL) & UPPCB

Plot No. 1/32, South Side G.T. Road Industrial Area, Ghaziabad (U.P.)-201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

TEST REPORT NO.: ETS/268/09/2020

URL:NOTCE5771020000001117F

DATE OF REPORT: 22.09.2020

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date Of Sampling : 17.09.2020
Analysis Start Date : 18.09.2020
Analysis End Date : 22.09.2020
Duration Of Sampling : 60.0 MIN
Sample ID No. : 268/09
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : CEMENT MILL
Capacity Of Stack : 260.0 TPH
Quantity Of Fuel Used : ———
Type Of Fuel Used : ———
Stack Height Above Ground : 30.0 MTR.
Stack Dia At The Top : 2350.0 MM
Material Of Construction : M.S.
Attached APCS : ———
Normal Operating Schedule : NORMAL
Ambient Temperature : 33.0 °C
Flue Gas Temperature : 69.0 °C
Velocity Of Flue Gases : 6.5 MTR./SEC.

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|--------------------------|--------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters.(PM) | mg/Nm ³ | 12.0 | 30 | IS-11255 (Part-1) |

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



Page 1 of 1

For Enviro-Tech Services

Md Humraj

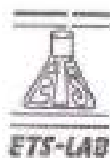
Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amst. No. 04 Date 01.04.2019

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after 15 days from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-252, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201815



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



NABL Accredited Lab
Cert. No. TC-8771



TEST REPORT

TEST REPORT NO.: ETS/250/09/2020

URL: NOTC8771020000001059F

DATE OF REPORT: 22.09.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020

Analysis Start Date : 18.09.2020

Analysis End Date : 22.09.2020

Duration Of Monitoring : 17.09.2020 To 18.09.2020

Time Of Monitoring : 10:30 AM To 10:25 AM

Sample ID No : 250/09

Sampling Done By : ETS STAFF

Sampling Location : PLANT BOUNDARY TOWARDS EAST DIRECTION

Sampling Method : ETS/STPIAIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 34.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|--|-------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters.(PM ₁₀) | µg/m ³ | 92.9 | For 24 Hrs.=100 | IS 5182 (Part-23) |
| 2 | Particulate Matters.(PM _{2.5}) | µg/m ³ | 47.4 | For 24 Hrs.=80 | ETS/STPIAIR-03 |
| 3 | Sulphur Dioxide, (SO ₂) | µg/m ³ | 12.8 | For 24 Hrs.=80 | IS: 5182 (Part-2) |
| 4 | Nitrogen Dioxide.(NO ₂) | µg/m ³ | 33.5 | For 24 Hrs.=80 | IS: 5182 (Part-6) |

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



Page 1 of 1

For Enviro-Tech Services

Md Humraj

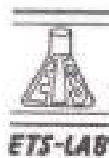
Quality Manager

AUTHORIZED SIGNATORY

Formal No ETS/LAB/TR-01, Issue No. 06, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

Notes:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after 15 days from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-232, M.G. Road Industrial Area, Nagar-Ghaziabad (U.P.) 201015



ENVIRO-TECH SERVICES

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Plot No. 1/32, South Side G.T. Road Industrial Area, Ghaziabad (U.P.)-201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

TEST REPORT NO.: ETS/251/09/2020

URL:NOTC8771020000001100F

DATE OF REPORT: 22.09.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s, J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020
Analysis Start Date : 18.09.2020
Analysis End Date : 22.09.2020
Duration Of Monitoring : 17.09.2020 To 18.09.2020
Time Of Monitoring : 10:30 AM To 10:25 AM
Sample ID No : 251/09
Sampling Done By : ETS STAFF
Sampling Location : PLANT BOUNDARY TOWARDS NORTH DIRECTION
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLEAR Ambient Temperature: 34.0 °C
Wind Direction : E To W
Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|--|-------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters.(PM ₁₀) | µg/m ³ | 87.5 | For 24 Hrs.=100 | IS 5182 (Part-23) |
| 2 | Particulate Matters.(PM _{2.5}) | µg/m ³ | 45.2 | For 24 Hrs.=60 | ETS/STP/AIR-03 |
| 3 | Sulphur Dioxide.(SO ₂) | µg/m ³ | 15.9 | For 24 Hrs.=80 | IS: 5182 (Part-2) |
| 4 | Nitrogen Dioxide.(NO ₂) | µg/m ³ | 28.3 | For 24 Hrs.=80 | IS: 5182 (Part-6) |

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

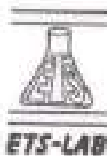
For Enviro-Tech Services

Md Humraj
Supply Manager
AUTHORIZED SIGNATORY

Form# No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2018, Amd. No. 04 Date 01.04.2019

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after 15 days from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-232, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201015



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911510076, 9811736063



NABL Accredited Lab
Cert. No. TC-3771

TEST REPORT

TEST REPORT NO.: ETS/252/002020

URL: NOTC8771020000001101F

DATE OF REPORT: 22.09.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020

Analysis Start Date : 18.09.2020

Analysis End Date : 22.09.2020

Duration Of Monitoring : 17.09.2020 To 18.09.2020

Time Of Monitoring : 10:30 AM To 10:15 AM

Sample ID No : 252/09

Sampling Done By : ETS-STAFF

Sampling Location : PLANT BOUNDARY TOWARDS WEST DIRECTION
(PROJECT OFFICE)

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 34.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) * Fine Particulate Sampler (PM_{2.5})

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|---|-------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters, (PM ₁₀) | µg/m ³ | 87.5 | For 24 Hrs.=100 | IS-5182 (Part-23) |
| 2 | Particulate Matters, (PM _{2.5}) | µg/m ³ | 43.8 | For 24 Hrs.=60 | ETS/STP/AIR-03 |
| 3 | Sulphur Dioxide, (SO ₂) | µg/m ³ | 14.9 | For 24 Hrs.=80 | IS-5182 (Part-2) |
| 4 | Nitrogen Dioxide, (NO ₂) | µg/m ³ | 30.4 | For 24 Hrs.=80 | IS-5182 (Part-6) |

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

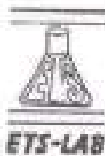
For Enviro-Tech Services

Md Humraj
Quality Manager
AUTHORIZED SIGNATORY

Formal No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2015, Amd. No. 04 Date 01.04.2019

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after 15 days from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to service value only.
5. Head Office : G-232, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201015



ENVIRO-TECH SERVICES

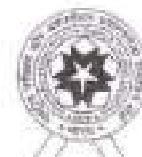
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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



NABL Accredited Lab.
Cert. No. TG-4771

TEST REPORT

TEST REPORT NO.: ETS/253/09/2020

URL:NOTG8771620005001102F

DATE OF REPORT: 22.09.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s, J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020
Analysis Start Date : 18.09.2020
Analysis End Date : 22.09.2020
Duration Of Monitoring : 17.09.2020 To 18.09.2020
Time Of Monitoring : 10:30 AM To 10:15 AM
Sample ID No : 253/09
Sampling Done By : ETS STAFF
Sampling Location : PLANT BOUNDARY TOWARDS SOUTH DIRECTION
(NEAR CCR BUILDING)
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLEAR Ambient Temperature: 34.0 °C
Wind Direction : E To W
Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|---|-------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters, (PM ₁₀) | µg/m ³ | 92.9 | For 24 Hrs. =100 | IS 5182 (Part-23) |
| 2 | Particulate Matters, (PM _{2.5}) | µg/m ³ | 43.5 | For 24 Hrs. =60 | ETS/STP/AIR-03 |
| 3 | Sulphur Dioxide, (SO ₂) | µg/m ³ | 14.2 | For 24 Hrs. =80 | IS: 5182 (Part-2) |
| 4 | Nitrogen Dioxide, (NO ₂) | µg/m ³ | 38.4 | For 24 Hrs. =80 | IS: 5182 (Part-6) |

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



Page 1 of 1

For Enviro-Tech Services

Md Humra

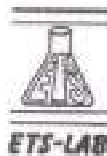
Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

Note:-

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3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-232, M.G. Road Industrial Area, Hapur (Ghaziabad) (U.P.) 201015



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Plot No. 1/32, South Side G.T. Road Industrial Area, Ghaziabad (U.P.)-201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9911738063



TEST REPORT

TEST REPORT NO.: ETS/254/09/2020

URL:NOTC8771020000001103P

DATE OF REPORT: 22.09.2020

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020

Analysis Start Date : 16.09.2020

Analysis End Date : 22.09.2020

Duration Of Monitoring : 17.09.2020 To 17.09.2020 6 HOURS, TWA

Time Of Monitoring : 11:00 AM To 06:55 PM

Sample ID No : 254/09

Sampling Done By : ETS STAFF

Sampling Location : UNLOADING AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 34.0 °C

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factory Act.) | Test Method |
|--------|--------------------|-------------------|--------|---|-------------------|
| 1 | Fugitive Emission* | µg/m ³ | 1687.0 | 2000 As per CPCB | IS: 5182 (Part-4) |

Remarks: Star (*) marked not cover in NABL scope.

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

Page 1 of 1

For Enviro-Tech Services



Format No ETS/LAB/IR-04, Issue No: 05, Date 01.04.2019, Amend. No: 04 Date 01.04.2019

Md Humraj
Quality Manager
AUTHORIZED SIGNATORY

Notes:-

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4. Our liability is limited to invoice value only.
5. Head Office: G-232, M.G. Road Industrial Area, Bagpur-Ghaziabad (U.P.) 201015



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

TEST REPORT NO.: ETS/255/09/2020

URL: NOTG8771020200001104P

DATE OF REPORT: 22.09.2020

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s, J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020
Analysis Start Date : 18.09.2020
Analysis End Date : 22.09.2020
Duration Of Monitoring : 17.09.2020 To 17.09.2020 8 HOURS, TWA
Time Of Monitoring : 11:00 AM To 06:55 PM
Sample ID No : 255/09
Sampling Done By : ETS STAFF
Sampling Location : FLY ASH SILO AREA
Sampling Method : ETS/STPIAIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLEAR Ambient Temperature: 34.0 °C

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factory Act.) | Test Method |
|--------|--------------------|-------------------|--------|---|-------------------|
| 1 | Fugitive Emission* | µg/m ³ | 1823.0 | 2000 As per CPCB | IS: 5182 (Part-4) |

Remark:- Star (*) marked not cover in NABL scope.

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

Page 1 of 1

FOR ENVIRO-TECH SERVICES

For Enviro-Tech Services

Md Humraj

Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/IR-04, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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5. Head Office : G-232, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201015



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

TEST REPORT NO.: ETS/256/09/2020

URL:NOTICE/71020000001105P

DATE OF REPORT: 22.09.2020

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020
Analysis Start Date : 18.09.2020
Analysis End Date : 22.09.2020
Duration Of Monitoring : 17.09.2020 To 17.09.2020 8 HOURS, TWA
Time Of Monitoring : 11:10 AM To 07:00 PM
Sample ID No : 256/09
Sampling Done By : ETS STAFF
Sampling Location : PACKING AREA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLEAR Ambient Temperature: 34.0 °C

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factory Act.) | Test Method |
|--------|--------------------|-------------------|--------|---|-------------------|
| 1 | Fugitive Emission* | µg/m ³ | 1715 | 2000 As per CPCB | IS: 5182 (Part-4) |

Remark:- Star (*) marked not cover in NABL scope.

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

Page 1 of 1

For Enviro-Tech Services



FOR ENVIRO-TECH SERVICES

Md Humraj

Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-04, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

Notes:-

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3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-232, M.G. Road Industrial Area, Nagpur-Ghaziabad (U.P.) 201005



ETS-LAB

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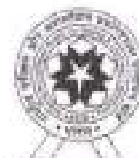
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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

NABL Accredited Lab
Cert. No. PC-8771

TEST REPORT

TEST REPORT NO.: ETS/257/09/2020

URL:NOTC8771020600001108P

DATE OF REPORT: 22.08.2020

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020

Analysis Start Date : 18.09.2020

Analysis End Date : 22.09.2020

Duration Of Monitoring : 17.09.2020 To 17.09.2020 8 HOURS, TWA

Time Of Monitoring : 11:10 AM To 07:00 PM

Sample ID No : 257/09

Sampling Done By : ETS STAFF

Sampling Location : CEMENT MILL AREA

Sampling Method : ETS-STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 34.0 °C

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factory Act.) | Test Method |
|--------|--------------------|-------------------|--------|---|-------------------|
| 1 | Fugitive Emission* | µg/m ³ | 1685 | 2000 As per CPCB | IS: 5182 (Part-4) |

Remark:- Star (*) marked not cover in NABL scope.

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

Md Humraj

Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-04, Issue No. 03, Date 01.04.2019, Amend No. 04 Date 07.04.2019

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after 15 days from the date of test report issued.
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4. Our liability is limited to invoice value only.
5. Head Office : G-232, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201015

J.K. Cement Works, Aligarh
Fugitive Emission Monitoring Report
July '2020 - September '2020

| S.No. | Month/Year | SPM (mg/m ³) | | | |
|-------|------------|--------------------------|------------------|------------------|-------------------|
| | | NEAR UNLOADING AREA | NEAR CEMENT MILL | NEAR FLYASH SILO | NEAR PACKING AREA |
| 1 | Jul-20 | 1.4 | 1.9 | 1.6 | 0.9 |
| 2 | Aug-20 | 1.7 | 1.7 | 1.6 | 1.0 |
| 3 | Sep-20 | 1.4 | 1.5 | 1.4 | 0.9 |

Prakash



Prakash

J.K. CEMENT WORKS, ALGARH
Village: Sadga, Taluk: Nalk, District: Aligarh (U.P.)

PARTICULATE MATTER EMISSION MONITORING REPORT OF CEMENT MILL (STACK EMISSION)

| MONTH : Aug-20 | | | | | | | | | |
|-----------------------|---------------|---|--------------------------|----------------------------|----------------------------|--------------------------------|---------------------------------|---|---------------------|
| Date | Name of Stack | Gross Sectional Area of duct (in M ²) | Stack Gas Temp. (in °K.) | Gas Velocity (in M / Sec.) | Flow of gases (in MM/Sec.) | Duration of sampling (in min.) | Dust Conc. (mg/m ³) | Mean Dust Conc. (in mg/m ³) | Emission (in T/day) |
| 7.8.2020 | CEMENT MILL | 4.37 | 372 | 10.13 | 35.46 | 30.00 | 10.0 | 8.1 | 0.031 |
| 7.9.2020 | | 4.37 | 371 | 10.16 | 35.37 | 30.00 | 7.4 | | 0.023 |
| 7.10.2020 | | 4.37 | 372 | 10.25 | 35.89 | 30.00 | 9.8 | | 0.030 |
| 7.12.2020 | | 4.37 | 371 | 10.19 | 35.27 | 30.00 | 9.3 | | 0.029 |

| MONTH : Aug-20 | | | | | | | | | |
|-----------------------|---------------|---|--------------------------|----------------------------|----------------------------|--------------------------------|---------------------------------|---|---------------------|
| Date | Name of Stack | Gross Sectional Area of duct (in M ²) | Stack Gas Temp. (in °K.) | Gas Velocity (in M / Sec.) | Flow of gases (in MM/Sec.) | Duration of sampling (in min.) | Dust Conc. (mg/m ³) | Mean Dust Conc. (in mg/m ³) | Emission (in T/day) |
| 8.8.2020 | CEMENT MILL | 4.37 | 375 | 9.05 | 35.26 | 30.00 | 11.1 | 10.6 | 0.033 |
| 8.11.2020 | | 4.37 | 379 | 9.00 | 34.91 | 30.00 | 8.3 | | 0.028 |
| 8.18.2020 | | 4.37 | 379 | 9.23 | 35.62 | 30.00 | 8.8 | | 0.030 |
| 8.25.2020 | | 4.37 | 375 | 9.66 | 34.36 | 30.00 | 12.0 | | 0.036 |

| MONTH : Aug-20 | | | | | | | | | |
|-----------------------|---------------|---|--------------------------|----------------------------|----------------------------|--------------------------------|---------------------------------|---|---------------------|
| Date | Name of Stack | Gross Sectional Area of duct (in M ²) | Stack Gas Temp. (in °K.) | Gas Velocity (in M / Sec.) | Flow of gases (in MM/Sec.) | Duration of sampling (in min.) | Dust Conc. (mg/m ³) | Mean Dust Conc. (in mg/m ³) | Emission (in T/day) |
| 9.8.2020 | CEMENT MILL | 4.37 | 374 | 10.09 | 35.13 | 30.00 | 10.0 | 10.9 | 0.030 |
| 9.11.2020 | | 4.37 | 373 | 9.90 | 34.97 | 30.00 | 8.6 | | 0.026 |
| 9.18.2020 | | 4.37 | 373 | 10.05 | 35.35 | 30.00 | 11.7 | | 0.036 |
| 9.25.2020 | | 4.37 | 373 | 9.93 | 34.67 | 30.00 | 9.7 | | 0.029 |

Monitored By *P. Subash*

Checked by *P. Subash*



J.K. Cement Works, ALIGARH (UP)
AMBIENT AIR QUALITY AVERAGE SPM RESULTS
 (ALL VALUES IN MICROGRAMS / CUBIC METER)

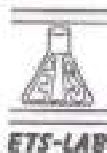
02 nd QUARTER REPORT (July-September 2020)

| S.No. | LOCATION | Month | PM10 | PM2.5 | SO2 | NOx |
|-------------------|-------------------------------|--------|-------|-------|-------|-------|
| | | | | | | |
| 1 | PLANT BOUNDARY | Jul-20 | 54.08 | 31.55 | 10.04 | 20.70 |
| 2 | TOWARDS EAST | Aug-20 | 55.40 | 35.50 | 14.65 | 21.90 |
| 3 | DIRECTION | Sep-20 | 53.88 | 37.91 | 14.29 | 21.96 |
| Quarterly Average | | | 54.45 | 34.99 | 12.99 | 21.52 |
| 1 | PLANT BOUNDARY | Jul-20 | 53.16 | 35.07 | 9.17 | 21.02 |
| 2 | TOWARDS WEST | Aug-20 | 56.89 | 34.79 | 12.88 | 20.74 |
| 3 | (PROJECT OFFICE) | Sep-20 | 54.52 | 32.73 | 14.03 | 21.20 |
| Quarterly Average | | | 54.86 | 34.29 | 12.03 | 20.98 |
| 1 | PLANT BOUNDARY | Jul-20 | 56.14 | 38.62 | 10.44 | 21.01 |
| 2 | TOWARDS NORTH | Aug-20 | 55.71 | 32.74 | 12.63 | 21.68 |
| 3 | DIRECTION | Sep-20 | 52.75 | 35.72 | 13.89 | 21.35 |
| Quarterly Average | | | 54.87 | 35.69 | 12.32 | 21.35 |
| 1 | PLANT BOUNDARY | Jul-20 | 54.24 | 37.87 | 13.48 | 21.02 |
| 2 | TOWARDS SOUTH | Aug-20 | 57.65 | 36.77 | 14.25 | 21.14 |
| 3 | DIRECTION (NEAR CCR BUILDING) | Sep-20 | 56.62 | 35.74 | 13.68 | 22.00 |
| Quarterly Average | | | 56.17 | 36.79 | 13.80 | 21.39 |

Subtotal



Spam



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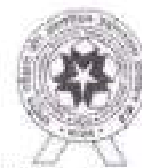
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email : etslab2012@gmail.com | Website : www.etslab.in | Ph : 9911516076, 9811736063



NABL Accredited Lab,
Cert. No. TC-8771

TEST REPORT

TEST REPORT NO: ETS/293/06/2020

URL:NOTC8771020000000085F

DATE OF REPORT:

24.06.2020

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date Of Sampling : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Sampling : 60.0 MIN

Sample ID No. : 293/06

Sampling Done By : ETS STAFF

Sampling Method : ETS/STP/STACK-01

Stack Attached To : CEMENT MILL

Capacity Of Stack : 250.0 TPH

Quantity Of Fuel Used : ———

Type Of Fuel Used : ———

Stack Height Above Ground : 43.0 MTR.

Stack Dia At The Top : 2360.0 MM

Material Of Construction : M.S.

Attached APCS : ———

Normal Operating Schedule : NORMAL

Ambient Temperature : 42.0 °C

Flue Gas Temperature : 45.0 °C

Velocity Of Flue Gases : 6.1 MTR./SEC.

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|--------------------------|--------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters,(PM) | mg/Nm ³ | 15.0 | 30 | IS-11255 (Part-1) |

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



Page 1 of 1

For Enviro-Tech Services

Md Humra

Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-05, Issue No: 05, Date 01/04/2019, Amend No: 04 Date 01/04/2019

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
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3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-232, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201015



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Cert. No. TC-4771

TEST REPORT

TEST REPORT NO.: ETS/277/06/2020

URL:NOTC87710200000003E9F

DATE OF REPORT:

24.06.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Monitoring : 18.06.2020 To 19.06.2020

Time Of Monitoring : 10:30 AM To 10:25 AM

Sample ID No : 277/06

Sampling Done By : ETS STAFF

Sampling Location : PLANT BOUNDARY TOWARDS EAST DIRECTION

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 42.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|---|-------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters, (PM ₁₀) | µg/m ³ | 81.3 | For 24 Hrs. = 100 | IS 5182 (Part-23) |
| 2 | Particulate Matters, (PM _{2.5}) | µg/m ³ | 35.8 | For 24 Hrs. = 60 | ETS/STP/AIR-03 |
| 3 | Sulphur Dioxide, (SO ₂) | µg/m ³ | 14.5 | For 24 Hrs. = 80 | IS: 5182 (Part-2) |
| 4 | Nitrogen Dioxide, (NO ₂) | µg/m ³ | 27.1 | For 24 Hrs. = 80 | IS: 5182 (Part-6) |

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



Page 1 of 1

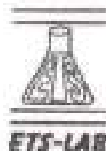
For Enviro-Tech Services

Md Humraj
Quality Manager
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2018, Amd. No. 04 Date 01.04.2019

Note:-

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3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-332, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201013



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811738063



NABL Accredited Lab
Cert. No. TC-6771

TEST REPORT

TEST REPORT NO.: ETS/278/06/2020

URL: NOT06771020000000370F

DATE OF REPORT:

24.06.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Monitoring : 18.06.2020 To 19.06.2020

Time Of Monitoring : 10:30 AM To 10:25 AM

Sample ID No : 278/06

Sampling Done By : ETS STAFF

Sampling Location : PLANT BOUNDARY TOWARDS NORTH DIRECTION

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 42.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|---|-------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters, (PM ₁₀) | µg/m ³ | 75.8 | For 24 Hrs.=100 | IS 5182 (Part-23) |
| 2 | Particulate Matters, (PM _{2.5}) | µg/m ³ | 32.8 | For 24 Hrs.=60 | ETS/STP/AIR-03 |
| 3 | Sulphur Dioxide, (SO ₂) | µg/m ³ | 12.3 | For 24 Hrs.=80 | IS: 5182 (Part-2) |
| 4 | Nitrogen Dioxide, (NO ₂) | µg/m ³ | 25.7 | For 24 Hrs.=80 | IS: 5182 (Part-6) |

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

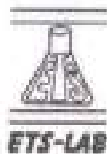
Md Humraj
Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

Notes-

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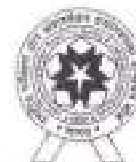
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Cert. No. TC-8771

TEST REPORT

TEST REPORT NO.: ETS/279/06/2020

URL: NOTC8771020000000371F

DATE OF REPORT:

24.08.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Monitoring : 18.06.2020 To 19.06.2020

Time Of Monitoring : 10:30 AM To 10:15 AM

Sample ID No : 279/06

Sampling Done By : ETS STAFF

Sampling Location : PLANT BOUNDARY TOWARDS WEST DIRECTION
(PROJECT OFFICE)

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 42.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|--|-------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters.(PM ₁₀) | µg/m ³ | 83.5 | For 24 Hrs.=100 | IS 5182 (Part-23) |
| 2 | Particulate Matters.(PM _{2.5}) | µg/m ³ | 38.2 | For 24 Hrs.=60 | ETS/STP/AIR-03 |
| 3 | Sulphur Dioxide, (SO ₂) | µg/m ³ | 18.0 | For 24 Hrs.=80 | IS: 5182 (Part-2) |
| 4 | Nitrogen Dioxide,(NO ₂) | µg/m ³ | 30.4 | For 24 Hrs.=80 | IS: 5182 (Part-6) |

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



FOR ENVIRO-TECH SERVICES

CHECKED BY

Page 1 of 1

For Enviro-Tech Services

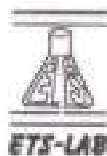
Md Humrai
Quality Manager

AUTHORIZED SIGNATORY

Formal No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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Cert. No. TC-6771

TEST REPORT

TEST REPORT NO.: ETS/280/06/2020

URL:NOTC8771020000000372F

DATE OF REPORT:

24.06.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Monitoring : 18.06.2020 To 19.06.2020

Time Of Monitoring : 10:30 AM To 10:15 AM

Sample ID No : 280/06

Sampling Done By : ETS STAFF

Sampling Location : PLANT BOUNDARY TOWARDS SOUTH DIRECTION
(NEAR CCR BUILDING)

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 42.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|--|-------------------|--------|-----------------------------------|-------------------|
| 1 | Particulate Matters (PM ₁₀) | µg/m ³ | 89.1 | For 24 Hrs.=100 | IS 5182 (Part-23) |
| 2 | Particulate Matters (PM _{2.5}) | µg/m ³ | 43.5 | For 24 Hrs.=60 | ETS/STP/AIR-03 |
| 3 | Sulphur Dioxide (SO ₂) | µg/m ³ | 22.9 | For 24 Hrs.=60 | IS: 5182 (Part-2) |
| 4 | Nitrogen Dioxide (NO ₂) | µg/m ³ | 37.4 | For 24 Hrs.=60 | IS: 5182 (Part-6) |

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



Page 1 of 1

For Enviro-Tech Services

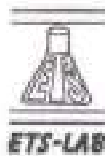
Md Humraj
Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

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Cert. No. TC-6771

TEST REPORT

TEST REPORT NO.: ETS/281/06/2020

URL: NOTCB771020000000373P

DATE OF REPORT:

24.06.2020

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Monitoring : 18.06.2020 To 18.06.2020 8 HOURS, TWA

Time Of Monitoring : 11:00 AM To 06:55 PM

Sample ID No : 281/06

Sampling Done By : ETS STAFF

Sampling Location : UNLOADING AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 42.0 °C

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factory Act.) | Test Method |
|--------|--------------------|-------------------|--------|---|-------------------|
| 1 | Fugitive Emission* | µg/m ³ | 1680 | 2000 As per CPCB | IS: 5182 (Part-4) |

Remark:- Star (*) marked not cover in NABL scope. N.D-Not Detectable

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



ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

Md Humraj
Quality Manager
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-04, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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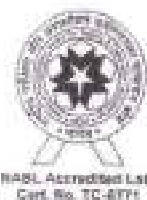
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TEST REPORT

TEST REPORT NO.: ETS/282/06/2020

URL:NOTC8711020000000374P

DATE OF REPORT:

24.06.2020

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Monitoring : 18.06.2020 To 18.06.2020 8 HOURS, TWA

Time Of Monitoring : 11:00 AM To 06:55 PM

Sample ID No : 282/06

Sampling Done By : ETS STAFF

Sampling Location : FLY ASH SILO AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 42.0 °C

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factory Act.) | Test Method |
|--------|--------------------|-------------------|--------|---|-------------------|
| 1 | Fugitive Emission* | µg/m ³ | 1600 | 2000 As per CPCB | IS- 5182 (Part-4) |

Remarks: Star (*) marked not cover in NABL scope.

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

Page 1 of 1

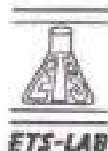
For Enviro-Tech Services

Md Humra
Quality Manager
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-04, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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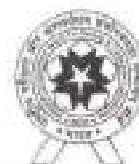
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TEST REPORT

TEST REPORT NO.: ETS/283/06/2020

URL:NOTC8771020000000375P

DATE OF REPORT:

24.06.2020

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Monitoring : 18.06.2020 To 18.06.2020 8 HOURS, TWA

Time Of Monitoring : 11:10 AM To 07:00 PM

Sample ID No : 283/06

Sampling Done By : ETS STAFF

Sampling Location : PACKING AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 42.0 °C

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factory Act.) | Test Method |
|--------|--------------------|-------------------|--------|---|-------------------|
| 1 | Fugitive Emission* | µg/m ³ | 1700 | 2000 As per CPCB | IS: 5182 (Part-4) |

Remark:- Star (*) marked not cover in NABL scope.

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



Page 1 of 1

For Enviro-Tech Services

Md Humra
Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-04, Issue No. 05, Date 01.04.2019, Amend No. 04 Date 01.04.2019

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph: 9911516076, 9811736063



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Cert. No. TC-6771

TEST REPORT

TEST REPORT NO.: ETS/284/06/2020

URL: NOTCB771020000000376P

DATE OF REPORT:

24.06.2020

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Analysis Start Date : 20.06.2020

Analysis End Date : 22.06.2020

Duration Of Monitoring : 18.06.2020 To 18.06.2020 8 HOURS, TWA

Time Of Monitoring : 11:10 AM To 07:00 PM

Sample ID No : 284/06

Sampling Done By : ETS STAFF

Sampling Location : CEMENT MILL AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 42.0 °C

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factory Act.) | Test Method |
|--------|--------------------|-------------------|--------|---|-------------------|
| 1 | Fugitive Emission* | µg/m ³ | 1625 | 2000 As per CPCB | IS: 5182 (Part-4) |

Remark: Star (*) marked not cover in NABL scope.

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

Md Humraj
Quality Manager

AUTHORIZED SIGNATORY

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J.K. Cement Works, Aligarh
Fugitive Emission Monitoring Report
April '2020 - June '2020

| S.No. | Month/Year | SPM (mg/m ³) | | | |
|-------|------------|--------------------------|------------------|------------------|-------------------|
| | | NEAR UNLOADING AREA | NEAR CEMENT MILL | NEAR FLYASH SILO | NEAR PACKING AREA |
| 1 | Apr-20 | 1.4 | 1.9 | 1.6 | 0.9 |
| 2 | May-20 | 1.7 | 1.7 | 1.6 | 1.0 |
| 3 | Jun-20 | 1.4 | 1.5 | 1.4 | 0.9 |



-Dehadeaut
 Monitored By: -

spawny
 Checked By

J.K.CEMENT WORKS ALIGARH,
Village: Surda, Tehsil: Khat, District: Aligarh (U.P.)

PARTICULATE MATTER EMISSION MONITORING REPORT OF CEMENT MILL (STACK EMISSION)

MONTH : April-20

| Date | Name of Stack | Gross Sectional Area of duct (in M ²) | Stack Gases Temp. (in °K) | Gas Velocity (in M / Sec.) | Flow of gases (in M ³ /Sec.) | Duration of sampling (in Min.) | Dust Conc. (Mg/M ³) | Mean Dust Conc./in (Mg/M ³) | Emission (in T/Day) | Remarks |
|------------|---------------|---|---------------------------|----------------------------|---|--------------------------------|---------------------------------|---|---------------------|---------|
| 28.04.2020 | CEMENT MILL | 4.37 | 371 | 10.19 | 25.72 | 20.00 | 11.0 | 10.5 | 0.074 | |
| 29.04.2020 | | 4.37 | 373 | 10.35 | 26.17 | 20.00 | 9.6 | | 0.020 | |
| 30.04.2020 | | | | | | | | | | |

ML: Stopped due to lockdown

MONTH : May-20

| Date | Name of Stack | Gross Sectional Area of duct (in M ²) | Stack Gases Temp. (in °K) | Gas Velocity (in M / Sec.) | Flow of gases (in M ³ /Sec.) | Duration of sampling (in Min.) | Dust Conc. (Mg/M ³) | Mean Dust Conc./in (Mg/M ³) | Emission (in T/Day) | Remarks |
|------------|---------------|---|---------------------------|----------------------------|---|--------------------------------|---------------------------------|---|---------------------|---------|
| 04.05.2020 | CEMENT MILL | 4.37 | 371 | 8.90 | 14.75 | 15.00 | 9.6 | 12.5 | 0.029 | |
| 11.05.2020 | | 4.37 | 375 | 10.13 | 15.44 | 20.00 | 17.8 | | 0.054 | |
| 18.05.2020 | | 4.37 | 376 | 10.06 | 15.13 | 20.00 | 8.0 | | 0.024 | |
| 26.05.2020 | | 4.37 | 375 | 10.10 | 15.07 | 20.00 | 14.5 | | 0.044 | |

MONTH : Jun-20

| Date | Name of Stack | Gross Sectional Area of duct (in M ²) | Stack Gases Temp. (in °K) | Gas Velocity (in M / Sec.) | Flow of gases (in M ³ /Sec.) | Duration of sampling (in Min.) | Dust Conc. (Mg/M ³) | Mean Dust Conc./in (Mg/M ³) | Emission (in T/Day) | Remarks |
|------------|---------------|---|---------------------------|----------------------------|---|--------------------------------|---------------------------------|---|---------------------|---------|
| 01.06.2020 | CEMENT MILL | 4.37 | 378 | 10.16 | 15.38 | 20.00 | 15.6 | 13.4 | 0.042 | |
| 11.06.2020 | | 4.37 | 372 | 10.21 | 15.24 | 20.00 | 16.4 | | 0.051 | |
| 20.06.2020 | | 4.37 | 371 | 10.26 | 15.01 | 20.00 | 7.8 | | 0.024 | |
| 28.06.2020 | | 4.37 | 371 | 10.08 | 15.19 | 20.00 | 12.4 | | 0.048 | |

Monitored by *[Signature]*

Checked by *[Signature]*



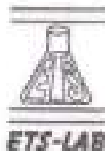
J.K. Cement Works, ALIGARH (UP)
AMBIENT AIR QUALITY AVERAGE SPM RESULTS
 (ALL VALUES IN MICROGRAMS / CUBIC METER)
1ST QUARTER REPORT (APRIL-JUNE 2020)

| S.No. | LOCATION | Month | | | | |
|-------------------|--|--------|-------|-------|-------|-------|
| | | | PM10 | PM2.5 | SO2 | NOx |
| 1 | PLANT BOUNDARY TOWARDS EAST DIRECTION | Apr-20 | 65.17 | 44.74 | 15.28 | 21.61 |
| 2 | | May-20 | 70.38 | 48.18 | 15.18 | 23.31 |
| 3 | | Jun-20 | 64.95 | 46.76 | 15.83 | 18.34 |
| Quarterly Average | | | 66.83 | 46.56 | 15.43 | 21.09 |
| 1 | PLANT BOUNDARY TOWARDS WEST DIRECTION (PROJECT OFFICE) | Apr-20 | 66.70 | 46.76 | 14.70 | 22.84 |
| 2 | | May-20 | 62.58 | 53.03 | 15.84 | 21.68 |
| 3 | | Jun-20 | 73.45 | 53.94 | 16.62 | 20.86 |
| Quarterly Average | | | 67.57 | 51.24 | 15.72 | 21.80 |
| 1 | PLANT BOUNDARY TOWARDS NORTH DIRECTION | Apr-20 | 59.62 | 40.55 | 15.31 | 20.21 |
| 2 | | May-20 | 59.73 | 43.42 | 15.59 | 18.80 |
| 3 | | Jun-20 | 63.65 | 44.98 | 15.02 | 19.42 |
| Quarterly Average | | | 61.00 | 42.98 | 15.31 | 19.47 |
| 1 | PLANT BOUNDARY TOWARDS SOUTH DIRECTION (NEAR CCR BUILDING) | Apr-20 | 54.02 | 39.21 | 14.83 | 21.68 |
| 2 | | May-20 | 60.78 | 44.56 | 16.37 | 20.83 |
| 3 | | Jun-20 | 59.18 | 38.94 | 15.70 | 18.26 |
| Quarterly Average | | | 57.99 | 40.90 | 15.63 | 20.26 |

Atchannand
 Monitored By-



Aravind
 Checked By-



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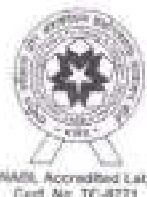
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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

TEST REPORT NO.: ETS/295-1/05/2020

DATE OF REPORT:

27.05.2021

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL-KOIL, DISTRICT-ALIGARH, U.P.

Date of Sampling : 22.05.2020

Analysis Start Date : 24.05.2020

Analysis End Date : 27.05.2020

Sample ID No : 295-1/05

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : BOREWELL NO-01

Sampling Method : ETS/STP/WATER-02

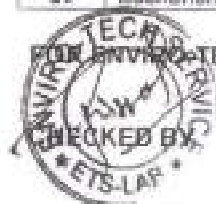
Sample Quantity : 2.0 + 0.5 Ltr

Packing Condition : SEALED

Packed In : P.V.C. AND GLASS BOTTLE

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per IS:10500: 2012) | | Test Method |
|--------|---------------------------------------|-----------|-----------|---|---------------|--------------------------------|
| | | | | Desirable | Permissible | |
| 1 | Colour | Hazen | < 5.0 | 5 | 15 | APHA 2120-B |
| 2 | Odour | --- | Agreeable | Agreeable | Agreeable | APHA 2150-B |
| 3 | Taste | --- | Agreeable | Agreeable | Agreeable | APHA 2180-C |
| 4 | pH | --- | 7.23 | 6.5 - 8.5 | No Relaxation | APHA 4500-H+ |
| 5 | Turbidity | NTU | <5.0 | 1 | 5 | APHA 2130-B |
| 6 | Total Dissolved Solids.(TDS) | mg/L | 618.1 | 500 | 2000 | APHA 2540-C |
| 7 | Chlorine (Residual) | mg/L | <0.2 | 0.2 | 1 | APHA 4500-(Cl)-B |
| 8 | Fluoride (F) | mg/L | 0.80 | 1 | 1.5 | APHA 4500-(F)-D |
| 9 | Chloride (Cl) | mg/L | 35.0 | 250 | 1000 | APHA 4500-(Cl)-B |
| 10 | Iron (Fe) | mg/L | 0.14 | 0.3 | No Relaxation | APHA-3120B |
| 11 | Sulphate (SO ₄) | mg/L | 63.9 | 200 | 400 | APHA 4500-(SO ₄)-E |
| 12 | Total Alkalinity (CaCO ₃) | mg/L | 95.0 | 200 | 800 | APHA 2320-B |
| 13 | Total Hardness (CaCO ₃) | mg/L | 200.0 | 200 | 600 | APHA 2340-C |
| 14 | Magnesium (Mg) | mg/L | 21.0 | 30 | 100 | APHA 3500-(Mg)-B |
| 15 | Nitrate (NO ₃) | mg/L | 2.33 | 45 | No Relaxation | APHA 4500-(NO ₃)-B |
| 16 | Conductivity | µs/cm | 895.0 | Not Specified | Not Specified | APHA 2510-B |
| 17 | Calcium (Ca) | mg/L | 45.0 | 75 | 200 | APHA 3500-(Ca)-B |
| 18 | Oil & Grease, (O & G) | mg/L | N.D | Not Specified | Not Specified | APHA 5520-D |
| 19 | Total Coliform | MPN/100mL | Absent | Shall Not Be Detectable | | IS 1622 |
| 20 | Escherichia coli | MPN/100mL | Absent | Shall Not Be Detectable | | IS 1622 |

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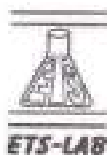
AUTHORIZED SIGNATORY

Quality Manager

Formal No ETS/LAB/ITR-09, Issue No. 06, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/295-2/05/2020

DATE OF REPORT: 27.05.2021

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Sampling : 22.05.2020

Analysis Start Date : 24.05.2020

Analysis End Date : 27.05.2020

Sample ID No : 295-2/05

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : BOREWELL NO-02

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 + 0.5 Ltr

Packing Condition : SEALED

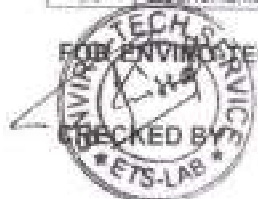
Packed In : P.V.C. AND GLASS BOTTLE

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per IS:10500: 2012) | | Test Method |
|--------|---------------------------------------|-----------|-----------|---|---------------|--------------------------------|
| | | | | Desirable | Permissible | |
| 1 | Colour | Hazen | < 5.0 | 5 | 15 | APHA 2120-B |
| 2 | Odour | | Agreeable | Agreeable | Agreeable | APHA 2150-B |
| 3 | Taste | | Agreeable | Agreeable | Agreeable | APHA 2160-C |
| 4 | pH | | 7.19 | 6.5 - 8.5 | No Relaxation | APHA 4500-H+ |
| 5 | Turbidity | NTU | <5.0 | 1 | 5 | APHA 2130-B |
| 6 | Total Dissolved Solids (TDS) | mg/L | 546.7 | 500 | 2000 | APHA 2540-C |
| 7 | Chlorine (Residual) | mg/L | <0.2 | 0.2 | 1 | APHA 4500-(Cl)-B |
| 8 | Fluoride (F) | mg/L | 0.88 | 1 | 1.5 | APHA 4500-(F)-D |
| 9 | Chloride (Cl) | mg/L | 25.0 | 250 | 1000 | APHA 4500-(Cl)-B |
| 10 | Iron (Fe) | mg/L | 0.13 | 0.3 | No Relaxation | APHA-3120B |
| 11 | Sulphate (SO ₄) | mg/L | 46.0 | 200 | 400 | APHA 4500-(SO ₄)-E |
| 12 | Total Alkalinity (CaCO ₃) | mg/L | 85.0 | 200 | 600 | APHA 2320-B |
| 13 | Total Hardness (CaCO ₃) | mg/L | 180.0 | 200 | 600 | APHA 2340-C |
| 14 | Magnesium (Mg) | mg/L | 19.2 | 30 | 100 | APHA 3500-(Mg)-B |
| 15 | Nitrate (NO ₃) | mg/L | 2.21 | 45 | No Relaxation | APHA 4500-(NO ₃)-B |
| 16 | Conductivity | µs/cm | 791.0 | Not Specified | Not Specified | APHA 2510-B |
| 17 | Calcium (Ca) | mg/L | 40.0 | 75 | 200 | APHA 3500-(Ca)-B |
| 18 | Oil & Grease (O & G) | mg/L | N.D | Not Specified | Not Specified | APHA 5520-D |
| 19 | Total Coliform | MPN/100mL | Absent | Shall Not Be Detectable | | IS 1622 |
| 20 | Escherichia coli | MPN/100mL | Absent | Shall Not Be Detectable | | IS 1622 |

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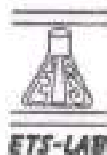


Md Humra
Quality Manager
AUTHORIZED SIGNATORY

Format No ETS/LAB/IR-05, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

Notes:-

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TEST REPORT

TEST REPORT NO.: ETS/295-3/05/2020

DATE OF REPORT: 27.05.2021

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Sampling : 22.05.2020

Analysis Start Date : 24.05.2020

Analysis End Date : 27.05.2020

Sample ID No : 295-3/05

Sampling Done By : ETS STAFF

Sampling Description : DRINKING WATER

Sampling Location : SATHA VILLAGE, HAND PUMP

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 + 0.5 Ltr

Packing Condition : SEALED

Packed In : P.V.C. AND GLASS BOTTLE

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per IS:10500: 2012) | | Test Method |
|--------|---------------------------------------|-----------|-----------|---|---------------|--------------------------------|
| | | | | Desirable | Permissible | |
| 1 | Colour | Hazen | < 5.0 | 5 | 15 | APHA 2120-B |
| 2 | Odour | ... | Agreeable | Agreeable | Agreeable | APHA 2150-B |
| 3 | Taste | ... | Agreeable | Agreeable | Agreeable | APHA 2180-C |
| 4 | pH | ... | 7.40 | 6.5 - 8.5 | No Relaxation | APHA 4500-H+ |
| 5 | Turbidity | NTU | <5.0 | 1 | 5 | APHA 2130-B |
| 6 | Total Dissolved Solids (TDS) | mg/L | 527.2 | 500 | 2000 | APHA 2540-C |
| 7 | Chlorine (Residual) | mg/L | <0.2 | 0.2 | 1 | APHA 4500 (Cl)-B |
| 8 | Fluoride (F) | mg/L | 0.58 | 1 | 1.5 | APHA 4500 (F)-D |
| 9 | Chloride (Cl) | mg/L | 35.0 | 250 | 1000 | APHA 4500 (Cl)-B |
| 10 | Iron (Fe) | mg/L | 0.14 | 0.3 | No Relaxation | APHA-3120B |
| 11 | Sulphate (SO ₄) | mg/L | 28.0 | 200 | 400 | APHA 4500 (SO ₄)-E |
| 12 | Total Alkalinity (CaCO ₃) | mg/L | 205.0 | 200 | 500 | APHA 2320-B |
| 13 | Total Hardness (CaCO ₃) | mg/L | 220.0 | 200 | 500 | APHA 2340-C |
| 14 | Magnesium (Mg) | mg/L | 27.8 | 30 | 100 | APHA 3500 (Mg)-B |
| 15 | Nitrate (NO ₃) | mg/L | 2.85 | 45 | No Relaxation | APHA 4500 (NO ₃)-B |
| 16 | Conductivity | µs/cm | 763.0 | Not Specified | Not Specified | APHA 2510-B |
| 17 | Calcium (Ca) | mg/L | 42.0 | 75 | 200 | APHA 3500 (Ca)-B |
| 18 | Oil & Grease (O & G) | mg/L | N.D | Not Specified | Not Specified | APHA 5520-D |
| 19 | Total Coliform | MPN/100mL | Absent | Shall Not Be Detectable | | IS 1622 |
| 20 | Escherichia coli | MPN/100mL | Absent | Shall Not Be Detectable | | IS 1622 |

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Md Humra
Quality Manager
AUTHORIZED SIGNATORY

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NABL Accredited Lab
Cert. No. TC-8771

TEST REPORT

TEST REPORT NO. ETS/285/08/2020 URL: NOTC8771020000000377F DATE OF REPORT: 24.06.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Monitoring Start Date : 18.06.2020

Monitoring End Date : 19.06.2020

Duration Of Monitoring : 24 HOURS

Sample ID No : 285/08

Monitoring Done By : ETS-STAFF

Sampling Location : PLANT BOUNDARY TOWARDS EAST DIRECTION

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|------------------------|-------------|--------|-----------------------------------|-------------|
| 1 | Day Time Noise Level | Leq :dB (A) | 66.5 | 75 | IS: 9989 |
| 2 | Night Time Noise Level | Leq :dB (A) | 59.2 | 70 | IS: 9989 |

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.

Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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



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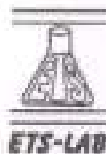
[Signature]
Md Humis
Quality Manager

AUTHORIZED SIGNATORY

Note:-

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TEST REPORT

TEST REPORT NO.: ETS/286/06/2020

URL:NOTC8771020000000378F

DATE OF REPORT: 24.06.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Monitoring Start Date : 18.06.2020

Monitoring End Date : 19.06.2020

Duration Of Monitoring : 24 HOURS

Sample ID No : 286/06

Monitoring Done By : ETS STAFF

Sampling Location : PLANT BOUNDARY TOWARDS NORTH DIRECTION

Sampling Method : ETS/STP/NOISE-01

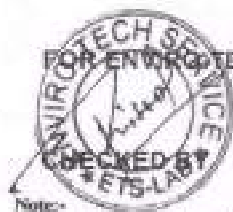
Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|------------------------|-------------|--------|-----------------------------------|-------------|
| 1 | Day Time Noise Level | Leq :dB (A) | 61.8 | 75 | IS: 9969 |
| 2 | Night Time Noise Level | Leq :dB (A) | 52.5 | 70 | IS: 9969 |

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.

Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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



Page 1 of 1

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P. Md Humayun
Quality Manager

AUTHORIZED SIGNATORY

Formal No ETS/LAB/TR-02, Issue No. 05, Date 01/04/2019, Amd. No. 04 Date 01/04/2019

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Cert. No. TC-6771

TEST REPORT

TEST REPORT NO.: ETS/287/06/2020 URL:NOTC8771020000000379F DATE OF REPORT: 24.06.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020
Monitoring Start Date : 18.06.2020
Monitoring End Date : 19.06.2020
Duration Of Monitoring : 24 HOURS
Sample ID No : 287/06
Monitoring Done By : ETS STAFF
Sampling Location : PLANT BOUNDARY TOWARDS WEST DIRECTION
(PROJECT OFFICE)
Sampling Method : ETS/STP/NOISE-01
Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|------------------------|-------------|--------|-----------------------------------|-------------|
| 1 | Day Time Noise Level | Leq :dB (A) | 59.6 | 75 | IS: 9989 |
| 2 | Night Time Noise Level | Leq :dB (A) | 50.8 | 70 | IS: 9989 |

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

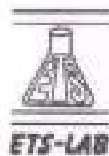
Md Humrai
Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-02, Issue No. 06, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

Note:-

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3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-232, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201015



ENVIRO-TECH SERVICES

An Analytical Laboratory

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph : 9911516076, 9811736063



NABL Accredited Lab
Cert. No. TC-6771

TEST REPORT

TEST REPORT NO.: ETS/288/06/2020

URL: NOTC67102000000380F

DATE OF REPORT: 24.06.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Monitoring Start Date : 18.06.2020

Monitoring End Date : 19.06.2020

Duration Of Monitoring : 24 HOURS

Sample ID No : 288/06

Monitoring Done By : ETS STAFF

Sampling Location : PLANT BOUNDARY TOWARDS SOUTH DIRECTION
(NEAR CCR BUILDING)

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|------------------------|-------------|--------|-----------------------------------|-------------|
| 1 | Day Time Noise Level | Leq :dB (A) | 55.1 | 75 | IS: 9989 |
| 2 | Night Time Noise Level | Leq :dB (A) | 47.6 | 70 | IS: 9989 |

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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



ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

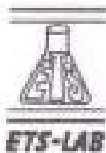

Md Humraj
Quality Manager

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/289/06/2020

URL:NOTC8771020000000381F

DATE OF REPORT: 24.06.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Monitoring Start Date : 18.06.2020

Monitoring End Date : 18.06.2020

Duration Of Monitoring : 8 HOURS

Sample ID No : 289/06

Monitoring Done By : ETS STAFF

Sampling Location : COMPRESSOR ROOM AREA

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factories Act) | Test Method |
|--------|------------------------------|--------|--------|--|-------------|
| 1 | Indoor Noise Level- Day Time | dB (A) | 61.5 | 90 | IS- 9876 |

Remark: Day time as per factory shift time.

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



FOR ENVIRO-TECH SERVICES

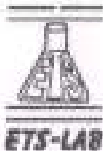
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Md Humra
Quality Manager

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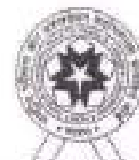
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email : etslab2012@gmail.com | Website : www.etslab.in | Ph : 9911516076, 9811736063



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Cert. No. 704771

TEST REPORT

TEST REPORT NO.: ETS/290/06/2020

URL:NOTC8771020000000382F

DATE OF REPORT: 24.06.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020
Monitoring Start Date : 18.06.2020
Monitoring End Date : 18.06.2020
Duration Of Monitoring : 8 HOURS
Sample ID No : 290/06
Monitoring Done By : ETS STAFF
Sampling Location : CEMENT MILL AREA
Sampling Method : ETS/STP/NOISE-01
Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factories Act) | Test Method |
|--------|------------------------------|--------|--------|--|-------------|
| 1 | Indoor Noise Level- Day Time | dB (A) | 77.3 | 90 | IS: 9876 |

Remark: Day time as per factory shift time.

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



Note:

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5. Head Office : G-232, M.G. Road Industrial Area, Hapur-Ghaziabad (U.P.) 201015

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Md Humayun
Quality Manager

AUTHORIZED SIGNATORY



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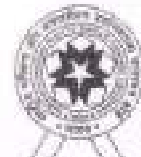
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TEST REPORT

TEST REPORT NO.: ETS/291/06/2020

URL:NOTC8771620000000983F

DATE OF REPORT: 24.06.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Monitoring Start Date : 18.06.2020

Monitoring End Date : 18.06.2020

Duration Of Monitoring : 8 HOURS

Sample ID No : 291/06

Monitoring Done By : ETS STAFF

Sampling Location : UNLOADING AREA

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factories Act) | Test Method |
|--------|------------------------------|--------|--------|--|-------------|
| 1 | Indoor Noise Level- Day Time | dB (A) | 72.1 | 90 | IS: 9876 |

Remark: Day time as per factory shift time.

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

Md Humayun
Quality Manager

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4. Our liability is limited to service value only.
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ETS-LAB

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph. : 9911516078, 9811736063

NABL Accredited Lab
Cert. No. TC-4771

TEST REPORT

TEST REPORT NO.: ETS/292/06/2020

URL:NOTC877102000000384F

DATE OF REPORT: 24.06.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 18.06.2020

Monitoring Start Date : 18.06.2020

Monitoring End Date : 18.06.2020

Duration Of Monitoring : 8 HOURS

Sample ID No : 292/06

Monitoring Done By : ETS STAFF

Sampling Location : PACKING PLANT AREA

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per Factories Act) | Test Method |
|--------|------------------------------|--------|--------|--|-------------|
| 1 | Indoor Noise Level- Day Time | dB (A) | 74.9 | 90 | IS- 9876 |

Remark: Day time as per factory shift time.

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

Md Humayun
Quality Manager

AUTHORIZED SIGNATORY

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J.K.CEMENT WORKS, ALIGARH ,
Village: Saiba, Tehsil: Koll, District: Aligarh (U.P.)

QUARTERLY NOISE LEVEL MONITORING RESULT

| Sl.No. | Month | Day / Night | Saiba Village | PLANT SITE JKCW Project office | Plant Site HIA/PCO Office | Plant Site Wagh Bridge | Remarks |
|-------------------|--------|-------------|---------------|-----------------------------------|---------------------------|------------------------|---------|
| 1 | Apr-20 | Day | 51 | 53.5 | 51.7 | 51.9 | |
| 2 | | Night | 45 | 44 | 44.8 | 43.5 | |
| 3 | May-20 | Day | 52 | 54 | 52 | 53 | |
| 4 | | Night | 46 | 45 | 43 | 42 | |
| 5 | Jun-20 | Day | 53 | 55 | 53 | 52 | |
| 6 | | Night | 47 | 46 | 44 | 42 | |
| QUARTERLY AVERAGE | | DAY | 52.0 | 54.2 | 52.2 | 52.3 | |
| | | NIGHT | 46.0 | 45.0 | 43.9 | 42.5 | |

Monitored By



Checked By

J.K.CEMENT WORKS, ALIGARH ,
Village: Sathia, Tehsil: Koli, District: Aligarh (U.P.)

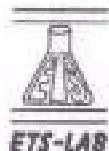
QUARTERLY NOISE LEVEL MONITORING RESULT

| Sr.No. | Month | Day / Night | COMPRESSOR ROOM AREA | CEMENT MILL AREA | UNLOADING AREA | PACKING PLANT AREA | Near DG set |
|--------|------------|-------------|----------------------|------------------|----------------|--------------------|-------------|
| 1 | 28.04.2020 | Day | 81.80 | 77.50 | 75.00 | 74.80 | |
| 2 | 23.05.2020 | Day | 80.00 | 76.40 | 74.00 | 75.40 | |
| 3 | 12.06.2020 | Day | 81.00 | 77.00 | 74.50 | 74.20 | |

Responsible
 Monitored By :-



Checked
 Checked By



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9811516076, 9811736063



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Cert. No. TC-5771



TEST REPORT

TEST REPORT NO.: ETS/258/09/2020

URL:NOTG871020000001107F

DATE OF REPORT: 22.09.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. J.K. CEMENT LTD.
ALIGARH-KASIMPUR ROAD, VILLAGE-SANTHA, PARGANA
MORTHAL, TEHSIL- KOIL, DISTRICT-ALIGARH, U.P.

Date of Monitoring : 17.09.2020

Monitoring Start Date : 17.09.2020

Monitoring End Date : 18.09.2020

Duration Of Monitoring : 24 HOURS

Sample ID No : 258/09

Monitoring Done By : ETS STAFF

Sampling Location : PLANT BOUNDARY TOWARDS EAST DIRECTION

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

| S. No. | Test Parameter | Unit | Result | Specification/Limit (As per CPCB) | Test Method |
|--------|------------------------|-------------|--------|-----------------------------------|-------------|
| 1 | Day Time Noise Level | Leq :dB (A) | 73.6 | 75 | IS: 9969 |
| 2 | Night Time Noise Level | Leq :dB (A) | 62.5 | 70 | IS: 9969 |

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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



FOR ENVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

Md Humraj

Manager
AUTHORIZED SIGNATORY

Format No ETS/LAB/NT-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Notes:-

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Year wise expenditure for CER Activity

The company proposes to spend Rs 400.0 Lakhs (@ 1.5 % of Total Project cost (Rs. 26646 Lakhs) in the next five years for carrying out various activities under Corporate Environmental Responsibility (CER) as per MOEF OM dated 1st May 2018. The company also proposes to spend towards EMP in nearby areas, education of children from nearby areas and by organizing regular health check-up camps and by carrying out infrastructural development for overall development of nearby villages. Year wise action plan for all developmental activities under "Corporate Environmental Responsibility" are as follows:

CER Budgetary Breakup

| CER Activities | 5 Year Plan for CER (in Lakhs) | | | | | |
|---|---------------------------------|------------------|------------------|------------------|------------------|------------|
| | 01 st | 02 nd | 03 rd | 04 th | 05 th | Total |
| 1. Tube wells in nearby villages | 5 | 5 | 5 | 5 | 5 | 25 |
| 2. Health Camp (2 times annually) | 3 | 3 | 3 | 3 | 3 | 15 |
| 3. Eye Camp (2 times annually) | 4 | 4 | 4 | 4 | 4 | 20 |
| 4. Waste Management in Nearby area as per Swachh Bharat Abhiyan | 8 | 8 | 8 | 8 | 8 | 40 |
| 5. Library, Free Books & Stationery items | 5 | 4 | 4 | 4 | 4 | 21 |
| 6. Computer Literacy Program | 5 | 5 | 5 | 5 | 5 | 25 |
| 7. Training & Skill Development of local youths | 6 | 6 | 6 | 6 | 6 | 30 |
| 8. Repair of School Buildings | 15 | 15 | 15 | 15 | 15 | 75 |
| 9. Solar light distribution | 10 | 6 | 6 | 6 | 6 | 34 |
| 10. Infrastructure Development in nearby villages | 15 | 15 | 15 | 15 | 15 | 75 |
| 11. Creation of recharge pond | 8 | 8 | 8 | 8 | 8 | 40 |
| Total | 84 | 79 | 79 | 79 | 79 | 400 |
| NET AMOUNT | | | | | | 400 |

In addition to CER, JK Cement Works will spend 2 % of total profit in average three financial years as CSR under factory act.



Annexure-5

EMP Expenditure Details (Up to September 2020)

JK Cement Works, Aligarh

| S. No. | Description of Item | Capital Cost (In Rs.) |
|--------------|--|--------------------------|
| 1 | Air Pollution Control | 1054.38 |
| 2 | Water Pollution Control | 102.00 |
| 3 | Environmental Monitoring and Management | 14.00 |
| 4 | Green Belt Development | 3.79 |
| Total | | 1174.17 |



ENVIRONMENTAL STATEMENT**FORM - V**

Environmental Statement for the financial year 2019-20, ending the 31st March 2020

PART-A

| | |
|--|--|
| I. Name and address of the owner/occupier of the industry operation or process | JK Cement Works (Clinker Grinding Unit) (A Unit of JK Cement Limited) Village: Satha, Tehsil: Koil, District: Aligarh (UP) |
| II. Industry category Primary - (STC Code) Secondary - (STC Code) | Primary |
| III. Production capacity | Cement- 5836 TPD |
| IV. Year of establishment- (UNIT WISE) | Year- 2020 |
| V. Date of last environmental statement submitted | Not Applicable unit started Month- Feb nd 2020 |

PART-B**WATER AND RAW MATERIAL CONSUMPTION****I. WATER CONSUMPTION in m³/day**

| | | |
|----------|---|-------------------------|
| Process | : | NIL |
| Cooling | : | 174 m ³ /day |
| Domestic | : | 10 m ³ /day |

| Name of products | Process water consumption per unit of products | |
|------------------|---|--|
| | During the previous financial year (2018-19) (KL/MT) | During the current financial year (2019-20) (KL/MT) |

| | | |
|------------------|--|--------------|
| I. CEMENT | Not Applicable unit started Month- Feb`2020 | 0.061 |
|------------------|--|--------------|

* Total water consumption including WHR waste water reutilized.

ii. RAW MATERIAL CONSUMPTION

| Name of raw material | Name of products | Consumption of raw material per unit of output | |
|----------------------|------------------|--|---|
| | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| Clinker | Cement | Not Applicable unit started Month- Feb`2020 | 0.7443 |
| Gypsum | | | 0.0753 |
| Flyash% of OPC + PPC | | | 0.1804 |
| Flyash% of PPC | | | 0.1804 |

PART-C

POLLUTION DISCHARGE TO ENVIRONMENT / UNIT OF OUTPUT

| Pollutants | Quantity of pollutants discharged (Ton/Day) | Concentration of pollutants in discharge (mg/Nm3) | Percentage of variation from prescribed standards with reasons |
|------------------|--|---|--|
| (a) Water | Cement plant is being operated on dry process technology, hence no liquid effluent is generated. Domestic waste water generated from the office toilet and canteen is being discharged in soak pit through septic tank. | | |
| (b) Air | Stack Emission & Ambient air Monitoring report is attached as Annexure-I Ambient Air Noise monitoring report is attached as Annexure-II | | |

PART-D

(As specified under Hazardous & Other Waste Management Rules-2016)

| Hazardous waste | Total Quantity | |
|---------------------------------------|--|---|
| | During previous financial year (2018-19) (KL) | During current financial year (2019-20) (KL) |
| (a) From process | Not Applicable unit started Month- Feb' 2020 | Used oil (5.1)- NIL Waste oil (5.2)- NIL |
| (b) From pollution Control facilities | Not applicable | Not applicable |

* Hazardous waste generated will be sold to authorized recycler authorized by CPCB.

PART-E
SOLID WASTE

| | | Total Quantity | |
|-----|---|--|--|
| | | During previous financial year (2018-19) (MT/Year) | During current financial year (2019-20) (MT/Year) |
| (a) | From process | NONE | NONE |
| (b) | From pollution control facility | Not Applicable unit started Month- Feb' 2020 | Dust collected in bag house and bag filters are recycled into the system |
| (c) | Quantity rejected or reutilized with in the unit | 100% | 100% |

PART-F

PLEASE SPECIFY THE CHARACTERISATIONS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.

- 1) Hazardous waste generated in the form of used / spent oil, waste / residue containing oil, which is stored in barrels at safe & dedicated area and will be sold to recycler approved by Central Pollution Control Board.

- 2) Dust collected from pollution control equipment's (i.e. from Bag house and Bag filter) is totally recycled in the process.

PART-G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.

Cement manufacturing is a dry process technology, hence no effluent generated from process. Which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy. The stack emissions from the plant are controlled by equipment like Bag filters installed at various material transfer points to arrest the fugitive emissions. The particulate matter collected from the pollution control equipment is recycled in process and optimizing the cost of operation of pollution control equipment, conserving natural raw material and hence no impact on the environment.

PART-H

ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION.

- 1) Closed clinker storage silo constructed to reduce the fugitive dust emission, with sufficient pollution control equipment.
- 2) Fly ash stored in closed silo constructed to reduce the fugitive dust emission, with sufficient pollution control equipment.
- 3) Gypsum stored in covered raw material yard to reduce the fugitive dust emission, with sufficient pollution control equipment.

PART-I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT

- 1) Monitoring of stack emission and ambient air and water quality is being done regularly as mentioned in consent to operate.
- 2) 4 nos. of Ambient Air Quality Monitoring Systems have been installed at periphery of the plant.
- 3) Continuous Emission Monitoring Systems (CEMS) for PM have been installed at stack of cement mill and real time data transfer to Pollution Control Board server.
- 4) Bag filters have been installed at various material transfer points to control fugitive emission.
- 5) Cement being manufacturing in dry process and there is no any effluent generated from the process hence maintaining Zero Effluent Discharge unit.
- 6) Fly ash purchased from nearby thermal power plant and use for cement production.
- 7) Raw materials are stored in covered shed, product in closed silo with high efficient bag filters for fugitive dust emission control.
- 8) Proper Housekeeping and cleaning is being done with the help of road sweeping machines.

- 9) Cover shed Constructed to store the raw material, to avoid fugitive emission. Finish product stored in closed silo.
- 10) All Belt Conveyor belt are fully covered & also installed Bag filter at all material transfer points
- 11) Cemented road constructed to avoid fugitive dust generation during the movement of vehicle.
- 12) Online water level recorder installed for online ground water level monitoring.
- 13) Industry has constructed 03 nos. of rain water harvesting structures in plant to recharge ground water.
- 14) Total 250 plants planted in FY- 2019-20, and We are planting more trees inside plant to cover more than 33% area under green belt.

