

Our Ref. No.: MGR-PC-21/C13

By Mail

Date: 25.05.2022

To,

The Director (I),
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhavan,
JOR Bagh Road, Aliganj,
New Delhi-110003

Sub: Environmental Clearance Compliance report for Expansion of Clinker and Cement production, Captive power plant and WHRS of **M/s J.K. Cement Works, Mangrol** at Village- Mangrol, District- Chittorgarh, Rajasthan.

Ref.: EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.

Dear Sir,

With reference to above stated Environment Clearance (EC) accorded for our Mangrol plant, Clinker (2.90 MMTPA to 5.65 MMTPA) and Cement (3.54 MMTPA to 7.05 MMTPA) Captive Power Plant from 25 MW to 60 MW, and WHRB from 10 MW to 36 MW at our J.K. Cement Works, Mangrol. Please find attached herewith six monthly compliance for the period from **October' 2021 to March' 2022**. As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the same soft copy has been send to email id. moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, iro.jaipur-mefcc@gov.in for your kind reference and record please. We trust you will find the same in order.

Thanking you,

Yours Faithfully

For J.K Cement Works, Mangrol



R.B.M Tripathi
President (Operations)

Encl: as above

Copy to:

1. The Deputy Director(S), Ministry of Environment, Forests & Climate Change, Integrated Regional office, Jaipur, A-218, Aranya Bhawan, Jhalana Institutional Area, Jaipur-302004
2. The Regional Director, Central Pollution Control Board, Paryavaran Parisar, E-5, Arera colony, Bhopal (M.P) 462016
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, New Delhi 110032.
4. The Chairman, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur - 302004 (Rajasthan)



Corporate Office

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**HALF YEARLY COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCE LETTER NO.**

J-11011/267/2013-IA. II (I) Dated 08.09.2016 and amended 08.03.2019


Period: October-21 to March-22

**For
Expansion of Integrated Cement Project:
Clinker (2.90 MMTPA to 5.65 MMTPA) and Cement (3.45 MMTPA to
7.05 MMTPA) Captive Power Plant from 25 MW to 60 MW, and
WHRB from 10 MW to 36 MW**

**Submitted to:
MoEF&CC, New Delhi & Integrated Regional Office, Jaipur
Central Pollution Control Board, New Delhi & Bhopal
Rajasthan State Pollution Control Board, Jaipur**

**Submitted by:
M/s J.K.CEMENT WORKS, MANGROL,
Villages; Mangrol, Tehsil: Nimbahera, District: Chittorgarh (Raj)**



ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (Rajasthan)
EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.
(Period Oct'2021 to Mar'2022)

| SN. | Details of Conditions | Conditions Compliance Status |
|----------------------------|---|---|
| Specific Conditions | | |
| (i) | The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by the CPCB and submit report to Ministry and its Regional Office. | <p>Complied with,</p> <p>Four nos. Continuous Air Quality Monitoring Station (CAAQMS) has installed at periphery of the plant for ambient air quality monitoring and real time data are being transmitted to SPCB/SPCB portal.</p> <p><u>Photographs of CAAQMS:</u></p>  |
| (ii) | The Standard issued by the Ministry vide G.S.R. No. 612 (E) dated 25 th August, 2014 and subsequent amendment dated 9 th May, 2016 and 10 th May, 2016 regarding cement plant with respect to particulate matter, SO ₂ and NO _x shall be followed. | <p>Complying with.</p> <p>Unit is meeting the PM emission within the limit for which Bag House installed. To meet the NO_x emission within the limit SNCR is installed.</p> <p><u>Photographs of SNCR:</u></p> |

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(Period Oct'2021 to Mar'2022)

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|-------|--|--|
| | | <div data-bbox="890 164 2022 451" data-label="Image"> </div> <p>Stack emission monitoring report for the period Oct-21 to March -22 enclosed as Annexure-1.</p> |
| (iii) | <p>Continuous stack monitoring facilities to monitor gaseous emissions from process stacks shall be provided. After expansion, limit of PM shall be controlled to meet prescribed standards by installing adequate air pollution control viz. Electrostatic precipitators to clinker cooler, bag house to raw mill/kiln and bag filter to coal mill and cement mill. Low Nox burner shall be provide to control Nox emissions. Regular calibration of the instruments must be ensured.</p> | <p>Complying with.</p> <ul style="list-style-type: none"> • CEMS system have been installed for monitoring of PM, SO₂ and NO_x at all stack. • Bag house installed at kiln section, cement mills & coal mills section • ESP installed at Boiler stack and cooler section. • Low NO_x burner has installed in Line-1, Line- 2 & Line- 3. • Real time data are being uploading regularly on SPCB & RSPCB web portal. <p align="center">Photographs of Continuous Stack Emission Monitoring System</p> <p>Opacity meters</p> <div data-bbox="884 966 1980 1317" data-label="Image"> </div> |

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| | | <p>Gas analyzer</p>   |
| (iv) | Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonnes for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker. | All suitable measures like VVFD, high efficient motors have been adopted to reduce power consumption. |
| (v) | The National Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed. | <p>Complying with.</p> <p>Ambient air quality monitoring report of NABL accredited lab enclosed as Annexure-2.</p> |
| (vi) | AAQ Modelling shall be carried out based on the specific mitigative measures taken in the existing project and proposed for the expansion project to keep the emissions well below prescribed standards. | Complying with. |
| (vii) | Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines/Code of Practice issued by the CPCB in this regard shall be followed. | <p>Complying with.</p> <p>To control the secondary fugitive emissions, bag filter installed at material transfer point and enclosure at hopper, water spray system, covered shed and storage silo for intermediate & finished product.</p> <p>Photographs of control measures for fugitive emission:</p> |

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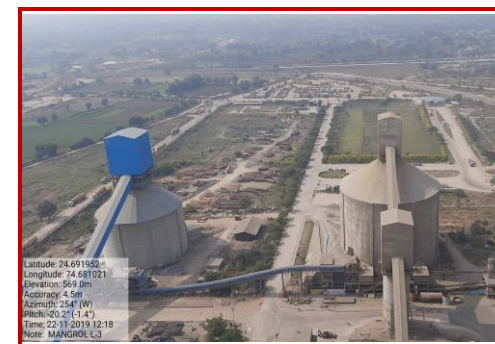
Raw material covered belt conveyor



Bag filters installed at material transfer point



Raw meal storage in CF silo





Clinker Storage Silo

Fugitive emission monitoring report of period Oct-21 to March-22 mention below table:

Unit -1

| SN. | Month/Year | SPM ($\mu\text{g}/\text{m}^3$) | | | |
|-----|------------|----------------------------------|--------------------------------|------------------------|--------------------|
| | | Near Coal Yard-1 | Near Limestone Crushing Site-1 | Near Stack Reclaimer-1 | Near Gypsum Yard-1 |
| 1 | Oct-21 | 1280.1 | 1456.0 | 1347.0 | 1167.5 |
| 2 | Nov-21 | 1173.9 | 1526.4 | 1407.5 | 1078.7 |
| 3 | Dec-21 | 1346.6 | 1677.6 | 1564.8 | 1274.4 |
| 4 | Jan-22 | 1240.6 | 1720.8 | 1662.6 | 1141.9 |
| 5 | Feb-22 | 847.8 | 1257.5 | 1321.1 | 744.9 |
| 6 | Mar-22 | 1046.5 | 1381.3 | 1495.8 | 988.7 |





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| (ix) | For the employees working in high temperature zones falling in the plant operation areas, the total shift duration would be 4 hrs or less per day where the temperature is more than 50°C. Moreover, the jobs of these employees will be alternated in such a way that no employee is subjected to working in high temperature area for more than 1 hr continuously. Such employees would be invariably provided with proper protective equipments, garments and gears such as head gear, clothing, gloves eye protection etc. There should also be an arrangement for sufficient drinking water at site to prevent dehydration etc. | No any workmen/ employee are being allowed to work more than 4 hr. where temperature is more than 50°C. However, during shutdown, works start only after cooling of equipment. Personal protective equipment (PPEs) are being provided to respective worker. |
| (x) | Arsenic and Mercury shall be monitored in emissions, ambient air and water. | Arsenic and mercury monitoring in emissions, ambient air & water is being carried out by MOEF&CC recognised lab. |
| (xi) | The coal yard shall be lined and covered. | <p>Complying with.</p> <p>Coal are being storage in covered storage yard.</p> <div style="display: flex; justify-content: space-around;">   </div> |
| (xii) | The project proponent shall prepare a report on impact of project on surrounding reserve forest within six months and will get it approved from the State Forest Department. A copy of the conservation with the State Forest and Wildlife Department. A copy of the same should be submitted to the Ministry and its Regional | <p>Not applicable.</p> <p>There is no Wildlife Sanctuary, National Park, within 10 Km periphery of the lease area. (Ref. Annexure-3) The same has been authenticated by Deputy Conservator of forest Chittorgarh vide letter no. AF () survey/UVS/2021-22/4089 dated 13.07.2021.</p> |



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| | | |
|--------|--|---|
| | Office. | |
| (xiii) | The project proponent shall take all precautionary measures for conservation and protection of wild fauna in the study area. A Wildlife Conservation Plan specific to this project site shall be prepared in consultation with State Forest and Wildlife Department. A copy of the Conservation plan shall be submitted to the Ministry and its Regional Office. | <p>Complying with</p> <p>The Wildlife conservation plan has been prepared for six nos. of the following Schedule-I species found in the buffer area during the survey: -</p> <p>(a.) <i>Pavocristatus</i> (Indian Peafowl), (b.) <i>Pantherapadusfusca</i> (Indian Leopard), (c.) <i>Prionailurusrubiginosus</i> (Rusty-Spotted Cat), (d.) <i>Canis lupus pallipes</i> (Indian Wolf), (e.) <i>Varanusbengalensis</i> (Indian Monitor Lizard) (f.) <i>Gyps indicus/Gyps bengalensis</i> (Indian Vulture)</p> <p>5 Nos. of captive Limestone Mines and 2 Nos. of Integrated Cement Plant of J K Cement Ltd are situated within 10 KMS radius in Tehsil Nimbahera, Chittorgarh District and accordingly, Cumulative Wildlife Conservation Plan for 6 Sch-1 Species (Indian Peafowl (<i>Pavo cristatus</i>), Panther (<i>Panthera pardus fusca</i>), Rusty Spotted Cat (<i>Prionailurusrubiginosus</i>), Indian Wolf (<i>Canis lupus pallipes</i>), Indian Monitor lizard (<i>Varanus bengalensis</i>) and Indian vulture (<i>Gyps indicus/bengalensis</i>). Wild life conservation plan has been forwarded by the DFO Chittorgarh to Divisional chief conservator of forest vide letter no F (5) survey/UVS/2021-22/4089 dated 13.07.2021 and accordingly 20% amount of Rs. 57.07 Lakh deposited by us against total WCP cost of Rs.285.30 Cr in July,21. Copy of Letter is enclosed as Annexure-4.</p> |
| (xiv) | The project proponent will also provide the latest status of the environment compliances in respect of its existing plant. | <p>Complying with.</p> <p>Periodical EC compliance is being submitted and last EC compliance report submitted vide our letter no. MGR/PC/21/C13 dated 26/11/2021 send by email for the period from April 21 to Sept 2021.</p> |
| (xv) | Efforts shall be made to reduce impact of the transport of the raw material and end products on the surrounding environment including agricultural land by the use of conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored. | <p>Complying with.</p> <p>Raw material like coal/ petcock is being transported through rail and maximum quantity of finished product dispatch through rail. Fly ash is being sourced from nearby to reduce the transportation impact. Separate truck parking area facilitated near the factory gate and regular water spray on road & yard being done.</p> |

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| | |  <p>Material Transportation by railway</p> |  <p>Water spraying system (fog system) at coal unloading point</p> |
| (xvi) | <p>Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated waste water shall be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process waste water shall be discharged outside the factory premises and 'zero' discharge shall be adopted.</p> | <p>Complying with.</p> <p>For reduce the water consumption, unit has already installed air cooled condensers in captive power plant & WHRS.</p> <p>For maintain ZERO LIQUID DISCHARGE UNIT, 100% treated water of WHRS & CPP are being utilization in cement plant for cooling purpose & dust suppression.</p> <p align="center">Photographs of ACC system</p> <div>   </div> | |

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| (xvii) | Efforts shall be made to make use of rain water harvested. If needed capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. | <p>Complying with.</p> <p>Our unit has taken various step on water harvesting and conservation through plant optimization and taking up various support programme in and around our unit under CSR initiative also. Total 16 nos. artificial rain water harvesting structures (Injection well) & 01 Nos. artificial pond constructed in our plant, Colony for recharge the ground water.</p> <p>Photographs of Rain water harvesting structure (Injection Well)</p> <div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|--|--------|------------|-----------|--------|--------|--------|--------|--------|--------|---|----|--------------------|------|------|------|------|------|------|---|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|---|------------------------|------------------------|----|---|----|----|----|----|---|--------------------------|-----------------------|------|------|------|------|------|------|
| (xviii) | Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986. | <p>Complying with.</p> <ul style="list-style-type: none">• No any effluent generated from cement plant.• Only Domestic sewage generated from colony & plant which is treated in through STP and reuse in plantation.• Effluent generated from CPP & WHRS, after neutralization reuse in cement plant.• Treated waste water analysis data of CPP & WHRS is mention below table: <p>Domestic sewage treated (STP) water analysis data are given in below table:</p> <table><tr><th>S N</th><th>Parameters</th><th>Standards</th><th>Oct-21</th><th>Nov-21</th><th>Dec-21</th><th>Jan-22</th><th>Feb-22</th><th>Mar-22</th></tr><tr><td>1</td><td>pH</td><td>Between 5.5 to 9.0</td><td>7.32</td><td>7.48</td><td>7.53</td><td>6.27</td><td>8.23</td><td>7.34</td></tr><tr><td>2</td><td>Chlorides as Cl</td><td>Not to exceed 1000 mg/l</td><td>114</td><td>103</td><td>117</td><td>123</td><td>134</td><td>128</td></tr><tr><td>3</td><td>Total Suspended solids</td><td>Not to exceed 100 mg/l</td><td>12</td><td>9</td><td>13</td><td>18</td><td>22</td><td>20</td></tr><tr><td>4</td><td>Biological Oxygen Demand</td><td>Not to exceed 30 mg/l</td><td>6.48</td><td>6.11</td><td>6.73</td><td>7.23</td><td>8.92</td><td>6.73</td></tr></table> | S N | Parameters | Standards | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | 1 | pH | Between 5.5 to 9.0 | 7.32 | 7.48 | 7.53 | 6.27 | 8.23 | 7.34 | 2 | Chlorides as Cl | Not to exceed 1000 mg/l | 114 | 103 | 117 | 123 | 134 | 128 | 3 | Total Suspended solids | Not to exceed 100 mg/l | 12 | 9 | 13 | 18 | 22 | 20 | 4 | Biological Oxygen Demand | Not to exceed 30 mg/l | 6.48 | 6.11 | 6.73 | 7.23 | 8.92 | 6.73 |
| S N | Parameters | Standards | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | pH | Between 5.5 to 9.0 | 7.32 | 7.48 | 7.53 | 6.27 | 8.23 | 7.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Chlorides as Cl | Not to exceed 1000 mg/l | 114 | 103 | 117 | 123 | 134 | 128 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Total Suspended solids | Not to exceed 100 mg/l | 12 | 9 | 13 | 18 | 22 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Biological Oxygen Demand | Not to exceed 30 mg/l | 6.48 | 6.11 | 6.73 | 7.23 | 8.92 | 6.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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(Period Oct'2021 to Mar'2022)

| | | | | | | | | | | |
|------------------|------------------------|---|--|------------------------|--------|--------|--------|--------|--------|-------|
| | | | (3 days at 27 Degree C) | | | | | | | |
| | | 5 | Chemical Oxygen Demand | Not to exceed 250 mg/l | 27 | 25 | 31 | 34 | 38 | 35 |
| | | 6 | Oil & Grease | Not to exceed 10 mg/l | <1.97 | <1.74 | <1.88 | <1.62 | <1.51 | <1.49 |
| | | 7 | Ammonical Nitrogen (as N) | Not to exceed 50 mg/l | <0.10 | <0.10 | <0.10 | <0.20 | <0.30 | <0.10 |
| | | 8 | Sulphide (as S) | Not to exceed 2.0 mg/l | <0.15 | <0.13 | <0.11 | <0.12 | <0.09 | <0.07 |
| | | 9 | Total Residual Chlorine | Not to exceed 1.0 mg/l | <0.1 | <0.1 | <0.2 | <0.1 | <0.2 | <0.1 |
| | | ETP treated water analysis data of Captive Power Plant is given in below table: | | | | | | | | |
| | | Parameters | Standard | Analysis results | | | | | | STOP |
| | | | | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | |
| | | Total Suspended Solids (TSS) | Not to exceed 100 mg/l | 20.31 | 19.89 | 18.38 | 18.37 | 18.43 | | |
| | | Oil & Grease | Not to exceed 10 mg/l | <0.41 | <0.42 | <0.41 | <0.42 | <0.43 | | |
| | | Total Residual Chlorine | Not to exceed 1.0 mg/l | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | |
| | | Free available chlorine | Not to exceed 0.5 mg/l | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | |
| | | pH Value | Between 6.5 to 8.5 | 7.57 | 7.54 | 7.54 | 7.54 | 7.55 | | |
| | | Temperature | Shall not exceed 5°C above the receiving water temperature | <4 °c | <4 °c | <4 °c | <4 °c | <4 °c | | |
| Copper as (Cu) | Not to exceed 1.0 mg/l | <0.03 | <0.05 | <0.02 | <0.04 | <0.02 | | | | |
| Zinc (as Zn) | Not to exceed 1.0 mg/l | <0.02 | <0.01 | <0.03 | <0.02 | <0.01 | | | | |
| Iron (Total) | Not to exceed 1.0 mg/l | <0.42 | <0.42 | <0.41 | <0.42 | <0.43 | | | | |
| Chromium (total) | Not to exceed 0.2 mg/l | 0.04 | 0.06 | 0.05 | 0.05 | 0.04 | | | | |
| BOD | Not to exceed 30 mg/l | 6.94 | 6.48 | 7.06 | 8.14 | 7.34 | | | | |
| COD | Not to exceed 250 mg/l | 30 | 31 | 29 | 32 | 26 | | | | |





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| | | <table><tr><td>Phosphate</td><td>Not to exceed 5 mg/l</td><td>0.44</td><td>0.44</td><td>0.44</td><td>0.42</td><td>0.46</td><td></td></tr></table> | Phosphate | Not to exceed 5 mg/l | 0.44 | 0.44 | 0.44 | 0.42 | 0.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|------------|----------------------|------------------|--------|--------|------|------|--|--------|--------|--------|--------|--------|--------|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|--------------|-----------------------|-------|-------|-------|-------|-------|-------|-------------------------|------------------------|------|------|------|-------|-------|-------|-----------|-----------------------|------|------|------|------|------|------|-------------------------|------------------------|-------|-------|-------|-------|-------|-------|----------|--------------------|------|------|------|------|------|------|-------------|--|-------|-------|-------|-------|-------|-------|-----------------|------------------------|-------|-------|-------|-------|-------|-------|--------------|------------------------|-------|-------|-------|-------|-------|-------|--------------|------------------------|------|------|------|------|------|------|------------------|------------------------|------|------|------|------|------|------|-----|-----------------------|------|------|------|------|------|------|-----|------------------------|-------|-------|-------|-------|-------|-------|
| Phosphate | Not to exceed 5 mg/l | 0.44 | 0.44 | 0.44 | 0.42 | 0.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ETP treated water analysis data of Waste Heat Recovery System is given in below table: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Parameters</th><th rowspan="2">Standard</th><th colspan="6">Analysis results</th></tr><tr><th>Oct-21</th><th>Nov-21</th><th>Dec-21</th><th>Jan-22</th><th>Feb-22</th><th>Mar-22</th></tr><tr><td>Total Suspended Solids (TSS)</td><td>Not to exceed 100 mg/l</td><td>31.80</td><td>31.34</td><td>30.59</td><td>27.00</td><td>28.16</td><td>27.05</td></tr><tr><td>Oil & Grease</td><td>Not to exceed 10 mg/l</td><td><0.42</td><td><0.44</td><td><0.43</td><td><0.41</td><td><0.35</td><td><0.29</td></tr><tr><td>Total Residual Chlorine</td><td>Not to exceed 1.0 mg/l</td><td><0.2</td><td><0.4</td><td><0.4</td><td><0.02</td><td><0.01</td><td><0.02</td></tr><tr><td>Phosphate</td><td>Not to exceed 05 mg/l</td><td>0.68</td><td>0.62</td><td>0.61</td><td>0.55</td><td>0.51</td><td>0.59</td></tr><tr><td>Free available chlorine</td><td>Not to exceed 0.5 mg/l</td><td><0.06</td><td><0.03</td><td><0.02</td><td><0.03</td><td><0.04</td><td><0.02</td></tr><tr><td>pH Value</td><td>Between 6.5 to 8.5</td><td>7.73</td><td>7.74</td><td>7.73</td><td>7.77</td><td>7.68</td><td>7.73</td></tr><tr><td>Temperature</td><td>Shall not exceed 5°c above the receiving water temperature</td><td><4 °c</td><td><4 °c</td><td><4 °c</td><td><4 °c</td><td><4 °c</td><td><4 °c</td></tr><tr><td>Copper as (Cu)</td><td>Not to exceed 1.0 mg/l</td><td><0.02</td><td><0.02</td><td><0.03</td><td><0.02</td><td><0.01</td><td><0.03</td></tr><tr><td>Zinc (as Zn)</td><td>Not to exceed 1.0 mg/l</td><td><0.01</td><td><0.02</td><td><0.02</td><td><0.03</td><td><0.02</td><td><0.01</td></tr><tr><td>Iron (Total)</td><td>Not to exceed 1.0 mg/l</td><td>0.46</td><td>0.41</td><td>0.42</td><td>0.42</td><td>0.41</td><td>0.38</td></tr><tr><td>Chromium (total)</td><td>Not to exceed 0.2 mg/l</td><td>0.04</td><td>0.03</td><td>0.06</td><td>0.05</td><td>0.03</td><td>0.04</td></tr><tr><td>BOD</td><td>Not to exceed 30 mg/l</td><td>7.82</td><td>7.56</td><td>6.98</td><td>7.38</td><td>8.29</td><td>9.14</td></tr><tr><td>COD</td><td>Not to exceed 250 mg/l</td><td>33.00</td><td>32.00</td><td>30.00</td><td>34.00</td><td>38.00</td><td>41.00</td></tr></table> | Parameters | Standard | Analysis results | | | | | | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Total Suspended Solids (TSS) | Not to exceed 100 mg/l | 31.80 | 31.34 | 30.59 | 27.00 | 28.16 | 27.05 | Oil & Grease | Not to exceed 10 mg/l | <0.42 | <0.44 | <0.43 | <0.41 | <0.35 | <0.29 | Total Residual Chlorine | Not to exceed 1.0 mg/l | <0.2 | <0.4 | <0.4 | <0.02 | <0.01 | <0.02 | Phosphate | Not to exceed 05 mg/l | 0.68 | 0.62 | 0.61 | 0.55 | 0.51 | 0.59 | Free available chlorine | Not to exceed 0.5 mg/l | <0.06 | <0.03 | <0.02 | <0.03 | <0.04 | <0.02 | pH Value | Between 6.5 to 8.5 | 7.73 | 7.74 | 7.73 | 7.77 | 7.68 | 7.73 | Temperature | Shall not exceed 5°c above the receiving water temperature | <4 °c | <4 °c | <4 °c | <4 °c | <4 °c | <4 °c | Copper as (Cu) | Not to exceed 1.0 mg/l | <0.02 | <0.02 | <0.03 | <0.02 | <0.01 | <0.03 | Zinc (as Zn) | Not to exceed 1.0 mg/l | <0.01 | <0.02 | <0.02 | <0.03 | <0.02 | <0.01 | Iron (Total) | Not to exceed 1.0 mg/l | 0.46 | 0.41 | 0.42 | 0.42 | 0.41 | 0.38 | Chromium (total) | Not to exceed 0.2 mg/l | 0.04 | 0.03 | 0.06 | 0.05 | 0.03 | 0.04 | BOD | Not to exceed 30 mg/l | 7.82 | 7.56 | 6.98 | 7.38 | 8.29 | 9.14 | COD | Not to exceed 250 mg/l | 33.00 | 32.00 | 30.00 | 34.00 | 38.00 | 41.00 |
| Parameters | Standard | Analysis results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Suspended Solids (TSS) | Not to exceed 100 mg/l | 31.80 | 31.34 | 30.59 | 27.00 | 28.16 | 27.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oil & Grease | Not to exceed 10 mg/l | <0.42 | <0.44 | <0.43 | <0.41 | <0.35 | <0.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Residual Chlorine | Not to exceed 1.0 mg/l | <0.2 | <0.4 | <0.4 | <0.02 | <0.01 | <0.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phosphate | Not to exceed 05 mg/l | 0.68 | 0.62 | 0.61 | 0.55 | 0.51 | 0.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Free available chlorine | Not to exceed 0.5 mg/l | <0.06 | <0.03 | <0.02 | <0.03 | <0.04 | <0.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH Value | Between 6.5 to 8.5 | 7.73 | 7.74 | 7.73 | 7.77 | 7.68 | 7.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature | Shall not exceed 5°c above the receiving water temperature | <4 °c | <4 °c | <4 °c | <4 °c | <4 °c | <4 °c | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper as (Cu) | Not to exceed 1.0 mg/l | <0.02 | <0.02 | <0.03 | <0.02 | <0.01 | <0.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc (as Zn) | Not to exceed 1.0 mg/l | <0.01 | <0.02 | <0.02 | <0.03 | <0.02 | <0.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iron (Total) | Not to exceed 1.0 mg/l | 0.46 | 0.41 | 0.42 | 0.42 | 0.41 | 0.38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromium (total) | Not to exceed 0.2 mg/l | 0.04 | 0.03 | 0.06 | 0.05 | 0.03 | 0.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD | Not to exceed 30 mg/l | 7.82 | 7.56 | 6.98 | 7.38 | 8.29 | 9.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COD | Not to exceed 250 mg/l | 33.00 | 32.00 | 30.00 | 34.00 | 38.00 | 41.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Treated waste water analysis report of NABL accredited lab enclosed as Annexure-5 . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (xix) | All the bag filter, raw mill dust, coal dust, clinker dust and cement dust from Pollution Control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be | Complying with. Raw mill dust, coal dust, clinker dust and cement dust from Pollution control equipment like Bag house / ESP are being 100% recycled in cement plant. Hazardous waste i.e. Used Oil (5.1), Waste oil (5.2) are being sold to authorized recyclers & | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (Rajasthan)
EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.
(Period Oct'2021 to Mar'2022)

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| | sold to authorized recyclers/re-processors only. | batteries return back to supplier as well as recycler. |
| (xx) | The kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes and other wastes including biomass, etc. | <p>Complying with.</p> <p>AFR feeding system has been installed for solid as well as for liquid AFR feeding.</p> <p style="text-align: center;">Photographs of liquid & Solid waste feeding system</p> <div style="display: flex; justify-content: space-around;">   </div> |
| (xxi) | The proponent shall examine and prepare a plan for utilization of high calorific waste such as chemical waste, distillation residues, refuse derived fuels, etc as alternate fuels based on availability and composition. For this, the proponent shall identify suitable industries with such waste and enter into an MOU for long-term utilization of such waste as per the Environment (protection) Rules, 1986 and with necessary approvals. | <p>Complying with.</p> <p>We are having various hazardous waste / other waste permissions from CPCB / RSPCB to use as Alternative fuel & raw materials (AFR) in cement plant.</p> <p>Hazardous & others waste is being co-processed as AFR. total 1,08,214.54 MT waste material co-processed as AFR & alternative raw material in FY 2021-22.</p> |
| (xxii) | Efforts shall be made to use the high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly. The PP shall enter into an MOU with units with potential for generating hazardous waste and in accordance with Hazardous Waste Regulation and prior approval of the | <p>Complying with.</p> <p>We are using various type of hazardous waste / other waste in kiln, and ARM in cement manufacturing with due permission obtained from CPCB / RSPCB.</p> |

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| | MPPCB. | |
| (xxiii) | Green belt over 33% of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area and along road sides etc. by planting native and broad leaved species in consultation with local DFO, local community and as per the CPCB guidelines. | <p>Complying with.</p> <ul style="list-style-type: none"> • Total area of Plant = 126.95 ha. • Green belt in plant area = 41.89 ha. • Total nos. of tree in plant up to March 2021 = 155401 nos. (survival rate 88 %) • Total area of colony = 22.47 ha. • Green belt in colony = 7.44 ha. • Total nos. of tree in colony up to March 2021= 27401 nos. (survival rate 88%) • Total survived plantation up to March 2021 including plant & colony = 182802 nos. • Total nos. of saplings planted in plant in FY 2021-22 = 11425 nos. • Total nos. of sapling planted in colony in FY 2021-22 = 1830 nos. <p style="text-align: center;">Photographs of Plantation</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around;">   </div> |
| (xxiv) | The project proponent shall provide for solar light system for all common areas, street light, village and parking around project area and maintain the same regularly. | <p>Complying with.</p> <p>The power plant of 7.0 MW has installed in plant and also solar light system installed as per feasibility of area like street, parking area & mine office roof top area etc.</p> |

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| (xxv) | The project proponent shall provide for LED light in their offices and residential areas. | <p>Complied.</p> <p>We have replaced existing light in the offices and residential areas by LED light.</p> |
| (xxvi) | All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented. | <p>Complying with.</p> <p>All recommendations made in the Charter on Corporate responsibility for Environment protection (CREP) for the Cement plant & Captive power plant.</p> <ol style="list-style-type: none"> 1. All material belt conveyors are covered with metal sheet. 2. All road in cement plant are paved & cleaning by vacuum sweeping machine for minimize the fugitive dust emission. 3. High efficient bag filters install at all material transfer point. 4. All raw materials stored in covered storage yard & intermediate, finish product stored in silos. 5. Bag house at Raw mill & Kiln, Coal Mill, Cement Mill etc. stack to maintain particular matter emission level of <30 mg/Nm³. 6. Fly ash unloading through pneumatic system. 7. Water spraying system installed at source of fugitive dust emission points. 8. ESP's installed at cooler & Boiler stack. |
| (xxvii) | At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and items-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of | <p>Agreed & complied.</p> |

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| | the proponent, representatives of village Panchayat and District Administration. Action taken report in this regards shall be submitted to the Ministry's Regional Office. | |
| (xxviii) | In addition to the above provision of ESC, the proponent shall prepare a detailed CSR Plan for the next 5 years including annual physical and financial targets for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Skill Development and infrastructure etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company. | Agreed & complied. |
| (xxix) | A risk Assessment Study and Disaster Preparedness and Management Plan along with the mitigation measures shall be prepared with a focus of Disaster Prevention and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of Environment Clearance letter. | Complying with. we are having the onsite emergency plan with respect to following objectives. <ul style="list-style-type: none"> • To overcome any emergency in its initial stage and to handle Disaster in most effective manner. • To eliminate any chance of loss to Human Life. • To minimise loss of Property in the Plant and surrounding areas. • To maintain essential supplies at the time of natural Calamities and / or Public disturbances. • Approved On-Site Emergency Plan has been submitted at concern offices. |
| (xxx) | To educate the workers, all the work places where dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects. | We have displayed Environment health & safety slogan / messages in the existing Plant premises to spread the awareness with respect to hazard and the associated health effects. |
| (xxxi) | Provision shall be made for the housing of construction labour within the site with all necessary | All necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking |

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| | infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. | water, medical health care, crèche etc. has provided during the construction period. |
| GENERAL CONDITIONS | | |
| (i) | The Project authorities must strictly adhere to the stipulation made by the Rajasthan Pollution Control Board and the State Government. | Complying with. Consent to Operate have been granted for Cement Plant L-1, L-2, L-3, Power Plant, WHRS & Residential township by Rajasthan State Pollution Board, Jaipur & Comply all conditions regularly. |
| (ii) | No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC). | Complying with, Prior approval of the Ministry of Environment, Forest & Climate Change (MoEF&CC) will be obtained for expansion or modification in the plant, if any. |
| (iii) | At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipate in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB/CPCB once in Six months. | Complying with, installed 4 ambient air monitoring stations for PM ₁₀ , PM _{2.5} , SO ₂ & NO _x in consultation with the State Pollution Control Board and monitoring data is being regular submitted to the Ministry and its regional office at Lucknow and the SPCB/CPCB. Monitoring report of stack emission enclosed as above Annexure-1 & ambient air quality enclosed as above Annexure-2 . |
| (iv) | Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose. | There is no waste water discharge from cement plant hence 'Zero discharge' facility adopted and waste water from CPP & WHR after treatment are reuse for dust suppression and machineries cooling in the cement plant. |


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| (v) | The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (daytime) and 70 dBA (night time). | <p>Complying with.</p> <p>Silencer, acoustic hoods, enclosures etc. are provided at noise generation point and PPEs provided to respective workmen. Noise monitoring report of ambient air mention below table:</p> <table><tr><th rowspan="3">Month</th><th colspan="8">Oct-21 to Mar-22</th></tr><tr><th colspan="2">Near Time office</th><th colspan="2">Near Thermal Power Plant</th><th colspan="2">Near Factory Gate</th><th colspan="2">Near Colony Gate</th></tr><tr><th>Day</th><th>Night</th><th>Day</th><th>Night</th><th>Day</th><th>Night</th><th>Day</th><th>Night</th></tr><tr><td>Oct-21</td><td>60.3</td><td>49.7</td><td>61.4</td><td>47.4</td><td>63.9</td><td>51.1</td><td>58.3</td><td>45.6</td></tr><tr><td>Nov-21</td><td>62.2</td><td>50.7</td><td>63.4</td><td>48.7</td><td>61.4</td><td>50.3</td><td>61.7</td><td>46.8</td></tr><tr><td>Dec-21</td><td>59.8</td><td>45.1</td><td>61.7</td><td>50.6</td><td>60.8</td><td>49.7</td><td>57.6</td><td>43.2</td></tr><tr><td>Jan-22</td><td>63.8</td><td>46.6</td><td>64.1</td><td>51.3</td><td>69.2</td><td>53.4</td><td>65.7</td><td>52.9</td></tr><tr><td>Feb-22</td><td>56.8</td><td>42.3</td><td>58.4</td><td>49.1</td><td>62.6</td><td>49.9</td><td>62.8</td><td>50.6</td></tr><tr><td>Mar-22</td><td>59.7</td><td>45.1</td><td>56.7</td><td>46.8</td><td>66.8</td><td>53.7</td><td>61.3</td><td>49.2</td></tr></table> <p>Noise level monitoring report by NABL accredited lab for the period of Oct-21 to Mar-22 are enclosed as Annexure-6.</p> | Month | Oct-21 to Mar-22 | | | | | | | | Near Time office | | Near Thermal Power Plant | | Near Factory Gate | | Near Colony Gate | | Day | Night | Day | Night | Day | Night | Day | Night | Oct-21 | 60.3 | 49.7 | 61.4 | 47.4 | 63.9 | 51.1 | 58.3 | 45.6 | Nov-21 | 62.2 | 50.7 | 63.4 | 48.7 | 61.4 | 50.3 | 61.7 | 46.8 | Dec-21 | 59.8 | 45.1 | 61.7 | 50.6 | 60.8 | 49.7 | 57.6 | 43.2 | Jan-22 | 63.8 | 46.6 | 64.1 | 51.3 | 69.2 | 53.4 | 65.7 | 52.9 | Feb-22 | 56.8 | 42.3 | 58.4 | 49.1 | 62.6 | 49.9 | 62.8 | 50.6 | Mar-22 | 59.7 | 45.1 | 56.7 | 46.8 | 66.8 | 53.7 | 61.3 | 49.2 |
|--------|---|---|-------|--------------------------|--------------------------|-------------------|-------------------|------------------|---|----------------------------|---------|------------------|--|--------------------------|--|-------------------|--|------------------|--|-----|-------|-----|-------|-----|-------|-----|-------|--------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|--------|------|------|------|------|------|------|------|------|
| Month | Oct-21 to Mar-22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Near Time office | | | Near Thermal Power Plant | | Near Factory Gate | | Near Colony Gate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Day | Night | Day | Night | Day | Night | Day | Night | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oct-21 | 60.3 | 49.7 | 61.4 | 47.4 | 63.9 | 51.1 | 58.3 | 45.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nov-21 | 62.2 | 50.7 | 63.4 | 48.7 | 61.4 | 50.3 | 61.7 | 46.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dec-21 | 59.8 | 45.1 | 61.7 | 50.6 | 60.8 | 49.7 | 57.6 | 43.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan-22 | 63.8 | 46.6 | 64.1 | 51.3 | 69.2 | 53.4 | 65.7 | 52.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feb-22 | 56.8 | 42.3 | 58.4 | 49.1 | 62.6 | 49.9 | 62.8 | 50.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mar-22 | 59.7 | 45.1 | 56.7 | 46.8 | 66.8 | 53.7 | 61.3 | 49.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (vi) | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. | Occupational health surveillance of the workers is being done periodically. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (vii) | The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table. | Complying, we have already developed 16 nos. of injection well and 1 recharge pond in the cement plant & colony. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (viii) | The project proponent shall also comply with all the environment protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, education programmes, drinking water supply and health care etc. | <p>Complying with.</p> <p>Environment protection measures and safeguards recommended in the EIA/EMP report is adopted. We have undertaken socio – economic development under CSR activities like community development programmes, education programmes, drinking water supply and health care etc. The details of expenditure of FY 2021-22 for cement plant & associated mines are given as below:</p> <table><tr><td>S.N.</td><td>Focus Area</td><td>Amount Expenditure (Rs.)</td></tr><tr><td>1</td><td>Community Welfare</td><td>8459914</td></tr><tr><td>2</td><td>Drinking Water Arrangement</td><td>3239176</td></tr></table> | S.N. | Focus Area | Amount Expenditure (Rs.) | 1 | Community Welfare | 8459914 | 2 | Drinking Water Arrangement | 3239176 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.N. | Focus Area | Amount Expenditure (Rs.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Community Welfare | 8459914 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Drinking Water Arrangement | 3239176 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (Rajasthan)
EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.
(Period Oct'2021 to Mar'2022)

| | | | | | |
|------|---|---|--------------------------------|-------------------|--|
| | | 3 | Educational Charity | 5691903 | |
| | | 4 | Environment | 349589.6 | |
| | | 5 | Health | 400000 | |
| | | 6 | Livelihood Promotion | 1878443 | |
| | | 7 | Sanitation | 97000 | |
| | | 8 | Infrastructure Development | 5424706 | |
| | | | Total Expenditure (Rs.) | 25540731.6 | |
| (ix) | Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Lucknow. The funds so provide shall not be diverted for any other purpose. | Complying with. Total amount Rs. 66,81,515/- spent for Environment Management including regulatory charges, environment monitoring, water charges etc in FY 2021-22. | | | |
| (x) | A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestion/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent. | Complied, A copy of Environmental clearance letter has been sent to the SDM, Nimbahera tehsil, The Sarpanch, Gram panchayat, Mangrol, DIC, Chittorgarh, Chief Executive officer Zila parishad, Chittorgarh The District Magistrate, Chittorgarh on dated 19.09.2016 The clearance letter has uploaded on the website of the company i.e. https://www.jkcement.com/environmental-compliance | | | |

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (Rajasthan)
EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.
(Period Oct'2021 to Mar'2022)

| | | |
|-------|---|---|
| (xi) | <p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Lucknow. The respective zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p> | <p>Periodical EC compliance report with monitored data are being uploaded at company website and same sent to MOEF, Lucknow, Delhi, CPCB, RPCB in soft copy. The criteria pollutant level namely; PM 10, SO2, NOx (ambient levels as well as stack emissions) for is being displayed at main gate of the company for the public domain.</p>  |
| (xii) | <p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow/ CPCB/SPCB shall monitor the stipulated conditions.</p> | <p>Complying with,</p> <p>Last EC compliance report submitted vide our letter no. MGR/PC/21/C13 dated 26/11/2021 send by email for the period from Apr-2021 to Sept 2021.</p> |

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (Rajasthan)
EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.
(Period Oct'2021 to Mar'2022)

| | | |
|--------|--|---|
| (xiii) | The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Lucknow by e-mail. | The Environment Statement report of cement plant L-1,2,3, CPP 25MW, WHRS 10MW, 29.1 MW & Residential colony of FY 2020-21 has submitted vide letter no. MGR/PC/ESR/21/1264 to 1270 , Date: 17.09.2021 to the State Pollution Control Board and regional office of the MoEF& CC at Lucknow and uploaded at company website which can be assess by following link. https://www.jkcement.com/environmental-compliance |
| (xiv) | The Project Proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment, Forest and Climate Change (MoEFCC) at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are | Complied. We have published the notice that the project has been accorded environmental clearance by the Ministry of environment & Forest in two newspapers namely as followed. <i>1.</i> Dainik Bhaskar dated 17.09.2016 <i>2.</i> Rajasthan Patrika dated 17.09.2016 |
| (xv) | Widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Lucknow. | Complied. |

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (Rajasthan)

EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.

(Period Oct'2021 to Mar'2022)

| | | |
|-------|--|---------|
| (xvi) | Project authorities 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 and the date of commencing the land development work. | Agreed. |
|-------|--|---------|

Amended EC Letter from MOEF, New Delhi – J-11011/267/2013-IA.II (I), Dated 08.03.2019

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF J. K. CEMENT WORKS, MANGROL (Rajasthan)
EC letter no. J-11011/267/2013-IA. II (I) dated. 08.09.2016 & amendment dt. 08.03.2019.
(Period Oct'2021 to Mar'2022)

| S. No. | Condition | Status |
|--------|--|--|
| | <u>General Conditions</u> | |
| (ii) | <p>It is mentioned that there will be no pollution load increment due to enhancement of WHRB capacity from 20 MW to 30 MW. The following measures will be implemented to increase the waste heat recovery power generation upto 10 MW:</p> <p>Gain of 2.5 MW and 2.9 MW power generation by enhancement of boiler inlet flue temperature (from 380 480 C) by recirculation of hot air in line-2 and line respectively, i.e., total gain will be 5.4 MW.</p> <ul style="list-style-type: none"> Installing a new boiler with efficient heat recovery, as there will be higher stream recovery with temperature of 440 degree with minimization of condensing temperature, with gain of 4.6 MW. | Agreed, The Waste Heat Recovery boiler (WHRB) is eco-friendly system & there is no increase pollution load by capacity enhancement of WHRB power generation. |
| (iii) | The certified EC compliance has been obtained from Regional Office (Lucknow) of MOEF&CC vide letter no. IV/ENV/R/IND167/946/2017/732 dated 09.07.2018. | Noted , |
| (iv) | The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity. | Agreed |
| (v) | <p>The proposal was considered by the Expert Appraisal Committee (Industry – I) during its 34th meeting held on 6th to 7th August, 2018. After detailed deliberations, the committee recommended for the grant of amendment to the environmental clearance with the following conditions.</p> <ul style="list-style-type: none"> The power generation from waste heat recovery boiler shall be enhanced to 20 MW to 36 MW. The PP shall under take additional greenbelt development in 5% of the total area. The PP shall construct 5 additional rainwater recharging pits | 29.1 MW WHRS installed. |
| (vi) | The ministry considered the above recommendation of EAC and here by decided to amend the Environmental Clearance vide letter F. No. J-11011/267/2013-IAII (I) dated 08.09.2016 with the conditions as recommended by EAC in para 5 above. | Noted |
| (vii) | All other terms and conditions in the Environmental clearance vide letter F. No. J-11011/267/2013-IAII (I) dated 08.09.2016 are shall remain the same. | Noted |

ANNEXURE-1

| J.K. Cement WORKS, MANGROL (RAJ) (Unit-1) | | | | | | | | | |
|--|--|--|---|---|--|---------------------------|-----------------------------------|------------------------------|--------|
| DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE | | | | | | | | | |
| October'' 2021 - March'' 2022 | | | | | | | | | |
| DATE | NAME OF THE STACK / DUCT ATTACHED WITH UNIT AND MONTH | CROSS SECTIONAL AREA OF DUCT (M2) | STACK GASES TEMP. (⁰ K) | STACK GASES VELOCITY (M / Sec.) | FLOW OF GASES IN STACK (NM³/Sec.) | DUST CONC. (Mg/NM³) | MEAN DUST CONC. (Mg/NM³) | EMISSION RATE (Ts/DAY) | REMARK |
| | October'' 2021 | | | | | | | | |
| 01.10.2021 | KILN + RAW MILL (BH) | 5.23 | 416 | 14.64 | 54.85 | 11.7 | 10.2 | 0.055 | |
| 09.10.2021 | KILN + RAW MILL (BH) | 5.23 | 430 | 15.21 | 55.13 | 8.9 | | 0.042 | |
| 18.10.2021 | KILN + RAW MILL (BH) | 5.23 | 419 | 15.44 | 57.43 | 10.8 | | 0.054 | |
| 27.10.2021 | KILN + RAW MILL (BH) | 5.23 | 424 | 15.79 | 58.04 | 9.2 | | 0.046 | |
| | November'' 2021 | | | | | | | | |
| 05.11.2021 | KILN + RAW MILL (BH) | 5.23 | 401 | 16.43 | 63.86 | 11.7 | 9.3 | 0.065 | |
| 13.11.2021 | KILN + RAW MILL (BH) | 5.23 | 405 | 17.07 | 65.69 | 7.2 | | 0.041 | |
| 20.11.2021 | KILN + RAW MILL (BH) | 5.23 | 414 | 17.76 | 66.86 | 8.8 | | 0.051 | |
| 27.11.2021 | KILN + RAW MILL (BH) | 5.23 | 399 | 16.81 | 65.66 | 9.6 | | 0.054 | |
| | December'' 2021 | | | | | | | | |
| STOP | KILN + RAW MILL (BH) | | | STOP | | | STOP | STOP | |
| | KILN + RAW MILL (BH) | | | | | | | | |
| | KILN + RAW MILL (BH) | | | | | | | | |
| | KILN + RAW MILL (BH) | | | | | | | | |
| | January'' 2022 | | | | | | | | |
| 06.01.2022 | KILN + RAW MILL (BH) | 5.23 | 435 | 17.69 | 63.38 | 8.4 | 8.4 | 0.046 | |
| 14.01.2022 | KILN + RAW MILL (BH) | 5.23 | 416 | 16.64 | 62.34 | 12.3 | | 0.066 | |
| 22.01.2022 | KILN + RAW MILL (BH) | 5.23 | 429 | 17.33 | 62.96 | 6.4 | | 0.035 | |
| 28.01.2022 | KILN + RAW MILL (BH) | 5.23 | 425 | 17.16 | 62.93 | 10.5 | | 0.057 | |
| | February'' 2022 | | | | | | | | |
| 05.02.2022 | KILN + RAW MILL (BH) | 5.23 | 435 | 11.47 | 44.14 | 7.5 | 7.5 | 0.029 | |
| 14.02.2022 | KILN + RAW MILL (BH) | 5.23 | 416 | 11.27 | 41.72 | 10.6 | | 0.038 | |
| STOP | KILN + RAW MILL (BH) | | | STOP | | | | STOP | |
| | KILN + RAW MILL (BH) | | | | | | | | |
| | March'' 2022 | | | | | | | | |
| STOP | KILN + RAW MILL (BH) | STOP | | | | | 6.9 | STOP | |
| 12.03.2022 | KILN + RAW MILL (BH) | 5.23 | 416 | 14.18 | 53.13 | 6.9 | | 0.032 | |
| 21.03.2022 | KILN + RAW MILL (BH) | 5.23 | 401 | 13.00 | 50.53 | 9.3 | | 0.041 | |
| 30.03.2022 | KILN + RAW MILL (BH) | 5.23 | 395 | 14.42 | 56.90 | 8.4 | | 0.041 | |

| | | | | | | | | | | | | | | |
|------------|----------------------|------|-----|-------|--------|------|------|-------|-----|-------|-------|------|-------|--|
| | October'' 2021 | | | | | | | | | | | | | |
| 01.10.2021 | CLINKER COOLER (ESP) | 7.07 | 392 | 12.74 | 88.88 | 19.0 | 15.1 | 0.146 | | | | | | |
| 09.10.2021 | CLINKER COOLER (ESP) | 7.07 | 397 | 13.12 | 90.04 | 10.9 | | 0.085 | | | | | | |
| 18.10.2021 | CLINKER COOLER (ESP) | 7.07 | 381 | 12.26 | 84.69 | 16.7 | | 0.122 | | | | | | |
| 27.10.2021 | CLINKER COOLER (ESP) | 7.07 | 387 | 12.78 | 87.99 | 13.7 | | 0.104 | | | | | | |
| | | | | | | | | | | | | | | |
| | November'' 2021 | | | | | | | | | | | | | |
| 06.11.2021 | CLINKER COOLER (ESP) | 7.07 | 391 | 15.89 | 111.97 | 8.2 | 14.6 | 0.079 | | | | | | |
| 15.11.2021 | CLINKER COOLER (ESP) | 7.07 | 396 | 15.26 | 106.46 | 20.5 | | 0.189 | | | | | | |
| 23.11.2021 | CLINKER COOLER (ESP) | 7.07 | 375 | 15.04 | 105.27 | 17.3 | | 0.157 | | | | | | |
| 30.11.2021 | CLINKER COOLER (ESP) | 7.07 | 371 | 15.30 | 106.04 | 12.3 | | 0.113 | | | | | | |
| | | | | | | | | | | | | | | |
| | December'' 2021 | | | | | | | | | | | | | |
| STOP | CLINKER COOLER (ESP) | STOP | | | | | STOP | STOP | | | | | | |
| | CLINKER COOLER (ESP) | | | | | | | | | | | | | |
| | CLINKER COOLER (ESP) | | | | | | | | | | | | | |
| | CLINKER COOLER (ESP) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | January'' 2022 | | | | | | | | | | | | | |
| 06.01.2022 | CLINKER COOLER (ESP) | 7.07 | 399 | 15.57 | 114.30 | 14.0 | 10.7 | 0.138 | | | | | | |
| 14.01.2022 | CLINKER COOLER (ESP) | 7.07 | 404 | 15.26 | 110.11 | 10.7 | | 0.102 | | | | | | |
| 22.01.2022 | CLINKER COOLER (ESP) | 7.07 | 427 | 16.41 | 121.31 | 8.4 | | 0.088 | | | | | | |
| 28.01.2022 | CLINKER COOLER (ESP) | 7.07 | 429 | 15.88 | 115.77 | 12.3 | | 0.123 | | | | | | |
| | | | | | | | | | | | | | | |
| | February'' 2022 | | | | | | | | | | | | | |
| 05.02.2022 | CLINKER COOLER (ESP) | 7.07 | 390 | 12.47 | 45.71 | 11.2 | 8.4 | 0.044 | | | | | | |
| 14.02.2022 | CLINKER COOLER (ESP) | 7.07 | 400 | 16.08 | 47.53 | 10.1 | | 0.041 | | | | | | |
| STOP | CLINKER COOLER (ESP) | STOP | | | | | | STOP | | | | | | |
| | CLINKER COOLER (ESP) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | March'' 2022 | | | | | | | | | | | | | |
| STOP | CLINKER COOLER (ESP) | STOP | | | | | 9.2 | STOP | | | | | | |
| 12.03.2022 | CLINKER COOLER (ESP) | | | | | | | 7.07 | 392 | 13.15 | 93.28 | 9.4 | 0.076 | |
| 21.03.2022 | CLINKER COOLER (ESP) | | | | | | | 7.07 | 405 | 13.77 | 99.02 | 10.3 | 0.088 | |
| 30.03.2022 | CLINKER COOLER (ESP) | | | | | | | 7.07 | 377 | 12.61 | 88.26 | 7.9 | 0.060 | |
| | | | | | | | | | | | | | | |

[illegible]

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|------|--------------------------|-----------------------|--|--|--|--|--|--|--|
| | October" 2021 | | | | | | | | |
| STOP | CEMENT MILL No.-1 (B.F.) | Mill Not in operation | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | | | | | | | | | |
| | November" 2021 | | | | | | | | |
| STOP | CEMENT MILL No.-1 (B.F.) | Mill Not in operation | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | | | | | | | | | |
| | Decmber" 2021 | | | | | | | | |
| STOP | CEMENT MILL No.-1 (B.F.) | Mill Not in operation | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | | | | | | | | | |
| | January" 2022 | | | | | | | | |
| STOP | CEMENT MILL No.-1 (B.F.) | Mill Not in operation | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | | | | | | | | | |
| | February" 2022 | | | | | | | | |
| STOP | CEMENT MILL No.-1 (B.F.) | Mill Not in operation | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | | | | | | | | | |
| | March" 2022 | | | | | | | | |
| STOP | CEMENT MILL No.-1 (B.F.) | Mill Not in operation | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
| | CEMENT MILL No.-1 (B.F.) | | | | | | | | |
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|------------|----------------|------|-----|-------|------|------|------|-------|-----|-------|------|-----|-------|--|
| | October" 2021 | | | | | | | | | | | | | |
| 01.10.2021 | Crusher (B.F.) | 0.38 | 327 | 10.06 | 3.48 | 16.9 | 13.1 | 0.005 | | | | | | |
| 12.10.2021 | Crusher (B.F.) | 0.38 | 331 | 9.34 | 3.20 | 9.9 | | 0.003 | | | | | | |
| 22.10.2021 | Crusher (B.F.) | 0.38 | 334 | 10.59 | 3.59 | 14.2 | | 0.004 | | | | | | |
| 29.10.2021 | Crusher (B.F.) | 0.38 | 325 | 9.77 | 3.40 | 11.3 | | 0.003 | | | | | | |
| | | | | | | | | | | | | | | |
| | November" 2021 | | | | | | | | | | | | | |
| 02.11.2021 | Crusher (B.F.) | 0.38 | 323 | 10.77 | 3.78 | 13.7 | 10.3 | 0.004 | | | | | | |
| 09.11.2021 | Crusher (B.F.) | 0.38 | 321 | 10.39 | 3.67 | 7.1 | | 0.002 | | | | | | |
| 22.11.2021 | Crusher (B.F.) | 0.38 | 335 | 10.49 | 3.55 | 11.4 | | 0.003 | | | | | | |
| 30.11.2021 | Crusher (B.F.) | 0.38 | 333 | 10.87 | 3.70 | 9.1 | | 0.003 | | | | | | |
| | | | | | | | | | | | | | | |
| | Decmber" 2021 | | | | | | | | | | | | | |
| STOP | Crusher (B.F.) | STOP | | | | | STOP | STOP | | | | | | |
| | Crusher (B.F.) | | | | | | | | | | | | | |
| | Crusher (B.F.) | | | | | | | | | | | | | |
| | Crusher (B.F.) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | January" 2022 | | | | | | | | | | | | | |
| 01.01.2022 | Crusher (B.F.) | 0.38 | 324 | 11.29 | 3.95 | 13.6 | 9.9 | 0.005 | | | | | | |
| 13.01.2022 | Crusher (B.F.) | 0.38 | 335 | 12.02 | 4.06 | 7.6 | | 0.003 | | | | | | |
| 22.01.2022 | Crusher (B.F.) | 0.38 | 330 | 11.72 | 4.02 | 11.2 | | 0.004 | | | | | | |
| 29.01.2022 | Crusher (B.F.) | 0.38 | 332 | 13.18 | 4.50 | 6.1 | | 0.002 | | | | | | |
| | | | | | | | | | | | | | | |
| | February" 2022 | | | | | | | | | | | | | |
| 07.02.2022 | Crusher (B.F.) | 0.38 | 332 | 12.49 | 4.26 | 8.1 | 8.1 | 0.003 | | | | | | |
| 15.02.2022 | Crusher (B.F.) | 0.38 | 337 | 12.88 | 4.33 | 11.1 | | 0.004 | | | | | | |
| STOP | Crusher (B.F.) | STOP | | | | | | STOP | | | | | | |
| | Crusher (B.F.) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | March" 2022 | | | | | | | | | | | | | |
| STOP | Crusher (B.F.) | STOP | | | | | 7.4 | STOP | | | | | | |
| 12.03.2022 | Crusher (B.F.) | | | | | | | 0.38 | 336 | 12.81 | 4.32 | 9.8 | 0.004 | |
| 22.03.2022 | Crusher (B.F.) | | | | | | | 0.38 | 326 | 11.91 | 4.14 | 6.4 | 0.002 | |
| 29.03.2022 | Crusher (B.F.) | | | | | | | 0.38 | 331 | 12.62 | 4.32 | 7.4 | 0.003 | |

J.K. Cement WORKS, MANGROL (RAJ) (Unit-2)

October" 2021 - March" 2022[illegible]

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|------------|----------------------|------|--------|-------|--------|------|-------|-------|--|
| | October" 2021 | | | | | | | | |
| STOP | CLINKER COOLER (ESP) | STOP | | | | | 6.6 | STOP | |
| 12.10.2021 | CLINKER COOLER (ESP) | 8.80 | 392.00 | 15.08 | 130.08 | 13.1 | | 0.147 | |
| 23.10.2021 | CLINKER COOLER (ESP) | 8.80 | 400.00 | 15.58 | 132.22 | 6.6 | | 0.075 | |
| 27.10.2021 | CLINKER COOLER (ESP) | 8.80 | 397.00 | 15.28 | 132.25 | 8.2 | | 0.094 | |
| | | | | | | | | | |
| | November" 2021 | | | | | | 7.3 | | |
| 01.11.2021 | CLINKER COOLER (ESP) | 8.80 | 380 | 16.43 | 142.67 | 9.50 | | 0.117 | |
| 16.11.2021 | CLINKER COOLER (ESP) | 8.80 | 371.00 | 15.61 | 134.66 | 8.3 | | 0.097 | |
| 23.11.2021 | CLINKER COOLER (ESP) | 8.80 | 385.00 | 15.62 | 133.86 | 7.3 | | 0.084 | |
| 30.11.2021 | CLINKER COOLER (ESP) | 8.80 | 383.00 | 16.09 | 138.80 | 9.3 | 0.112 | | |
| | | | | | | | | | |
| | December" 2021 | | | | | | 8.1 | | |
| 06.12.2021 | CLINKER COOLER (ESP) | 8.80 | 380.00 | 13.84 | 120.18 | 11.2 | | 0.116 | |
| 13.12.2021 | CLINKER COOLER (ESP) | 8.80 | 371.00 | 14.38 | 124.05 | 8.1 | | 0.087 | |
| 21.12.2021 | CLINKER COOLER (ESP) | 8.80 | 385.00 | 14.24 | 127.45 | 10.0 | | 0.110 | |
| 28.12.2021 | CLINKER COOLER (ESP) | 8.80 | 378.00 | 14.42 | 129.95 | 9.7 | 0.109 | | |
| | | | | | | | | | |
| | January" 2022 | | | | | | 6.3 | | |
| 03.01.2022 | CLINKER COOLER (ESP) | 8.80 | 394.00 | 13.66 | 118.62 | 11.6 | | 0.119 | |
| 14.01.2022 | CLINKER COOLER (ESP) | 8.80 | 402.00 | 14.82 | 127.84 | 6.3 | | 0.070 | |
| 20.01.2022 | CLINKER COOLER (ESP) | 8.80 | 390.00 | 13.86 | 126.20 | 10.3 | | 0.112 | |
| 29.01.2022 | CLINKER COOLER (ESP) | 8.80 | 392.00 | 14.53 | 133.70 | 8.7 | 0.100 | | |
| | | | | | | | | | |
| | February" 2022 | | | | | | 5.9 | | |
| 05.02.2022 | CLINKER COOLER (ESP) | 8.80 | 377 | 14.30 | 124.17 | 12.6 | | 0.135 | |
| 14.02.2022 | CLINKER COOLER (ESP) | 8.80 | 368.00 | 14.85 | 128.10 | 5.9 | | 0.065 | |
| 21.02.2022 | CLINKER COOLER (ESP) | 8.80 | 391.00 | 14.04 | 128.74 | 10.3 | | 0.115 | |
| 28.02.2022 | CLINKER COOLER (ESP) | 8.80 | 382.00 | 14.14 | 128.75 | 11.4 | 0.127 | | |
| | | | | | | | | | |
| | March" 2022 | | | | | | 6.7 | | |
| 04.03.2022 | CLINKER COOLER (ESP) | 8.80 | 386.00 | 11.45 | 99.43 | 12.1 | | 0.104 | |
| 14.03.2022 | CLINKER COOLER (ESP) | 8.80 | 397.00 | 11.74 | 101.27 | 6.7 | | 0.059 | |
| 22.03.2022 | CLINKER COOLER (ESP) | 8.80 | 382.00 | 12.43 | 107.23 | 14.8 | | 0.137 | |
| 30.03.2022 | CLINKER COOLER (ESP) | 8.80 | 411.00 | 11.34 | 100.13 | 10.8 | 0.093 | | |
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|------------|-----------------------|------|--------|-------|-------|-------|------|-------|--|
| | October" 2021 | | | | | | | | |
| STOP | COAL MILL (B.F.) | | | STOP | | | | STOP | |
| 12.10.2021 | COAL MILL (B.F.) | 2.00 | 351.00 | 14.37 | 28.17 | 17.1 | 13.4 | 0.042 | |
| 23.10.2021 | COAL MILL (B.F.) | 2.00 | 346.00 | 14.49 | 28.31 | 10.0 | | 0.024 | |
| 27.10.2021 | COAL MILL (B.F.) | 2.00 | 359.00 | 15.13 | 29.76 | 13.2 | | 0.034 | |
| | | | | | | | | | |
| | November" 2021 | | | | | | | | |
| 02.11.2021 | COAL MILL (B.F.) | 2.00 | 358 | 13.98 | 27.59 | 16.10 | 10.6 | 0.038 | |
| 13.11.2021 | COAL MILL (B.F.) | 2.00 | 363.00 | 13.66 | 26.78 | 10.6 | | 0.025 | |
| 20.11.2021 | COAL MILL (B.F.) | 2.00 | 350.00 | 14.21 | 27.68 | 15.7 | | 0.038 | |
| 29.11.2021 | COAL MILL (B.F.) | 2.00 | 357.00 | 13.91 | 27.73 | 13.7 | | 0.033 | |
| | | | | | | | | | |
| | December" 2021 | | | | | | | | |
| 06.12.2021 | COAL MILL (B.F.) | 2.00 | 342.00 | 12.20 | 24.08 | 12.1 | 9.3 | 0.025 | |
| 13.12.2021 | COAL MILL (B.F.) | 2.00 | 350.00 | 11.96 | 23.45 | 10.8 | | 0.022 | |
| 21.12.2021 | COAL MILL (B.F.) | 2.00 | 356.00 | 12.93 | 26.03 | 14.3 | | 0.032 | |
| 28.12.2021 | COAL MILL (B.F.) | 2.00 | 367.00 | 12.80 | 25.60 | 9.3 | | 0.021 | |
| | | | | | | | | | |
| | January" 2022 | | | | | | | | |
| 03.01.2022 | COAL MILL (B.F.) | 2.00 | 338.00 | 12.60 | 24.87 | 15.3 | 11.9 | 0.033 | |
| 14.01.2022 | COAL MILL (B.F.) | 2.00 | 344.00 | 13.37 | 26.21 | 8.4 | | 0.019 | |
| 20.01.2022 | COAL MILL (B.F.) | 2.00 | 330.00 | 12.24 | 25.24 | 11.1 | | 0.024 | |
| 29.01.2022 | COAL MILL (B.F.) | 2.00 | 335.00 | 11.70 | 24.30 | 12.6 | | 0.026 | |
| | | | | | | | | | |
| | February" 2022 | | | | | | | | |
| 05.02.2022 | COAL MILL (B.F.) | 2.00 | 340.00 | 12.17 | 24.02 | 14.6 | 14.7 | 0.030 | |
| 14.02.2022 | COAL MILL (B.F.) | 2.00 | 355.00 | 12.04 | 23.60 | 13.4 | | 0.027 | |
| 21.02.2022 | COAL MILL (B.F.) | 2.00 | 351.00 | 12.84 | 26.12 | 18.9 | | 0.043 | |
| 28.02.2022 | COAL MILL (B.F.) | 2.00 | 346.00 | 12.43 | 25.55 | 11.8 | | 0.026 | |
| | | | | | | | | | |
| | March" 2022 | | | | | | | | |
| 04.03.2022 | COAL MILL (B.F.) | 2.00 | 349.00 | 10.06 | 19.85 | 19.7 | 15.2 | 0.034 | |
| 14.03.2022 | COAL MILL (B.F.) | 2.00 | 355.00 | 9.67 | 18.96 | 11.8 | | 0.019 | |
| 22.03.2022 | COAL MILL (B.F.) | 2.00 | 362.00 | 11.40 | 22.95 | 16.3 | | 0.032 | |
| 30.03.2022 | COAL MILL (B.F.) | 2.00 | 360.00 | 10.62 | 21.03 | 12.9 | | 0.023 | |

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| | October" 2021 | | | | | | | |
| STOP | CRUSHER BAG FILTER | | | STOP | | | STOP | |
| 11.10.2021 | CRUSHER BAG FILTER | 1.23 | 324.00 | 12.03 | 14.50 | 14.9 | 11.9 | 0.019 |
| 21.10.2021 | CRUSHER BAG FILTER | 1.23 | 330.00 | 12.50 | 15.07 | 8.9 | | 0.012 |
| 29.10.2021 | CRUSHER BAG FILTER | 1.23 | 323.00 | 12.22 | 14.69 | 11.8 | | 0.015 |
| | | | | | | | | |
| | November" 2021 | | | | | | | |
| 06.11.2021 | CRUSHER BAG FILTER | 1.23 | 327 | 12.34 | 14.98 | 8.90 | 10.1 | 0.012 |
| 16.11.2021 | CRUSHER BAG FILTER | 1.23 | 327.00 | 12.24 | 14.76 | 10.5 | | 0.013 |
| 20.11.2021 | CRUSHER BAG FILTER | 1.23 | 329.00 | 12.07 | 14.60 | 13.4 | | 0.017 |
| 30.11.2021 | CRUSHER BAG FILTER | 1.23 | 328.00 | 12.81 | 15.60 | 7.6 | | 0.010 |
| | | | | | | | | |
| | December" 2021 | | | | | | | |
| 07.12.2021 | CRUSHER BAG FILTER | 1.23 | 346.00 | 13.98 | 16.97 | 11.2 | 9.7 | 0.016 |
| 14.12.2021 | CRUSHER BAG FILTER | 1.23 | 354.00 | 13.46 | 16.23 | 17.6 | | 0.025 |
| 21.12.2021 | CRUSHER BAG FILTER | 1.23 | 349.00 | 14.23 | 17.86 | 14.2 | | 0.022 |
| 30.12.2021 | CRUSHER BAG FILTER | 1.23 | 359.00 | 14.15 | 17.58 | 8.2 | | 0.012 |
| | | | | | | | | |
| | January" 2022 | | | | | | | |
| 04.01.2022 | CRUSHER BAG FILTER | 1.23 | 359.00 | 15.53 | 18.85 | 8.6 | 8.6 | 0.014 |
| 11.01.2022 | CRUSHER BAG FILTER | 1.23 | 355.00 | 15.13 | 18.24 | 10.3 | | 0.016 |
| 24.01.2022 | CRUSHER BAG FILTER | 1.23 | 367.00 | 15.79 | 19.96 | 12.3 | | 0.021 |
| 29.01.2022 | CRUSHER BAG FILTER | 1.23 | 369.00 | 15.52 | 19.96 | 7.8 | | 0.013 |
| | | | | | | | | |
| | February" 2022 | | | | | | | |
| 01.02.2022 | CRUSHER BAG FILTER | 1.23 | 341 | 13.31 | 16.15 | 8.80 | 7.3 | 0.012 |
| 10.02.2022 | CRUSHER BAG FILTER | 1.23 | 349.00 | 13.11 | 15.81 | 11.2 | | 0.015 |
| 18.02.2022 | CRUSHER BAG FILTER | 1.23 | 346.00 | 12.80 | 16.23 | 10.2 | | 0.014 |
| 26.02.2022 | CRUSHER BAG FILTER | 1.23 | 357.00 | 14.16 | 18.15 | 7.3 | | 0.011 |
| | | | | | | | | |
| | March" 2022 | | | | | | | |
| 01.03.2022 | CRUSHER BAG FILTER | 1.23 | 335.00 | 11.48 | 13.93 | 7.6 | 9.1 | 0.009 |
| 08.03.2022 | CRUSHER BAG FILTER | 1.23 | 342.00 | 11.25 | 13.56 | 10.3 | | 0.012 |
| 15.03.2022 | CRUSHER BAG FILTER | 1.23 | 330.00 | 10.41 | 12.89 | 9.7 | | 0.011 |
| 24.03.2022 | CRUSHER BAG FILTER | 1.23 | 327.00 | 11.88 | 14.32 | 8.8 | | 0.011 |
| | | | | | | | | |

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|------------|-----------------------|-------|--------|-------|-------|------|-------------|-------|
| | October" 2021 | | | | | | | |
| 01.10.2021 | PACKER -1 BAG FILTER | 0.785 | 326.00 | 11.86 | 9.13 | 12.8 | 12.1 | 0.010 |
| 12.10.2021 | PACKER -1 BAG FILTER | 0.785 | 332.00 | 12.69 | 9.70 | 8.3 | | 0.007 |
| 20.10.2021 | PACKER -1 BAG FILTER | 0.785 | 336.00 | 12.46 | 9.43 | 16.9 | | 0.014 |
| 29.10.2021 | PACKER -1 BAG FILTER | 0.785 | 330.00 | 12.75 | 9.72 | 10.5 | | 0.009 |
| | | | | | | | | |
| | November" 2021 | | | | | | | |
| 03.11.2021 | PACKER -1 BAG FILTER | 0.785 | 332.00 | 12.69 | 9.77 | 14.6 | 10.7 | 0.012 |
| 16.11.2021 | PACKER -1 BAG FILTER | 0.785 | 325.00 | 12.80 | 9.98 | 7.9 | | 0.007 |
| 24.11.2021 | PACKER -1 BAG FILTER | 0.785 | 329.00 | 12.58 | 9.84 | 9.5 | | 0.008 |
| 29.11.2021 | PACKER -1 BAG FILTER | 0.785 | 324.00 | 13.16 | 10.19 | 10.7 | | 0.009 |
| | | | | | | | | |
| | December" 2021 | | | | | | | |
| 06.12.2021 | PACKER -1 BAG FILTER | 0.785 | 325.00 | 12.25 | 9.65 | 19.1 | 15.7 | 0.015 |
| 14.12.2021 | PACKER -1 BAG FILTER | 0.785 | 336.00 | 13.16 | 10.44 | 16.2 | | 0.010 |
| 21.12.2021 | PACKER -1 BAG FILTER | 0.785 | 332.00 | 12.79 | 10.11 | 16.4 | | 0.011 |
| 30.12.2021 | PACKER -1 BAG FILTER | 0.785 | 339.00 | 12.77 | 10.27 | 11.1 | | 0.007 |
| | | | | | | | | |
| | January" 2022 | | | | | | | |
| 03.01.2022 | PACKER -1 BAG FILTER | 0.785 | 332.00 | 10.62 | 8.72 | 9.2 | 8.4 | 0.007 |
| 10.01.2022 | PACKER -1 BAG FILTER | 0.785 | 339.00 | 10.30 | 8.28 | 11.1 | | 0.008 |
| 22.01.2022 | PACKER -1 BAG FILTER | 0.785 | 325.00 | 10.63 | 8.66 | 13.6 | | 0.010 |
| 29.01.2022 | PACKER -1 BAG FILTER | 0.785 | 341.00 | 9.95 | 8.03 | 7.5 | | 0.005 |
| | | | | | | | | |
| | February" 2022 | | | | | | | |
| 03.02.2022 | PACKER -1 BAG FILTER | 0.785 | 336.00 | 12.61 | 10.31 | 17.0 | 11.7 | 0.011 |
| 11.02.2022 | PACKER -1 BAG FILTER | 0.785 | 327.00 | 12.54 | 10.12 | 12.0 | | 0.009 |
| 17.02.2022 | PACKER -1 BAG FILTER | 0.785 | 332.00 | 13.46 | 10.78 | 10.9 | | 0.010 |
| 26.02.2022 | PACKER -1 BAG FILTER | 0.785 | 325.00 | 12.10 | 9.93 | 6.9 | | 0.007 |
| | | | | | | | | |
| | March" 2022 | | | | | | | |
| 01.03.2022 | PACKER -1 BAG FILTER | 0.785 | 333.00 | 11.61 | 8.99 | 12.6 | 10.2 | 0.010 |
| 09.03.2022 | PACKER -1 BAG FILTER | 0.785 | 340.00 | 12.00 | 9.45 | 9.4 | | 0.008 |
| 21.03.2022 | PACKER -1 BAG FILTER | 0.785 | 332.00 | 12.49 | 9.71 | 11.0 | | 0.009 |
| 30.03.2022 | PACKER -1 BAG FILTER | 0.785 | 345.00 | 13.87 | 10.85 | 7.9 | | 0.007 |
| | | | | | | | | |

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|------------|-----------------------|-------|--------|-------|-------|------|-------------|-------|
| | October" 2021 | | | | | | | |
| 01.10.2021 | PACKER -2 BAG FILTER | 0.785 | 324.00 | 11.82 | 9.04 | 18.8 | 14.3 | 0.015 |
| 14.10.2021 | PACKER -2 BAG FILTER | 0.785 | 335.00 | 11.75 | 8.92 | 8.8 | | 0.007 |
| 21.10.2021 | PACKER -2 BAG FILTER | 0.785 | 331.00 | 12.16 | 9.21 | 16.6 | | 0.013 |
| 27.10.2021 | PACKER -2 BAG FILTER | 0.785 | 342.00 | 12.67 | 9.75 | 12.9 | | 0.011 |
| | | | | | | | | |
| | November" 2021 | | | | | | | |
| 06.11.2021 | PACKER -2 BAG FILTER | 0.785 | 330.00 | 13.14 | 10.08 | 9.4 | 13.1 | 0.008 |
| 15.11.2021 | PACKER -2 BAG FILTER | 0.785 | 324.00 | 12.97 | 9.98 | 16.3 | | 0.014 |
| 22.11.2021 | PACKER -2 BAG FILTER | 0.785 | 333.00 | 12.40 | 9.45 | 15.1 | | 0.012 |
| 30.11.2021 | PACKER -2 BAG FILTER | 0.785 | 332.00 | 12.94 | 9.89 | 11.5 | | 0.010 |
| | | | | | | | | |
| | December" 2021 | | | | | | | |
| 06.12.2021 | PACKER -2 BAG FILTER | 0.785 | 325.00 | 12.25 | 9.65 | 12.5 | 11.8 | 0.010 |
| 14.12.2021 | PACKER -2 BAG FILTER | 0.785 | 336.00 | 13.16 | 10.44 | 8.3 | | 0.007 |
| 21.12.2021 | PACKER -2 BAG FILTER | 0.785 | 332.00 | 12.79 | 10.11 | 15.2 | | 0.013 |
| 30.12.2021 | PACKER -2 BAG FILTER | 0.785 | 339.00 | 12.77 | 10.27 | 11.2 | | 0.010 |
| | | | | | | | | |
| | January" 2022 | | | | | | | |
| 03.01.2022 | PACKER -2 BAG FILTER | 0.785 | 327.00 | 11.88 | 9.65 | 10.4 | 6.4 | 0.009 |
| 10.01.2022 | PACKER -2 BAG FILTER | 0.785 | 334.00 | 11.35 | 9.28 | 6.4 | | 0.005 |
| 21.01.2022 | PACKER -2 BAG FILTER | 0.785 | 325.00 | 11.63 | 9.58 | 8.9 | | 0.007 |
| 28.01.2022 | PACKER -2 BAG FILTER | 0.785 | 339.00 | 12.51 | 10.02 | 9.5 | | 0.008 |
| | | | | | | | | |
| | February" 2022 | | | | | | | |
| 03.02.2022 | PACKER -2 BAG FILTER | 0.785 | 334.00 | 13.17 | 10.85 | 8.8 | 8.3 | 0.008 |
| 10.02.2022 | PACKER -2 BAG FILTER | 0.785 | 326.00 | 13.43 | 10.87 | 6.8 | | 0.006 |
| 16.02.2022 | PACKER -2 BAG FILTER | 0.785 | 329.00 | 13.21 | 10.55 | 10.0 | | 0.009 |
| 25.02.2022 | PACKER -2 BAG FILTER | 0.785 | 342.00 | 13.13 | 10.59 | 7.7 | | 0.007 |
| | | | | | | | | |
| | March" 2022 | | | | | | | |
| 01.03.2022 | PACKER -2 BAG FILTER | 0.785 | 336.00 | 10.56 | 8.37 | 11.9 | 7.3 | 0.009 |
| 09.03.2022 | PACKER -2 BAG FILTER | 0.785 | 311.00 | 10.68 | 8.30 | 10.1 | | 0.007 |
| 19.03.2022 | PACKER -2 BAG FILTER | 0.785 | 345.00 | 12.78 | 10.10 | 7.3 | | 0.006 |
| 26.03.2022 | PACKER -2 BAG FILTER | 0.785 | 344.00 | 12.45 | 9.74 | 9.1 | | 0.008 |
| | | | | | | | | |

[illegible]

[illegible]

J.K. Cement WORKS, MANGROL (RAJ) (Unit-3)
DATA SHEET FOR PARTICULATE MATTER EMISSION FROM POINT SOURCE
October" 2021 - March" 2022

[illegible]

[illegible]

| | | | | | | | | | |
|------------|-------------------------|------|-----|-------|-------|------|-------------|-------|--|
| | October" 2021 | | | | | | | | |
| 06.10.2021 | COAL MILL - 3 BAG HOUSE | 3.94 | 335 | 9.39 | 35.91 | 18.5 | 14.1 | 0.057 | |
| 14.10.2021 | COAL MILL - 3 BAG HOUSE | 3.94 | 341 | 9.68 | 37.39 | 12.3 | | 0.040 | |
| 23.10.2021 | COAL MILL - 3 BAG HOUSE | 3.94 | 351 | 9.89 | 37.95 | 15.4 | | 0.050 | |
| 27.10.2021 | COAL MILL - 3 BAG HOUSE | 3.94 | 355 | 10.41 | 40.61 | 10.2 | | 0.036 | |
| | | | | | | | | | |
| | November" 2021 | | | | | | | | |
| 02.11.2021 | COAL MILL - 3 BAG HOUSE | 3.64 | 346 | 7.45 | 26.67 | 9.4 | 10.4 | 0.022 | |
| 12.11.2021 | COAL MILL - 3 BAG HOUSE | 3.64 | 351 | 7.68 | 27.31 | 7.9 | | 0.019 | |
| 22.11.2021 | COAL MILL - 3 BAG HOUSE | 3.64 | 345 | 8.82 | 31.47 | 13.2 | | 0.036 | |
| 30.11.2021 | COAL MILL - 3 BAG HOUSE | 3.64 | 353 | 8.37 | 29.57 | 11.0 | | 0.028 | |
| | | | | | | | | | |
| | December" 2021 | | | | | | | | |
| 04.12.2021 | COAL MILL - 3 BAG HOUSE | 3.94 | 343 | 11.67 | 46.29 | 14.3 | 11.1 | 0.057 | |
| 15.12.2021 | COAL MILL - 3 BAG HOUSE | 3.94 | 335 | 11.25 | 44.18 | 6.4 | | 0.024 | |
| 21.12.2021 | COAL MILL - 3 BAG HOUSE | 3.94 | 339 | 11.77 | 47.33 | 12.8 | | 0.052 | |
| 27.12.2021 | COAL MILL - 3 BAG HOUSE | 3.94 | 342 | 11.48 | 46.32 | 10.9 | | 0.044 | |
| | | | | | | | | | |
| | January" 2022 | | | | | | | | |
| 07.01.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 342 | 11.37 | 46.51 | 13.6 | 9.5 | 0.055 | |
| 14.01.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 335 | 11.48 | 46.64 | 10.6 | | 0.043 | |
| 22.01.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 351 | 10.80 | 43.43 | 11.8 | | 0.044 | |
| 31.01.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 337 | 11.00 | 45.32 | 9.5 | | 0.037 | |
| | | | | | | | | | |
| | February" 2022 | | | | | | | | |
| 03.02.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 337 | 12.11 | 49.54 | 13.5 | 7.2 | 0.058 | |
| 12.02.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 332 | 11.59 | 46.76 | 7.2 | | 0.029 | |
| 21.02.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 344 | 12.13 | 49.97 | 11.6 | | 0.050 | |
| 28.02.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 339 | 12.82 | 52.63 | 8.9 | | 0.040 | |
| | | | | | | | | | |
| | March" 2022 | | | | | | | | |
| 04.03.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 346 | 9.20 | 36.37 | 12.4 | 8.3 | 0.039 | |
| 12.03.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 359 | 8.44 | 32.70 | 8.3 | | 0.023 | |
| 21.03.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 351 | 8.82 | 35.10 | 7.2 | | 0.022 | |
| 29.03.2022 | COAL MILL - 3 BAG HOUSE | 3.94 | 357 | 9.63 | 37.56 | 10.2 | | 0.033 | |

[illegible]

J.K. Cement WORKS, Mangrol (RAJ)

25 MW THERMAL POWER PLANT

DATA SHEET FOR THE PARTICULATE MATTER EMISSION FROM POINT SOURCE

CPP BOILER ESP

| DATE | NAME OF THE STACK | CROSS SECTIONAL AREA OF DUCT (M ²) | STACK GASES TEMP. (K) | STACK GASES VELOCITY (M / Sec.) | FLOW OF GASES IN STACK (NM ³ /Sec.) | DUST CONC. (Mg/ NM3) | MEAN DUST CONC. (Mg/ NM3) | EMISSION RATE (Ts/ DAY) | REMARKS |
|--------|-------------------|--|-----------------------|---------------------------------|--|----------------------|----------------------------|-------------------------|---------|
| Oct-21 | BOILER ESP | 10.69 | 395 | 10.36 | 108.21 | 16.3 | 16.3 | 0.152 | |
| Nov-21 | | 10.69 | 402 | 10.40 | 110.80 | 14.7 | 14.7 | 0.141 | |
| Dec-21 | | 10.69 | 404 | 9.91 | 108.49 | 18.2 | 18.2 | 0.171 | |
| Jan-22 | | 10.69 | 382 | 10.32 | 115.76 | 17.7 | 17.7 | 0.177 | |
| Feb-22 | | 10.69 | 390 | 10.08 | 110.35 | 21.6 | 21.6 | 0.206 | |
| Mar-22 | | STOP | | | | | STOP | STOP | |

J.K. Cement WORKS, Mangrol (RAJ)

25 MW THERMAL POWER PLANT

DATA SHEET FOR THE PARTICULATE MATTER EMISSION FROM POINT SOURCE

CPP COAL CRUSHER

| DATE | NAME OF THE STACK | CROSS SECTIONAL AREA OF DUCT (M ²) | STACK GASES TEMP. (K) | STACK GASES VELOCITY (M / Sec.) | FLOW OF GASES IN STACK (NM ³ /Sec.) | DUST CONC. (Mg/ NM3) | MEAN DUST CONC. (Mg/ NM3) | EMISSION RATE (Ts/ DAY) | REMARKS |
|--------|-------------------------|--|-----------------------|---------------------------------|--|----------------------|----------------------------|-------------------------|---------|
| Oct-21 | COAL CRUSHER BAG FILTER | 0.496 | 329 | 11.32 | 5.43 | 13.6 | 13.6 | 0.006 | |
| Nov-21 | | 0.496 | 324 | 10.90 | 5.42 | 10.8 | 10.8 | 0.005 | |
| Dec-21 | | 0.496 | 334 | 11.14 | 5.70 | 16.9 | 16.9 | 0.008 | |
| Jan-22 | | 0.496 | 329 | 7.39 | 3.81 | 20.7 | 20.7 | 0.007 | |
| Feb-22 | | 0.496 | 327 | 8.73 | 4.34 | 12.9 | 12.9 | 0.005 | |
| Mar-22 | | STOP | | | | | STOP | STOP | |



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001788 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 13-12-2021 |
| Point of Collection : | Limestone Crusher Line -2 | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|---|--|
| 1 | Particulate matter [mg/Nm3] | 15.64 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(10:00AM-10:35AM) was 15.2mg/m3

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001788)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001789 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 13-12-2021 |
| Point of Collection : | Kiln & Raw Mill Stack -2 | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 9.61 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |
| 2 | Sulphur Dioxide [mg/Nm ³] | 4.26 | IS 11255(Part 2) :1985 Reaffirmed 2014 | - |
| 3 | Oxides of Nitrogen [mg/Nm ³] | 348 | IS 11255 (Part 7) :1985 Redffirmed 2012 | - |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(12:00Noon-13:00PM) was 8.9mg/m³

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001789)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001790 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 13-12-2021 |
| Point of Collection : | Kiln & Raw Mill Stack -3 | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|---|--|
| 1 | Particulate matter [mg/Nm3] | 7.37 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |
| 2 | Sulphur Dioxide [mg/Nm3] | 39.75 | IS 11255(Part 2) :1985 Reaffirmed 2014 | - |
| 3 | Oxides of Nitrogen [mg/Nm3] | 241 | IS 11255 (Part 7) :1985 Redffirmed 2012 | - |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(13:00PM-14:00PM) was 7.25mg/m3

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500001790)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001791 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 13-12-2021 |
| Point of Collection : | Clinker Cooler Line - 2 | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|---|--|
| 1 | Particulate matter [mg/Nm3] | 6.3 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(11:30AM-12:00Noon) was 6.26mg/m3.03

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: TC502522500001791)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001792 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 13-12-2021 |
| Point of Collection : | Clinker Cooler Line - 3 | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 5.85 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(11:00AM-11:30AM) was 5.78mg/m³

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522500001792)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001793 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 13-12-2021 |
| Point of Collection : | Coal Mill Line - 2 | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 6.71 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(10:00AM-10:30AM) was 6.48mg/m³

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001793)



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TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001794 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | Coal Mill Line - 3 | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 5.94 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(10:30AM-11:00AM) was 5.56mg/m³

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Puran Malhotra
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001794)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001795 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | Cement Mill-2 (Line - 1) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 11.33 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(11:30AM-12:00AM) was 11.46mg/m³

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001795)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001796 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | Cement Mill-3 (Line - 2) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|--|--|
| 1 | Particulate matter [mg/Nm3] | 9.63 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(12:30PM-13:00PM) was 9.9mg/m3

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001796)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001797 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | Cement Mill-4 (Line - 3) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 11.36 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(13:30PM-14:00AM) was 11.5mg/m³

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001797)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001798 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | 25 MW Thermal Power Plant (Boiler Stack) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|---|--|
| 1 | Particulate matter [mg/Nm3] | 23.22 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |
| 2 | Sulphur Dioxide [mg/Nm3] | 128 | IS 11255(Part 2) :1985 Reaffirmed 2014 | - |
| 3 | Oxides of Nitrogen [mg/Nm3] | 152 | IS 11255 (Part 7) :1985 Redffirmed 2012 | - |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(14:30PM-15:00AM) was 25mg/m3

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001798)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | 500001798 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | 25 MW Thermal Power Plant (Boiler Stack) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|---|----------------|------------------|--|
| 1 | Mercury & its Compounds [mg/Nm ³] | BDL(<0.001) | USEPA method 29 | - |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(14:30PM-15:00AM) was 25mg/m³

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 500001798)



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TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001799 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | Coal Crusher Plant | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 18.81 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE : Opacity Meter Reading during Monitoring Time(14:30AM-15:00AM) was 18.2mg/m³

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500001799)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001808 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 13-12-2021 |
| Point of Collection : | Packer 1 (Line-2) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 12.5 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Senior Analyst
Purni Mal Yogi

Authorized Signatory
(Report No: TC502522500001808)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001809 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 13-12-2021 |
| Point of Collection : | Packer 2 (Line-2) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 15.11 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: TC502522500001809)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001810 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | Packer 3 (Line-2) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|--|--|
| 1 | Particulate matter [mg/Nm3] | 17.37 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Senior Analyst
Purni Mal Yogi

Authorized Signatory
(Report No: TC502522500001810)



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TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500001811 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-12-2021 |
| Point of Collection : | Packer 4 (Line-2) | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 12.65 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Purush
Senior Analyst
Purush Mal Yogi

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500001811)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000172 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-02-2022 |
| Point of Collection : | Limestone Crusher Line -1 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 21.65 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522500000172)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000173 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-02-2022 |
| Point of Collection : | Limestone Crusher Line -2 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 22.73 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mar Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000173)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000174 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-02-2022 |
| Point of Collection : | Kiln & Raw Mill Stack -1 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 4.29 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |
| 2 | Sulphur Dioxide [mg/Nm ³] | 23 | IS 11255(Part 2) :1985 Reaffirmed 2014 | - |
| 3 | Oxides of Nitrogen [mg/Nm ³] | 417 | IS 11255 (Part 7) :1985 Redfirmed 2012 | - |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(09:30AM-10:00AM) was PM-3.79 mg/m³, SO₂-16.97 mg/m³, NO_x-403.31 mg/m³

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522500000174)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000175 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 15-02-2022 |
| Point of Collection : | Kiln & Raw Mill Stack -2 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|---|--|
| 1 | Particulate matter [mg/Nm3] | 7.55 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |
| 2 | Sulphur Dioxide [mg/Nm3] | BDL(<2.0) | IS 11255(Part 2) :1985 Reaffirmed 2014 | - |
| 3 | Oxides of Nitrogen [mg/Nm3] | 526 | IS 11255 (Part 7) :1985 Redffirmed 2012 | - |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(09:30AM-10:00AM) was PM-5.75 mg/m3, SO2-1.12 mg/m3, NOx-511.8 mg/m3

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Maingi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522500000175)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000176 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 15-02-2022 |
| Point of Collection : | Kiln & Raw Mill Stack -3 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|---|--|
| 1 | Particulate matter [mg/Nm3] | 8.88 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |
| 2 | Sulphur Dioxide [mg/Nm3] | 48 | IS 11255(Part 2) :1985 Reaffirmed 2014 | - |
| 3 | Oxides of Nitrogen [mg/Nm3] | 217 | IS 11255 (Part 7) :1985 Redffirmed 2012 | - |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(09:30AM-10:00AM) was PM-6.5 mg/m3, SO2-44.8 mg/m3, NOx-171.8 mg/m3

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
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(Report No: TC502522500000176)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000177 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera., District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-02-2022 |
| Point of Collection : | Clinker Cooler Line - 1 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 24.13 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(10:30AM-11:00AM) was 19.32 mg/m³

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000177)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000178 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 15-02-2022 |
| Point of Collection : | Clinker Cooler Line - 2 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 7.38 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(10:00AM-10:30 AM) was 5.52 mg/m³

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Puran Mal Kogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000178)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000179 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 15-02-2022 |
| Point of Collection : | Clinker Cooler Line - 3 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 6.07 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(04:00AM-05:00AM) was 5.23 mg/m³

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522500000179)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000180 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 14-02-2022 |
| Point of Collection : | Coal Mill Line - 1 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|--|--|
| 1 | Particulate matter [mg/Nm3] | 14.46 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(11:00AM-11:30AM) was 10.56 mg/m3

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522500000180)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000181 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 15-02-2022 |
| Point of Collection : | Coal Mill Line - 2 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 6.75 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(12:00 Noon-12:30PM) was 5.27 mg/m³

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000181)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000182 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 15-02-2022 |
| Point of Collection : | Coal Mill Line - 3 | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 6.37 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(02:30PM-03:00PM) was 5.10 mg/m³

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522500000182)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000183 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-02-2022 |
| Point of Collection : | Cement Mill-2 (Line - 1) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|---|--|
| 1 | Particulate matter [mg/Nm3] | 11.57 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(08:30AM-09:30AM) was 10.25 mg/m3

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
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(Report No: TC502522500000183)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000184 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-02-2022 |
| Point of Collection : | Cement Mill-3 (Line - 2) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|--|--|
| 1 | Particulate matter [mg/Nm3] | 10.79 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(10:00AM-10:30AM) was 9.65 mg/m3

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522500000184)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000185 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-02-2022 |
| Point of Collection : | Cement Mill-4 (Line - 3) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 7.01 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(0:00PM-02:00PM) was 6.40 mg/m³

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500000185)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ULR No.: | TC502522500000186 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-02-2022 |
| Point of Collection : | 25 MW Thermal Power Plant (Boiler Stack) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 27.8 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 50 |
| 2 | Sulphur Dioxide [mg/Nm ³] | 168 | IS 11255(Part 2) :1985 Reaffirmed 2014 | - |
| 3 | Oxides of Nitrogen [mg/Nm ³] | 143 | IS 11255 (Part 7) :1985 Redffirmed 2012 | - |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(10:30AM-11:00AM) was PM-24.14 mg/m³, SO₂-141.79 mg/m³, NO_x- 110.47 mg/m³

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Kajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000186)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ULR No. : | 500000186 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-02-2022 |
| Point of Collection : | 25 MW Thermal Power Plant (Boiler Stack) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|---|----------------|------------------|--|
| 1 | Mercury & its Compounds [mg/Nm ³] | BDL(<0.01) | USEPA method 29 | 0.03 |

Notes :-

NOTE :- Opacity Meter Reading during Monitoring Time(10:30AM-11:00AM) was PM-24.14 mg/m³, SO₂-141.79 mg/m³, NO_x- 110.47 mg/m³

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000187 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 16-02-2022 |
| Point of Collection : | Coal Crusher Plant | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|--|--|
| 1 | Particulate matter [mg/Nm3] | 25.58 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000187)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000188 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Packer 1 (Line-2) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|--|--|
| 1 | Particulate matter [mg/Nm ³] | 23.69 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522500000188)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No.: | TC502522500000189 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Packer 2 (Line-2) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 19.85 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000189)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000190 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 19-02-2022 |
| Point of Collection : | Packer 3 (Line-2) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|--|--|
| 1 | Particulate matter [mg/Nm3] | 19.4 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522500000190)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522500000191 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Stack Emission Level | Date of Sample Collection/Monitoring : | 19-02-2022 |
| Point of Collection : | Packer 4 (Line-2) | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | IS 11255:2008(Part 3)RA 2018 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|---|--|
| 1 | Particulate matter [mg/Nm ³] | 21.58 | IS 11255 (Part 1):1985 Reaffirmed 2014 | 30 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500000191)

ANNEXURE-2

J.K. Cement WORKS, MANGROL (RAJ)
AMBIENT AIR QUALITY AVERAGE RESULTS (SPM) COMMON
FOR UNIT-1, UNIT-2, 25 MW CPP & 10 MW WHR
(ALL VALUES IN MICROGRAMS / CUBIC METER)
October' 2021 - March' 2022

| S.No. & Month | LOCATION / PERAMETER | NEAR TIME OFFICE | NEAR THERMAL POWER PLANT | NEAR FACTORY GATE | NEAR COLONY GATE | Remarks |
|----------------------|-------------------------|---------------------|-----------------------------|-------------------------|---------------------|---------|
| October'2021 | | | | | | |
| 1 | SPM | 363 | 371 | 392 | 345 | |
| 2 | PM10 | 49.21 | 52.52 | 49.23 | 39.94 | |
| 3 | PM2.5 | 30.65 | 34.77 | 29.54 | 27.83 | |
| 4 | SO2 | 15.06 | 23.18 | 18.35 | 17.41 | |
| 5 | NOX | 29.39 | 37.42 | 25.28 | 25.58 | |
| 6 | CO | 732 | 782 | 694 | 659 | |
| November'2021 | | | | | | |
| 1 | SPM | 308 | 321 | 357 | 299 | |
| 2 | PM10 | 32.44 | 37.66 | 35.94 | 40.47 | |
| 3 | PM2.5 | 24.62 | 29.21 | 26.31 | 28.57 | |
| 4 | SO2 | 17.41 | 19.21 | 23.05 | 11.02 | |
| 5 | NOX | 21.77 | 32.72 | 27.24 | 16.89 | |
| 6 | CO | 690 | 735 | 648 | 775 | |

| | | | | | | |
|----------------------|--------------|-------|-------|-------|-------|--|
| December'2021 | | | | | | |
| 1 | SPM | 362 | 343 | 349 | 371 | |
| 2 | PM10 | 45.57 | 43.17 | 45.22 | 50.03 | |
| 3 | PM2.5 | 30.92 | 30.02 | 31.92 | 32.10 | |
| 4 | SO2 | 16.08 | 18.07 | 12.69 | 13.01 | |
| 5 | NOX | 23.41 | 23.65 | 25.64 | 24.68 | |
| 6 | CO | 702 | 660 | 761 | 749 | |
| January'2022 | | | | | | |
| 1 | SPM | 372 | 331 | 396 | 354 | |
| 2 | PM10 | 46.65 | 42.07 | 48.82 | 43.18 | |
| 3 | PM2.5 | 32.38 | 31.51 | 38.11 | 34.57 | |
| 4 | SO2 | 12.61 | 14.30 | 17.58 | 16.42 | |
| 5 | NOX | 16.00 | 9.03 | 11.25 | 17.30 | |
| 6 | CO | 612 | 710 | 725 | 701 | |
| Feburay'2022 | | | | | | |
| 1 | SPM | 348 | 307 | 383 | 320 | |
| 2 | PM10 | 41.29 | 38.85 | 46.44 | 35.89 | |
| 3 | PM2.5 | 22.31 | 27.44 | 36.16 | 31.42 | |
| 4 | SO2 | 17.41 | 16.82 | 14.11 | 11.84 | |
| 5 | NOX | 21.51 | 6.24 | 6.47 | 18.10 | |

| | | | | | | |
|----------------------------|--------------|-------|-------|-------|-------|--|
| 6 | CO | 588 | 689 | 740 | 719 | |
| March'2022 | | | | | | |
| 1 | SPM | 314 | 288 | 408 | 337 | |
| 2 | PM10 | 39.55 | 33.52 | 65.45 | 31.79 | |
| 3 | PM2.5 | 29.78 | 26.17 | 42.11 | 24.31 | |
| 4 | SO2 | 14.37 | 11.90 | 13.96 | 9.00 | |
| 5 | NOX | 17.60 | 8.00 | 10.06 | 14.24 | |
| 6 | CO | 524 | 633 | 784 | 644 | |
| Six monthly Average | | | | | | |
| 1 | SPM | 344.6 | 327.1 | 381.0 | 337.8 | |
| 2 | PM10 | 42.5 | 41.3 | 48.5 | 40.2 | |
| 3 | PM2.5 | 28.4 | 29.9 | 34.0 | 29.8 | |
| 4 | SO2 | 15.5 | 17.2 | 16.6 | 13.1 | |
| 5 | NOX | 21.6 | 19.5 | 17.7 | 19.5 | |
| 6 | CO | 641.2 | 701.5 | 725.1 | 707.8 | |



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400003745 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 15-12-2021 |
| Point of Collection : | Near Time office | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Carbon Monoxide [microgram/m3] | 370 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 12.64 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 37.75 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 2.55 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 72.64 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

(Report No: TC502522400003745)



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TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400003746 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 15-12-2021 |
| Point of Collection : | Near Thermal Power Plant | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Carbon Monoxide [microgram/m3] | 360 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 13.54 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 39.14 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.04 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 76.07 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

(Report No: TC502522400003746)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400003747 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | Near Factory Gate | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Carbon Monoxide [microgram/m3] | 330 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 14.87 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 40.1 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 2.91 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 77.38 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

Raesh Maheshwan

(Report No: TC502522400003747)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400003748 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | Near Colony Gate | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Carbon Monoxide [microgram/m3] | 240 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 10.23 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 30.91 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 2.6 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 69.17 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajeshwar
Authorized Signatory

(Report No: TC502522400003748)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400000418 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 17-02-2022 |
| Point of Collection : | Near Time office | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m3] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m3] | 320 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m3] | 0.12 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO2 [microgram/m3] | 14.08 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m3] | BDL (<20.0) | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM2.5) [microgram/m3] | 37.95 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m3] | 5.45 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM 10) [microgram/m3] | 75.07 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m3] | BDL(<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m3] | 6.6 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes :-

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Puran Mal Yogi

Rajesh Maneshwan



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TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | 400000418 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 17-02-2022 |
| Point of Collection : | Near Time office | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|----------------------------|----------------|----------------------------------|---|
| 1 | Benzene [microgram/m3] | BDL (<1.0) | IS 5182 (Part 11) : 2012 RA 2017 | 5.00 |
| 2 | Benzo-alfa- Pyrene [ng/m3] | BDL(<0.5) | CPCB Guidelines | 1.00 |

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: 400000418)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400000419 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Near Thermal Power Plant | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m3] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m3] | 330 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m3] | 0.15 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO2 [microgram/m3] | 13.46 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m3] | BDL (<20.0) | APHA 1977,Part 819 | 100.00 |
| 6 | Particulate Matter (PM2.5) [microgram/m3] | 33.73 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m3] | 5.31 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM 10) [microgram/m3] | 82.31 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m3] | BDL(<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m3] | 7 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes :-

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Puran Mal Yogi

Rajesh Maheshwan



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | 400000419 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Near Thermal Power Plant | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|----------------------------|----------------|----------------------------------|---|
| 1 | Benzene [microgram/m3] | BDL (<1.0) | IS 5182 (Part 11) : 2012 RA 2017 | 5.00 |
| 2 | Benzo-alfa- Pyrene [ng/m3] | BDL(<0.5) | CPCB Guidelines | 1.00 |

Notes :-

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Senior Analyst

Rajesh Maheshwan
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(Report No: 400000419)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400000420 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 17-02-2022 |
| Point of Collection : | Near Factory Gate | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|---|---|
| 1 | Ammonia [microgram/m3] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m3] | 340 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m3] | 0.15 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO2 [microgram/m3] | 15.43 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m3] | BDL (<20.0) | APHA 1977,Part 819 | 100.00 |
| 6 | Particulate Matter (PM2.5) [microgram/m3] | 34.98 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m3] | 5.02 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM 10) [microgram/m3] | 64.77 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m3] | BDL(<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m3] | 5.3 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes :-

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Puran Mal Yogi
Puran Mal Yogi

Rajesh Maheshwan
Rajesh Maheshwan



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TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | 400000420 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 17-02-2022 |
| Point of Collection : | Near Factory Gate | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|----------------------------|----------------|----------------------------------|---|
| 1 | Benzene [microgram/m3] | BDL (<1.0) | IS 5182 (Part 11) : 2012 RA 2017 | 5.00 |
| 2 | Benzo-alfa- Pyrene [ng/m3] | BDL(<0.5) | CPCB Guidelines | 1.00 |

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
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ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No.: | TC502522400000421 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera., District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Near Colony Gate | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|--|----------------|--|---|
| 1 | Ammonia [microgram/m3] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m3] | 330 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m3] | 0.11 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO ₂ [microgram/m3] | 12.15 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 5 | Ozone [microgram/m3] | BDL (<20.0) | APHA 1977, Part 819 | 100.00 |
| 6 | Particulate Matter (PM _{2.5}) [microgram/m3] | 24.36 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m3] | 4.52 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM ₁₀) [microgram/m3] | 68.76 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |
| 9 | Arsenic [ng/m3] | BDL(<2.0) | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 6.00 |
| 10 | Nickel [ng/m3] | 3.9 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi

Rajesh Maneshwan



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015,

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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitrangan Marg,
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Phone : +91 6377210064, 9414077379,
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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | 400000421 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Near Colony Gate | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 24-02-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|----------------------------|----------------|----------------------------------|---|
| 1 | Benzene [microgram/m3] | BDL (<1.0) | IS 5182 (Part 11) : 2012 RA 2017 | 5.00 |
| 2 | Benzo-alfa- Pyrene [ng/m3] | BDL(<0.5) | CPCB Guidelines | 1.00 |

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: 400000421)

कार्यालय उप वन संरक्षक, वन्यजीव, चित्तौड़गढ़

Phone No. 01472-244915.

E-mail ID – dcfwlchittorgarh@gmail.com

क्रमांक : एफ () सर्वे/उवसं/वजी/2020-21/

दिनांक:

निमित्त

उप वन संरक्षक

चित्तौड़गढ़

विषय :- Request for approval of combined wildlife conservation plan for Scheduled-I species Viz, Indian Peafowl (Pavo cristatus) & Panther (Panthera Pardus fusca), Rusty-spotted cat (Prionailurus rubiginosus), Indian wolf (Canis lupus pallipes) Indian Monitor Lizard (Varanus bengalensis) and Indian vulture (Gyps indicus/gyps bengaliensis) proposed by J.K. Cement Works(J.K. Cement Nimbahera, J.K. Mangrol Cement Plant, Ahirpura Limestone Mine, Karunda Limestone Mine, Malikhera Limestone Mine, Mangrol Limestone Mine, Mangrol-Tilakhera Limestone Mine) Tehsil-Nimbahera, Dist-Chittorgarh (Rajasthan)

प्रसंग :- आपका पत्र क्रमांक 2050 दिनांक 01.04.2021 के कम में।

महोदय,

उपरोक्त विषयान्तर्गत प्रासंगिक पत्र के कम में निवेदन है कि प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक राजस्थान जयपुर के पत्रांक एफ 11(419)विकास-II/मुवजीप्र/2020-21/5-6 दिनांक 4.1.2021 में उल्लेखित बिन्दु संख्या 4 अनुसार मैसर्स जे.के. सीमेन्ट वर्क्स के निम्नांकित खनन पट्टा एवं सीमेन्ट प्लांट इस कार्यालय अधिनस्थ आने वाले बस्सी एवं सीतामाता वन्यजीव अभयारण्य के 10 किमी. परिधि में स्थित नहीं है-

| S. No. | M.L. No./ Plant name | Name of Lease/Plant |
|--------|-----------------------------|----------------------------------|
| 1 | J.K. Cement Works-Nimbahera | J.K. Cement Works-Nimbahera |
| 2 | J K Cement Works- Mangrol | J K Cement Works- Mangrol |
| 3 | ML No. 02/1997 | Ahirpura Limestone Mine |
| 4 | ML No. 03/2003 | Karunda Limestone Mine |
| 5 | ML. No. 04/2003 | Malikhera Limestone Mine |
| 6 | ML No. 07/1997 | Mangrol-Tilakhera Limestone Mine |
| 7 | ML No. 26/2008 | Mangrol Limestone Mine |

भवदीय

(डॉ. टी. मोहनराज)

उप वन संरक्षक

वन्यजीव, चित्तौड़गढ़

क्रमांक : एफ () सर्वे/उवसं/वजी/2020-21/ 2910

दिनांक : 22.04.2021

प्रतिलिपि : मैसर्स जे.के. सीमेन्ट वर्क्स, कैलाश नगर, निम्बाहेड़ा, जिला-चित्तौड़गढ़ को सूचनार्थ प्रेषित है।

(डॉ. टी. मोहनराज)

उप वन संरक्षक

वन्यजीव, चित्तौड़गढ़

राजस्थान सरकार

कार्यालय उप वन संरक्षक, चित्तौड़गढ़ (राज.)

(वन विभाग परिसर, प्रताप सर्किल, चित्तौड़गढ़-312001; Ph&Fax :01472-294001 ;email : dcf.chitor.forest@rajasthan.gov.in)

क्रमांक :- एफ ()सर्वे/उवस/2021-22/4089

दिनांक :- 13.7.2021

निमित्त,

संभागीय मुख्य वन संरक्षक,
उदयपुर

विषय :- Request for approval of combined Wildlife Conservation Plan for Six Scheduled-I species Viz. Indian peafowl (*Pavo cristatus*) & Panther (*Panthera pardus fusca*), Rusty-spotted cat (*Prionailurus rubiginosus*), Indian wolf (*Canis lupus pallipes*) Indian Monitor Lizard (*Varanus bengalensis*) and Indian Vulture (*Gyps indicus/gyps bengaliensis*) proposed by J.K. Cement Works(J.K. Cement, Nimbahera, J.K. Mangrol Cement plant, Ahirpura Limestone Mine, Karunda Limestone Mine, Maliakhera Limestone Mine, Mangrol Kimestone mine and Mangrol- Tilakhera Limestone Mine) Tehsil- Nimbahera, Dist- Chittorgarh (Rajasthan).

प्रसंग :- प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, अरण्य भवन, झालाना संस्थानिक क्षेत्र, राजस्थान, जयपुर का पत्र क्रमांक एफ.11(419) विकास-II/मुवजीप्र/2020-21/4-6 दिनांक 4.1.2021 एवं आपका पत्र क्रमांक 484 दिनांक 19.1.2021 एवं 1793 दिनांक 17.3.2021 व J.K. Cement Works, (J.K. Cement, Nimbahera) का पत्र क्रमांक - दिनांक 29.6.2021 के क्रम में।

महोदय,

उपरोक्त विषयान्तर्गत निवेदन है, कि प्रासंगिक पत्र द्वारा Wildlife Conservation Plan में लगाए गए आक्षेपों की पूर्ति की जाकर निम्नानुसार प्रेषित है :-

| क्र.सं. | आक्षेप | प्रत्युत्तर |
|---------|---|--|
| 1 | पर्यावरण एवं जलवायु परिवर्तन मंत्रालय केन्द्र सरकार/ राज्य सरकार द्वारा जारी ToR पत्र की प्रति संलग्न कर प्रस्तुत करें। | प्रयोक्ता एजेन्सी द्वारा ToR की प्रतियां संलग्न कर दी गई है। |
| 2 | एनेक्सचर-1 के बिन्दु संख्या 1 से 14 तक पूर्ण रूप से भरकर उप वन संरक्षक द्वारा प्रमाणित कराया जावे एवं इस के बिन्दु संख्या-9 में वित्तीय प्रावधान फोरमुला-1 व फोरमुला-2 के अनुसार गणना कर जो भी अधिकतम परियोजना लागत दर्शायी जावे। | एनेक्सचर-1 के बिन्दु संख्या 1 से 14 तक पूर्ण रूप से भरकर उप वन संरक्षक द्वारा प्रमाणित कर दिया गया है एवं इस के बिन्दु संख्या-9 में वित्तीय प्रावधान फोरमुला-1 व फोरमुला-2 के अनुसार गणना कर ली गई है तथा अधिकतम परियोजना लागत दर्शायी जा चुकी है। |
| 3 | इस कार्यालय द्वारा जारी दिशा निर्देशों दिनांक 24.5.2019 के अनुसार WCP के 20% धनराशि RPACS के खाता संख्या 61087162999 IFSC Code SBIN0031510 में जमा कर प्राप्ति रसीद इस कार्यालय को प्रस्तुत करें। | प्रयोक्ता एजेन्सी द्वारा बैंक संख्या 00245671 राशि 57,07,000/- RPACS के खाता संख्या 61087162999 में जमा करवा दी गई है। |

| | | |
|---|---|--|
| 4 | आवेदित खनन पट्टा क्षेत्र से 10 कि.मी. परिधि के दायरे में वन्यजीव/टाईगर रिजर्व या सेन्चूरी नहीं होने का पत्र उप वन संरक्षक, चित्तौड़गढ़ के द्वारा जारी कर WCP में संलग्न करें। | आवेदित खनन पट्टा क्षेत्र से 10 कि.मी. परिधि के दायरे में वन्यजीव/टाईगर रिजर्व या सेन्चूरी नहीं होने का प्रमाण पत्र उप वन संरक्षक, वन्यजीव चित्तौड़गढ़ के पत्र क्रमांक 2909 दिनांक 22.4.2021 प्रेषित किया गया है प्रति संलग्न है। |
|---|---|--|

संलग्न :- उपरोक्तानुसार

भवदीय

(सुगना राम जाट)

उप वन संरक्षक,

चित्तौड़गढ़

दिनांक :- 13.7.2021

क्रमांक :- एफ () सर्वे/उवस/2021-22/4090-91

प्रतिलिपि :-

1. प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, अरण्य भवन, झालाना संस्थानिक क्षेत्र, राजस्थान, जयपुर।

✓ 2. Unit Head, J.K. Cement Works, (J.K. Cement, Nimbahera)

(सुगना राम जाट)

उप वन संरक्षक,

चित्तौड़गढ़



o/c
JK Cement LTD.

CIN : L17229UP1994PLC017199

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | ISO 50001:2018 CERTIFIED COMPANY

Phone : +91-1477-220098, 220087
Fax : +91-1477-220027, 220049
E-mail : jkc.nbh@jkcement.com
Web : www.jkcement.com

J.K. Cement Works
Kailash Nagar - 312617, Nimbahera
Distt. Chittorgarh (Raj.) INDIA

NBH/PC/C-FO/21/

Date: 29.06.2021

To,
The Divisional Forest Officer
Chittorgarh, Rajasthan

Sub.: Regarding submission of desired documents sought by DFO, Chittorgarh for approval of combined Wildlife Conservation Plan for six Schedule-I species Viz. Indian Peafowl (*Pavo cristatus*), Panther (*Panthera pardus fusca*), Rusty Spotted Cat (*Prionailurus rubiginosus*), Indian Wolf (*Canis lupus pallipes*), Indian Monitor lizard (*Varanus bengalensis*) and Indian vulture (*Gyps indicus/ bengalensis*) for M/s J.K.Cement Works-Nimbahera, J K Cement Works-Mangrol, Nimbahera-Ahирра Limestone Mine (ML No.02/1997), Karunda Limestone Mine (ML No.03/2003), Maliakhara Limestone Mine (ML No.04/2003), Mangrol-Tilakhara Limestone Mine (ML No.07/1997) and Mangrol Limestone Mine (ML No.26/2008) in Tehsil Nimbahera, District - Chittorgarh, Rajasthan.

Reference: 1.DFO letter no.F () Survey/DFO/2021-22/3252, Chittorgarh, Dated 10.06.2021.
2.PCCF Letter No. F.11(419) DEV-II/ PCCF-CWLW/2020-21/4, Jaipur, Dated 04.01.2021.

Respected Sir,

Kindly refer to the above subject matter and referred letter, we are enclosing herewith pointwise reply as under: -

Point No.1: Submission of TOR letters granted by the Ministry of Environment, Forest and Climate Change, Govt of India.

Compliance: Copy of TOR Letters of above projects granted by MOEF &CC has been submitted vide letter no. NBH/PC/C/EC/112020-21, dated 21/01/2021.

Point No.2: Submission of duly filled annexure-1 from point no 1 to 14 & calculation of financial outlay in point no.9 as per the formula-1 & 2 and duly authenticated by DFO.

Compliance: Duly filled Annexure-I (Sr. No. 1 to 14) has been submitted with financial outlay according to formula 1 and 2. Financial outlay of formula-2 is enclosed herewith for Rs. 285.35 lakh in Annexure-1 as mention in letter received from your office dated 10.06.2021.

Corporate & Registered Office : Kamla Tower, Kanpur-208001, (U. P.) INDIA
Phone : +91-512-2371478 to 81 **Fax :** 2399854 **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





JK Cement LTD.

CIN : L17229UP1994PLC017199

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | ISO 50001:2018 CERTIFIED COMPANY

Phone : +91-1477-220098, 220087
Fax : +91-1477-220027, 220049
E-mail : jkc.nbh@jkcement.com
Web : www.jkcement.com

J.K. Cement Works
Kailash Nagar - 312617, Nimbahera
Distt. Chittorgarh (Raj.) INDIA

Point No.3: Deposition of 20% amount of WCP as per the CWLW guidelines dated 24th May 2019 and submit the receipt.

Compliance: Receipt of amount 57.07 Lakh deposited into account of RPACS on dated 28.06.2021, Jaipur, (20% of 285.35 Lakh, approved cost of Wilf life conservation plan) enclosed as Annexure-2.

Point No.4: Submission of certificate from the DFO Chittorgarh for non-existence of Wildlife Sanctuary /Tiger Reserve or sanctuary within the 10 Km radius of the Projects.

Compliance: A copy of NOC for no Wildlife Sanctuary/ Tiger Reserve or Sanctuary present in the 10 Km radius of the above project issued by DFO Chittorgarh, enclosed as Annexure-3.

Thanking You,

Yours Faithfully,

J.K. Cement Works, Nimbahera

R.B.M. Tripathi
(President(O)& Unit Head)

R.B.M. TRIPATHI
UNIT HEAD
J. K. Cement Works
Nimbahera, Mangrol (Raj.)

Enclosed as above

Copy to: The Principal Chief Conservator of Forests,
Chief Wildlife Warden (CWLW), Jaipur, Rajasthan

5
व
25
1-07-2021
D



Corporate & Registered Office : Kamla Tower, Kanpur-208001, (U. P.) INDIA
Phone : +91-512-2371478 to 81 Fax : 2399854 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



राजस्थान सरकार

कार्यालय उप वन संरक्षक, चित्तौड़गढ़ (राज.)

(वन विभाग परिसर, प्रताप सर्किल, चित्तौड़गढ़-312001; Ph&Fax :01472-294001; email : dcf.chltor.forest@rajasthan.gov.in)

क्रमांक :- एफ () सर्वे/उवस/2021-22/ 3252

दिनांक :- 10.6.2021

निमित्त,

Unit Head,
J.K. Cement Works,
(J.K. Cement, Nimbahera)

विषय :- Request for approval of combined Wildlife Conservation Plan for Six Scheduled-I species Viz. Indian peafowl (*Pavo cristatus*) & Panther (*Panthera pardus fusca*), Rusty-spotted cat (*Prionailurus rubiginosus*), Indian wolf (*Canis lupus pallipes*) Indian Monitor Lizard (*Varanus bengalensis*) and Indian Vulture (*Gyps indicus/gyps bengaliensis*) proposed by J.K. Cement Works(J.K. Cement, Nimbahera, J.K. Mangrol Cement plant, Ahirpura Limestone Mine, Karunda Limestone Mine, Maliakhera Limestone Mine, Mangrol Kimestone mine and Mangrol- Tilakhera Limestone Mine) Tehsil- Nimbahera, Dist- Chittorgarh (Rajasthan).

प्रसंग :- प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, अरण्य भवन, झालाना संस्थानिक क्षेत्र, राजस्थान, जयपुर का पत्र क्रमांक एफ.11(419) विकास-II/मुवजीप्र/2020-21/4-6 दिनांक 4.1.2021 एवं आपका पत्र क्रमांक 484 दिनांक 19.1.2021 एवं 1793 दिनांक 17.3.2021 के क्रम में।

महोदय,

उपरोक्त विषयान्तर्गत लेख है, कि प्रासंगिक पत्र द्वारा Wildlife Conservation Plan में लगाए गए आक्षेपों की पूर्ति हेतु आपको इस कार्यालय के पत्र क्रमांक 335 दिनांक 19.1.2021 से लिखा गया। आपके द्वारा दिनांक 21.1.2021 को प्रस्तुत प्रत्युत्तर का परिक्षण करने पर पाया गया कि आप द्वारा प्रेषित Wildlife Conservation Plan 285.35 लाख का प्रेषित किया गया है, किन्तु RPACS में राशि 13.07 लाख ही जमा करवाया जाना प्रस्तावित किया गया है।

अतः आप प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, राजस्थान जयपुर के प्रासंगिक पत्र के आक्षेप संख्या 3 अनुसार Wildlife Conservation Plan की पूर्ण लागत 285.35 लाख रु. का 20% राशि RPACS में जमा करवाया जाना सुनिश्चित करें। आपकी सुविधा हेतु खाता संख्या विवरण के लिए प्रासंगिक पत्र की छाया प्रति संलग्न प्रेषित है।

संलग्न :- उपरोक्तानुसार

(सुगना राम जाट)
उप वन संरक्षक,
चित्तौड़गढ़

कार्यालय प्रधान मुख्य वन संरक्षक एवं मुख्य वन्य जीव प्रतिपालक, अरण्य
भवन, झालाना संस्थानिक क्षेत्र, राजस्थान, जयपुर

फोन नम्बर: 0141-2700151

ई-मेल: cwlw.raj@gmail.com

क्रमांक : एफ.11(419)विकास-II/मुवजीप्र/2020-21/4
निमित्त,

दिनांक : 14-01-2021

सम्भागीय मुख्य वन संरक्षक,
उदयपुर।

विषय :- Request for approval of combined wildlife conservation plan for six scheduled I species Viz. Indian peafowl (Pavo Cristatus) and Panther (Panthera pardus fusca), Rusty-spotted cat (prionailurus rubiginosus, Indian wolf (Cains lupus pallipes) Indian Monitor Lizard (Varanus bengalensis) and Indian Vulture (gyps indicus/gypts bengaliensis) proposed by J.K. Cement works Nimbahera, J.K. Cement Works Mangrol Ahirpura Limestone Mine, Mangrol Limestone Mine and Mangrol-Tilakhara Limestone Mine) Tehsil-Nimbahera, District-Chittorgarh (Raj.).

संदर्भ:- उप वन संरक्षक(एफ.सी.ए.) कार्यालय प्रधान मुख्य वन संरक्षक (हॉफ) के पत्रांक 2967 एवं आपका पत्रांक 5002 दिनांक 24.09.2020 के क्रम में।

महोदय,

विषयान्तर्गत संदर्भित पत्र के क्रम में लेख है कि इस कार्यालय के पत्रांक 6451-6483 दिनांक 24.05.2019 के अनुसार वाईल्डलाईफ कंजर्वेशन प्लान मूल ही लौटाकर निम्नांकित आक्षेप की पूर्ति कर भिजवायें :-

1. पर्यावरण एवं जलवायु परिवर्तन मंत्रालय केन्द्र सरकार/राज्य सरकार द्वारा जारी ToR पत्र की प्रति संलग्न कर प्रस्तुत करें।
2. एनेक्सर-1 के बिन्दु संख्या 1 से 14 तक पूर्ण रूप से भरकर उप वन संरक्षक द्वारा प्रमाणित कराया जावे एवं इस के बिन्दु संख्या-9 में वित्तीय प्रावधान फोरमूला-1 व फोरमूला-2 के अनुसार गणना कर जो भी अधिकतम परियोजना लागत दर्शायी जावे।
3. इस कार्यालय द्वारा जारी दिशा निर्देशों दिनांक 24.05.2019 के अनुसार WCP के 20% धनराशि RPACS के खाता संख्या 61087162999 IFS Code SBIN0031510 में जमा कर प्राप्ति रसीद इस कार्यालय को प्रस्तुत करें।
4. आवेदित खनन पट्टा क्षेत्र से 10 कि.मी. परिधि के दायरे में वन्यजीव अभयारण्य/टाईगर रिजर्व या सेन्चुरी नही होने का पत्र उप वन संरक्षक, चित्तौड़गढ़ के द्वारा जारी कर WCP में संलग्न करें।

उपरोक्तानुसार पालना के पश्चात् स्वीकृति जारी की जायेगी।

संलग्न :- उपरोक्तानुसार,
(मूल प्रस्ताव 2 प्रतियों में)

PCA
8/1/21

140
12/4/21

भवदीय,

(एम.एल. मीना)

प्रधान मुख्य वन संरक्षक एवं मुख्य
वन्यजीव प्रतिपालक,
राजस्थान, जयपुर

क्रमांक : एफ.11(419)विकास-II/मुवजीप्र/2020-21/

दिनांक :

प्रतिलिपि : निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. उप वन संरक्षक, चित्तौड़गढ़।
2. Unit Head M/s J.K. Cement works Nimbahera, District-Chittorgarh (Raj.).

1. प्रधान मुख्य वन संरक्षक
एवं मुख्य वन्यजीव प्रतिपालक,
राजस्थान, जयपुर

PROJECT:- J.K. CEMENT WORKS NIMBAHERA, J.K. CEMENT WORKS MANGROL, NIMBAHERA-AHIRPURA LIMESTONE MINE, KARUNDA LIMESTONE MINE, MALAKHERA LIMESTONE MINE, MANGROL LIMESTONE MINE AND MANGROL-TILAKHERA LIMESTONE MINE
 APPLICANT:- J. K. CEMENT WORKS
 DOCUMENT NO.- COMBINED WILDLIFE CONSERVATION PLAN

Financial outlay of WCP 285.35 Lakh for combined wildlife conservation plan for J.K. CEMENT WORKS NIMBAHERA, J.K. CEMENT WORKS MANGROL, NIMBAHERA-AHIRPURA LIMESTONE MINE, KARUNDA LIMESTONE MINE, MALAKHERA LIMESTONE MINE, MANGROL LIMESTONE MINE AND MANGROL-TILAKHERA LIMESTONE MINE, YEAR 2021

| S.No | Activities | Year Wise Fund Allocation (in Lakhs) | | | | | | | | | | Total |
|------|--|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|---------------|
| | | 1 st | 2 nd | 3 rd | 4 th | 5 th | 6 th | 7 th | 8 th | 9 th | 10 th | |
| 1 | Habitat improvement & mitigative measures (Food, Water, shelter, Movement etc) and measures to reduce/minimize the human-animal conflict (50% of total outlay of WCP = 142.67 lacs.) | | | | | | | | | | | |
| 1a | Plantation including maintenance in forest area and buffer zone in consultation with DFO Chittorgarh suitable for peafowl and other birds | - | 5 | 5 | 7 | 7 | 10 | 10 | 15 | 15 | 14.67 | 88.67 |
| 1b | Rejuvenation of existing water bodies in forest area | - | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 45 |
| 1. | Awareness and extension (Forest staff will also be invited for various activities to ensure Participation) 10 % of total outlay of WCP = 28.53 lacs) | | | | | | | | | | | |
| 2a | Provision of Awareness and educational programme for wildlife, biodiversity significance at school level, village level and Gram Panchayat level in consultation of forest department. | - | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5.54 | 28.53 |
| 3 | Support for Forest Department for monitoring, rescue & rehabilitation of wildlife Veterinary care, animal health, rescue, tools and equipment etc. (10 % of total outlay of WCP = 28.53 lacs) | | | | | | | | | | | |
| 3a | Provision for necessary Veterinary medicine and rescue etc | - | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5.54 | 28.53 |
| 4 | Contribution towards conservation of wildlife in Pas (to be deposited in RPACS) Wetland Development, Research & Monitoring – Wildlife, census of wildlife etc (10 % of total outlay of WCP = 28.53 lacs) | | | | | | | | | | | |
| 4a | Provision for Research and monitoring etc. | 28.53 | - | - | - | - | - | - | - | - | - | 28.53 |
| 5 | Administration Cost for processing inspection etc (to be deposited in RPACS) (10 % of total outlay of WCP = 28.53 lacs) | | | | | | | | | | | |
| 5a | Administration Cost for processing inspection etc | 28.53 | - | - | - | - | - | - | - | - | - | 28.53 |
| 6 | Miscellaneous including Eco-Development and capacity building (10 % of total outlay of WCP = 28.53 lacs) | | | | | | | | | | | |
| 6a | Miscellaneous including Eco-Development and capacity building | - | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5.54 | 28.53 |
| | TOTAL FOR WCP FOR TOR PROJECTS | 57.06 | 16 | 16 | 18 | 22 | 25 | 25 | 34 | 34 | 38.29 | 285.35 |



ENKAY ENVIRO SERVICES PVT. LTD., JAIPUR

उप वन संरक्षक
चित्तौड़गढ़

JK Cement LTD

R.B.M. TRIPATHI

UNIT HEAD

J. K. Cement Works
Nimbahera, Mangrol, Ahirpura

[Signature]

ANNEXURE-2**M/s JK Cement Works Nimbahera,**

Deposition of 20% amount of WCP as per the CWLW guidelines dated 24th May 2019,

Details are under

| Post Date | Remitter Branch | Description | Cheque No. | Debit Amount(Rs.) |
|------------|-----------------|---|------------|-------------------|
| 28/06/2021 | NIMBAHERA | CHQ TRANSFER PRINCIPAL CHIEF IDIBR52021062823940774 | 00245671 | 5707000.00 |


R.B.M. TRIPATHI
UNIT HEAD
J. K. Cement Works
Nimbahera, Mangrol (Raj.)

कार्यालय उप वन संरक्षक, वन्यजीव, चित्तौड़गढ़

Phone No. 01472-244915.

E-mail ID - dcfwlchittorgarh@gmail.com

क्रमांक : एफ() सर्वे/उवस/वजी/2020-21/

दिनांक:

निमित्त

उप वन संरक्षक

चित्तौड़गढ़

विषय :- Request for approval of combined wildlife conservation plan for Scheduled-I species Viz, Indian Peafowl (*Pavo cristatus*) & Panther (*Panthera Pardus fusca*), Rusty-spotted cat (*Prionailurus rubiginosus*), Indian wolf (*Canis lupus pallipes*) Indian Monitor Lizard (*Varanus bengalensis*) and Indian vulture (*Gyps indicus/gyps bengaliensis*) proposed by J.K. Cement Works(J.K. Cement Nimbahera, J.K. Mangrol Cement Plant, Ahirpura Limestone Mine, Karunda Limestone Mine, Malikhera Limestone Mine, Mangrol Limestone Mine, Mangrol-Tilakhera Limestone Mine) Tehsil-Nimbahera, Dist-Chittorgarh (Rajasthan)

प्रसंग :- आपका पत्र क्रमांक 2050 दिनांक 01.04.2021 के कम में।

महोदय,

उपरोक्त विषयान्तर्गत प्रासंगिक पत्र के कम में निवेदन है कि प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक राजस्थान जयपुर के पत्रांक एफ 11(419)विकास-ग/मुवजीप्र/2020-21/5-6 दिनांक 4.1.2021 में उल्लेखित बिन्दु संख्या 4 अनुसार मैसर्स जे.के. सीमेंट वर्क्स के निम्नांकित खनन पट्टा एवं सीमेंट प्लांट इस कार्यालय अधिनस्थ आने वाले बस्सी एवं सीतामाता वन्यजीव अभयारण्य के 10 किमी. परिधि में स्थित नहीं है-

| S. No. | M.L. No./ Plant name | Name of Lease/Plant |
|--------|-----------------------------|----------------------------------|
| 1 | J.K. Cement Works-Nimbahera | J.K. Cement Works-Nimbahera |
| 2 | J K Cement Works- Mangrol | J K Cement Works- Mangrol |
| 3 | ML No. 02/1997 | Ahirpura Limestone Mine |
| 4 | ML No. 03/2003 | Karunda Limestone Mine |
| 5 | ML. No. 04/2003 | Malikhera Limestone Mine |
| 6 | ML No. 07/1997 | Mangrol-Tilakhera Limestone Mine |
| 7 | ML No. 26/2008 | Mangrol Limestone Mine |

भवदीय

(डॉ. टी. मोहनराज)

उप वन संरक्षक

वन्यजीव, चित्तौड़गढ़

क्रमांक : एफ() सर्वे/उवस/वजी/2020-21/ 2910

दिनांक : 22.04.2021

प्रतिलिपि : मैसर्स जे.के. सीमेंट वर्क्स, कैलाश नगर, निम्बाहेड़ा, जिला-चित्तौड़गढ़ को सूचनार्थ प्रेषित है।

(डॉ. टी. मोहनराज)

उप वन संरक्षक

वन्यजीव, चित्तौड़गढ़

| | | |
|-----------------|------------------------|--------------|
| UTR Number | IDIBR52021062823940774 | |
| Value Date: | 28/06/2021 | |
| Amount | 5707000.00 | INR |
| Related Ref.No: | | Commission 0 |

Beneficiary Details

Beneficiary A/C: 61087162999
 Benef. Name And Address:
 PRINCIPAL CHIEF CONSERVATOR OF
 FORESTS WILD LIFE

Remitting Customer Details

Account Number: 00000021411544392
 Remitter's Name And Address:
 M/s. J K CEMENT LIMITED
 J K CEMENT LTD
 KAMLA TOWER
 KANPUR Kanpur M Corp O

Beneficiary bank/branch

IFSC Code: SBIN0031510

Details of Payment:

RTGS

Sender's To Receiver Information

Error Code

Sender IFSC Code IDIB000N598

Close





TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OHSAS 18001:2007

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | TC502521200002436 | Date : | 30-12-2021 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | 25MW CPP-ETP | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 30-12-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 24 | APHA.2017:2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) [mg/l] | 9 | APHA 2017:5210-B | 30 |
| 3 | Chemical Oxygen Demand (COD) [mg/l] | 81.54 | APHA:2017 : 5220-C | 250 |
| 4 | pH | 7.52 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 5 | Phosphate (total) as P [mg/l] | 0.41 | APHA 2017 : 4500-P C | 5 |
| 6 | Chromium Total [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 2.0 |
| 7 | Copper [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 3.0 |
| 8 | Zinc [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 5.0 |
| 9 | Oil & Grease [mg/l] | 3 | APHA 2017 : 5520 B | 10 |
| 10 | Free available chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 0.5 |
| 11 | Total Residual Chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 0.5 |

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502521200002436)



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JDA/UDH

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Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | 200002436 | Date : | 30-12-2021 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | 25MW CPP-ETP | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 30-12-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|------------------|----------------|------------------|--|
| 1 | Temperature [°C] | 18 | APHA 2017 :2550A | - |

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 200002436)



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ISO 14001:2015,

ISO 45001:2018 (OH&S)

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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | TC502522200000358 | Date : | 02-03-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | 25MW CPP-ETP | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 28-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 23 | APHA.2017:2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) [mg/l] | 10.67 | APHA 2017:5210-B | 30 |
| 3 | Chemical Oxygen Demand (COD) [mg/l] | 80.96 | APHA:2017 : 5220-C | 250 |
| 4 | pH | 7.54 | APHA:2017 : 4500 H+B | 6.5 - 8.5 |
| 5 | Phosphate (total) as P [mg/l] | 0.42 | APHA 2017 : 4500-P C | 5 |
| 6 | Chromium Total [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 0.2 |
| 7 | Copper [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 1.0 |
| 8 | Zinc [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 1.0 |
| 9 | Oil & Grease [mg/l] | 4 | APHA 2017 : 5520 B | 10 |
| 10 | Iron [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 1.0 |
| 11 | Total Residual chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 0.5 |

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst

Authorized Signatory

(Report No: TC502522200000358)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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RSPCB

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|------------------|
| Report No./ULR No. : | 200000358 | Date : | 02-03-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | 25MW CPP-ETP | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 28-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|------------------|----------------|------------------|--|
| 1 | Temperature [°C] | 22 | APHA 2017 :2550A | - |

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: 200000358)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | TC502521200002437 | Date : | 30-12-2021 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | 29.1 MW WHRS ETP | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 30-12-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 26 | APHA.2017:2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) [mg/l] | 8.4 | APHA 2017:5210-B | 30 |
| 3 | Chemical Oxygen Demand (COD) [mg/l] | 62.72 | APHA:2017 : 5220-C | 250 |
| 4 | pH | 7.64 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 5 | Phosphate (total) as P [mg/l] | 0.52 | APHA 2017 : 4500-P C | 5 |
| 6 | Chromium Total [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 2.0 |
| 7 | Copper [mg/l] | 0.03 | APHA :2017 :3111- B | 3.0 |
| 8 | Iron [mg/l] | 0.04 | APHA :2017 :3111- B | 3.0 |
| 9 | Zinc [mg/l] | 0.08 | APHA :2017 :3111- B | 5.0 |
| 10 | Oil & Grease [mg/l] | 4 | APHA 2017 : 5520 B | 10 |
| 11 | Free available chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 0.5 |
| 12 | Total Residual Chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 0.5 |

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Senior Analyst
Sunil Kumar

Authorized Signatory
(Report No: TC502521200002437)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | 200002437 | Date : | 30-12-2021 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | 29.1 MW WHRS ETP | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 30-12-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|------------------|----------------|------------------|--|
| 1 | Temperature [°C] | 18 | APHA 2017 :2550A | - |

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200002437)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | TC502522200000359 | Date : | 02-03-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | 29.1 MW ETP | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 28-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 24 | APHA.2017:2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) [mg/l] | 9.67 | APHA 2017:5210-B | 30 |
| 3 | Chemical Oxygen Demand (COD) [mg/l] | 73.92 | APHA:2017 : 5220-C | 250 |
| 4 | pH | 7.21 | APHA:2017 : 4500 H+B | 6.5 - 8.5 |
| 5 | Phosphate (total) as P [mg/l] | 0.53 | APHA 2017 : 4500-P C | 5 |
| 6 | Chromium Total [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 0.2 |
| 7 | Copper [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 1.0 |
| 8 | Iron [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 1.0 |
| 9 | Zinc [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 1.0 |
| 10 | Oil & Grease [mg/l] | 4 | APHA 2017 : 5520 B | 10 |
| 11 | Total Residual chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 0.5 |

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522200000359)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | 200000359 | Date : | 02-03-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | 29.1 MW ETP | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 28-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|------------------|----------------|------------------|--|
| 1 | Temperature [°C] | 22 | APHA 2017 :2550A | - |

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: 200000359)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | TC502521200002438 | Date : | 30-12-2021 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | STP Sushila Nagar Colony | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 30-12-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 27 | APHA.2017:2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 13.62 | APHA 2017 : 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 16.67 | APHA 2017:5210-B | 30 |
| 4 | Chloride as Cl [mg/l] | 153.47 | APHA 2017 : 4500- Cl- B | - |
| 5 | Chemical Oxygen Demand (COD) [mg/l] | 116.03 | APHA:2017 : 5220-C | 250 |
| 6 | pH | 7.85 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 7 | Sulphide as S [mg/l] | BDL (<0.1) | APHA. 2017 : 4500-S2-F | 2 |
| 8 | Total Kjeldahl Nitrogen (TKN) [mg/l] | 19.74 | APHA 2017 : 4500-Norg B | 100 |
| 9 | Oil & Grease [mg/l] | 4 | APHA 2017 : 5520 B | 10 |
| 10 | Total Residual Chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 1.0 |

Notes :-

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Senior Analyst

Sunil Kumar

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502521200002438)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | 200002438 | Date : | 30-12-2021 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | STP Sushila Nagar Colony | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 30-12-2021 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|------------------|--|
| 1 | Faecal coliform [MPN/100ml] | Not Detected | IS 1622 : 1981 | - |

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Sunil Kumar

Authorized Signatory
(Report No: 200002438)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | TC502522200000360 | Date : | 02-03-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | STP Sushila Nagar Colony | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 28-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 28 | APHA.2017:2540-D | 100 |
| 2 | Ammonical Nitrogen as N [mg/l] | 12.89 | APHA 2017 : 4500-NH3 C | 50 |
| 3 | Biochemical Oxygen Demand (BOD) [mg/l] | 13.33 | APHA 2017:5210-B | 30 |
| 4 | Chloride as Cl [mg/l] | 140.89 | APHA 2017 : 4500- Cl- B | - |
| 5 | Chemical Oxygen Demand (COD) [mg/l] | 112.64 | APHA:2017 : 5220-C | 250 |
| 6 | pH | 7.81 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 7 | Sulphide as S [mg/l] | BDL (<0.1) | APHA. 2017 : 4500-S2-F | 2 |
| 8 | Total Kjeldahl Nitrogen (TKN) [mg/l] | 18.71 | APHA 2017 : 4500-Norg B | 100 |
| 9 | Oil & Grease [mg/l] | 5 | APHA 2017 : 5520 B | 10 |
| 10 | Total Residual chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 1.0 |

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Senior Analyst

Authorized Signatory
(Report No: TC502522200000360)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------|
| Report No./ULR No. : | 200000360 | Date : | 02-03-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Wastewater Sample | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | STP Sushila Nagar Colony | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 28-02-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|-----------------------------|----------------|------------------|--|
| 1 | Faecal coliform [MPN/100ml] | Not Detected | IS 1622 : 1981 | - |

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: 200000360)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

ANNEXURE-6 NOISE



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------|
| Report No./ULR No. : | TC502522600002700 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbaheera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | Near Time office | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 62.4 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 52.4 | IS 9989 | 70 |

Notes :-

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Senior Analyst
Purnan Mal Yogi

Authorized Signatory
Rajesh Maheshwari

(Report No: TC502522600002700)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015

OHSAS 18001:2007

JDA/UDH

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-----------------|
| Report No./ULR No. : | TC502522600002701 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | Near Thermal Power Plant | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 63.9 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.3 | IS 9989 | 70 |

Notes :-

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Purnima Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522600002701)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-----------------|
| Report No./ULR No. : | TC502522600002702 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | Near Factory Gate | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 64.5 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 51.3 | IS 9989 | 70 |

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522600002702)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-----------------|
| Report No./ULR No. : | TC502522600002703 | Date : | 08-01-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 16-12-2021 |
| Point of Collection : | Near Colony Gate | Date of Receipt : | 24-12-2021 |
| Date of Test/Analysis : | 24-12-2021 to 08-01-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 52.7 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 43.6 | IS 9989 | 70 |

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522600002703)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-----------------|
| Report No./ULR No. : | TC502522600000260 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Near Time office | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 64.7 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 54.6 | IS 9989 | 70 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522600000260)



TEAM TEST HOUSE

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Email : director@teamtesthouse.com,
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TEST REPORT

| | | | |
|-------------------------|--|--|-----------------|
| Report No./ULR No. : | TC502522600000261 | Date : | 26-02-2022 |
| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Cement Plant |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Near Thermal Power Plant | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 67.9 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.2 | IS 9989 | 70 |

Notes :-

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Puran Mal
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522600000261)



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| Issued To : | M/S J.K. Cement Works (Mangrol) Village- Mangrol, Tehsil - Nimbahera,, District - Chittorgarh-312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Near Factory Gate | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 63.7 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 56.2 | IS 9989 | 70 |

Notes :-

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Puran
Puran Mal Vogi
Senior Analyst

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522600000262)



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| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 18-02-2022 |
| Point of Collection : | Near Colony Gate | Date of Receipt : | 22-02-2022 |
| Date of Test/Analysis : | 22-02-2022 to 26-02-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Krashtra Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|--|
| 1 | Noise Level (Day Time) : Leq [dB(A)] | 57.3 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 50.5 | IS 9989 | 70 |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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