



## JK Cement Works, Aligarh

A unit of JK Cement LTD.

(CIN: L17229UP1994PLC017199)  
ISO 9001 & ISO 14001 CERTIFIED COMPANY

Web : [www.jkcement.com](http://www.jkcement.com)

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

Dated: 29.05.2021

Ref. No.: AL/EMD/MoEF/2019-20/F 02/002

To,  
**Deputy Director General of Forest (C),**  
Ministry of Environment, Forest and Climate Change,  
Regional Office (CZ)  
Kendriya Bhawan, 5th Floor, Sector H,  
Aliganj, Lucknow-226024 (UP)

**Subject:** Half yearly (Oct,20 to March,21) Environmental Clearance Compliance Report of our Proposed Clinker Grinding Unit capacity 2.0 MTPA at Village: Satha, Tehsil: Koil, District: Aligarh.

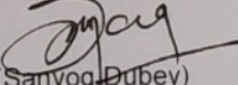
**Ref. No.** EC Letter No. 532/Parya/SEAC/4214/2018, Dated: 27<sup>th</sup> November, 2018.

Dear Sir,  
Refer to the above subject & reference, we are enclosing herewith compliance report of Environment Clearance for Proposed Clinker Grinding Unit capacity 2.0 MTPA of M/s JK Cement Works, Village: Satha, Tehsil: Koil, District: Aligarh. Please find enclosed herewith the copy of Half Yearly Environmental Clearance Compliance Report with supporting annexures to fulfill the EC conditions. The Proposed Clinker Grinding Unit is under construction.

Please find the above for your ready reference.

Thanking you,

Yours faithfully,  
For JK Cement Works

  
(Sanyog Dubey)  
Unit Head

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

1. Member Secretary UP State Pollution Control Board- [ms@uppcb.com](mailto:ms@uppcb.com)
2. Regional Director, CPCB Regional Office, Zonal Office (North) PICUP Bhawan VibhutiKhand, GomtiNagar Lucknow - 226 010 – [skgupta110@yahoo.com](mailto:skgupta110@yahoo.com)
3. UPPCB-Regional office -J-1, Gyan Sarovar Colony, Ramghat Road, Aligarh-roaligarh@uppcb.com



**Corporate & Registered Office :** Kamla Tower, Kanpur-208001, (U. P.) INDIA  
**Phone :** +91-512-2371478 to 81 **Fax :** +91-512-2399854 **E-mail:** [ho.grey@jkcement.com](mailto: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





**ENVIRONMENT CLEARANCE CONDITIONS COMPLIANCE REPORT****(Period October 2020 to March 2021)****J. K. CEMENT WORKS, Village- Satha, Tehsil- Koil, Dist. Aligarh (UP)****EC Letter No. 532/Parya/SEAC/4214/2018, dated 27<sup>th</sup> November, 2018**

C. No.	S. No.	Details of Conditions	Conditions Compliance Status
I	<b>Statutory compliance</b>		
	i	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	There is no any forest land involved in the project area, NOC Letter issued from DFO vide letter no. 2896 /14-10/ALIGARH dt. 27.02.2019, enclosed as Annexure-1. Hence diversion of land is not applicable.
	ii	The project proponent shall obtain clearance from the National Board for Wild life, if applicable	Not Applicable.
	iii	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wild life Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area).	Not Applicable.
	iv	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	Complied with. 1. Consent to Establish has been obtained from UPPCB vide letter No. 26748/UPPCB/Aligarh(UPPCBRO) /CTE/Aligarh/2018, dated 20.08.2018, copy is attached in <b>Annexure-2</b> . 2. Consent to Operate has been obtained for Air vide letter No. 72122/UPPCB/Aligarh /(UPPCBRO)/ CTO/air/ ALIGARH/2019, dated 15.01.2020 and 3. Consent to Operate has been obtained for Water vide letter No. 72125/UPPCB/Aligarh (UPPCBRO)/ CTO/water/ALIGARH/2019, dated 15.01.2020, copy is attached in <b>Annexure-3</b> .
	v	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water from the competent authority concerned in case of drawl of surface water required for the project.	Complied with. 1. CGWA NOC has been obtained vide NOC No. CGWA/NOC/IND/ORIG/2018/4589, dated 11.01.2019 & 26.04.2019. 2. Renewal of NOC has been applied online on 11.11.2020 at CGWA and subsequently applied at UP Ground water department.
	vi	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Complied with. HW authorization has been obtained from UPPCB vide letter no. 11919/UPPCB/Aligarh(UPPCBRO)/HWM/ALIGARH/20



# ENVIRONMENT CLEARANCE CONDITIONS COMPLIANCE REPORT

(Period October 2020 to March 2021)

J. K. CEMENT WORKS, Village- Satha, Tehsil- Koil, Dist. Aligarh (UP)

EC Letter No. 532/Parya/SEAC/4214/2018, dated 27<sup>th</sup> November, 2018

			20 Dated: 12/06/2020 & amendment vide letter no. H50793 C-4/ Hazards/2019 dated 08/07/2020, copy is attached in <b>Annexure-4</b> .																																							
<b>II</b>			<b>Air quality monitoring and preservation</b>																																							
i			The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 vide G.S.R. No. 612 (E) dated 25 <sup>th</sup> August, 2014 (Cement) and subsequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.																																							
ii			Complied with. OCEMS for PM emission monitoring has been installed at Cement Mill stack and connected with server of SPCB and CPCB.																																							
ii			Complying with. Fugitive emission monitored by EPA recognised Lab, report is attached in <b>Annexure:5</b> Monthly average of fugitive emission results (in µg/M <sup>3</sup> ) are as :- <table><tr><td>Month</td><td>L-1</td><td>L-2</td><td>L-3</td><td>L-4</td></tr><tr><td>Oct 20</td><td>1460</td><td>920</td><td>1430</td><td>1180</td></tr><tr><td>Nov 20</td><td>1350</td><td>1000</td><td>1400</td><td>1250</td></tr><tr><td>Dec 20</td><td>1710</td><td>1795</td><td>1885</td><td>1717</td></tr><tr><td>Jan 21</td><td>1630</td><td>920</td><td>1360</td><td>1210</td></tr><tr><td>Feb 21</td><td>1610</td><td>910</td><td>1380</td><td>1240</td></tr><tr><td>Mar 21</td><td>1590</td><td>920</td><td>1390</td><td>1260</td></tr></table> L1- Cement Mill Area L-2-Packing Area L-3- Flyash Silo Area L-4- Unloading Area					Month	L-1	L-2	L-3	L-4	Oct 20	1460	920	1430	1180	Nov 20	1350	1000	1400	1250	Dec 20	1710	1795	1885	1717	Jan 21	1630	920	1360	1210	Feb 21	1610	910	1380	1240	Mar 21	1590	920	1390	1260
Month	L-1	L-2	L-3	L-4																																						
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Mar 21	1590	920	1390	1260																																						
iii			Complying with. Four nos. of Ambient air monitoring stations have been installed and monitoring is being done regularly. The report is attached in <b>Annexure:6</b>  Station 1: Plant boundary towards east direction are as :-  All the results in (µg/m <sup>3</sup> ) <table><tr><td>Month</td><td>PM 10</td><td>PM 2.5</td><td>SO2</td><td>NOx</td></tr><tr><td>Oct 20</td><td>53.54</td><td>31.71</td><td>9.85</td><td>21.22</td></tr><tr><td>Nov 20</td><td>55.38</td><td>35.84</td><td>14.69</td><td>22.20</td></tr><tr><td>Dec 20</td><td>97.5</td><td>54.6</td><td>13.54</td><td>23.34</td></tr><tr><td>Jan 21</td><td>52.49</td><td>33.69</td><td>12.06</td><td>24.13</td></tr><tr><td>Feb 21</td><td>55.47</td><td>36.31</td><td>19.45</td><td>26.72</td></tr><tr><td>Mar 21</td><td>57.69</td><td>38.88</td><td>15.04</td><td>27.36</td></tr></table>					Month	PM 10	PM 2.5	SO2	NOx	Oct 20	53.54	31.71	9.85	21.22	Nov 20	55.38	35.84	14.69	22.20	Dec 20	97.5	54.6	13.54	23.34	Jan 21	52.49	33.69	12.06	24.13	Feb 21	55.47	36.31	19.45	26.72	Mar 21	57.69	38.88	15.04	27.36
Month	PM 10	PM 2.5	SO2	NOx																																						
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Feb 21	55.47	36.31	19.45	26.72																																						
Mar 21	57.69	38.88	15.04	27.36																																						
			The project proponent shall install system carryout to Ambient Air Quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering up wind and downwind directions.(case to case basis small plants :Manual; Large plants: Continuous).																																							



# ENVIRONMENT CLEARANCE CONDITIONS COMPLIANCE REPORT

(Period October 2020 to March 2021)

J. K. CEMENT WORKS, Village- Satha, Tehsil- Koil, Dist. Aligarh (UP)

EC Letter No. 532/Parya/SEAC/4214/2018, dated 27<sup>th</sup> November, 2018

EC Letter No. 552/Pu/ya/SEAC/4214/2010, dated 27 November, 2010

			<div>Station 2: Plant boundary towards west direction (Project office)</div> <table><tr><th>Month</th><th>PM 10</th><th>PM 2.5</th><th>SO2</th><th>NOx</th></tr><tr><td>Oct 20</td><td>53.16</td><td>34.98</td><td>9.63</td><td>45.69</td></tr><tr><td>Nov 20</td><td>56.56</td><td>34.46</td><td>13.08</td><td>21.17</td></tr><tr><td>Dec 20</td><td>94.3</td><td>48.9</td><td>14.03</td><td>21.20</td></tr><tr><td>Jan 21</td><td>58.01</td><td>39.18</td><td>11.60</td><td>31.45</td></tr><tr><td>Feb 21</td><td>63.48</td><td>43.74</td><td>17.20</td><td>24.13</td></tr><tr><td>Mar 21</td><td>66.98</td><td>42.80</td><td>14.78</td><td>26.16</td></tr></table> <div>Station 3: Plant boundary towards North direction</div> <table><tr><th>Month</th><th>PM 10</th><th>PM 2.5</th><th>SO2</th><th>NOx</th></tr><tr><td>Oct 20</td><td>54.24</td><td>37.87</td><td>11.49</td><td>23.76</td></tr><tr><td>Nov 20</td><td>56.84</td><td>33.92</td><td>12.72</td><td>21.54</td></tr><tr><td>Dec 20</td><td>91.2</td><td>50.6</td><td>14.29</td><td>23.31</td></tr><tr><td>Jan 21</td><td>56.38</td><td>35.39</td><td>12.98</td><td>26.18</td></tr><tr><td>Feb 21</td><td>61.07</td><td>38.30</td><td>20.08</td><td>27.55</td></tr><tr><td>Mar 21</td><td>60.34</td><td>41.52</td><td>18.59</td><td>30.76</td></tr></table> <div>Station 4: Plant boundary towards South direction (Near CCR building)</div> <table><tr><th>Month</th><th>PM 10</th><th>PM 2.5</th><th>SO2</th><th>NOx</th></tr><tr><td>Oct 20</td><td>56.14</td><td>38.62</td><td>11.82</td><td>23.21</td></tr><tr><td>Nov 20</td><td>57.41</td><td>36.65</td><td>14.62</td><td>21.35</td></tr><tr><td>Dec 20</td><td>88.5</td><td>46.8</td><td>12.95</td><td>21.62</td></tr><tr><td>Jan 21</td><td>54.23</td><td>36.53</td><td>12.12</td><td>25.65</td></tr><tr><td>Feb 21</td><td>58.49</td><td>38.22</td><td>16.33</td><td>23.20</td></tr><tr><td>Mar 21</td><td>62.97</td><td>41.87</td><td>17.38</td><td>31.72</td></tr></table>	Month	PM 10	PM 2.5	SO2	NOx	Oct 20	53.16	34.98	9.63	45.69	Nov 20	56.56	34.46	13.08	21.17	Dec 20	94.3	48.9	14.03	21.20	Jan 21	58.01	39.18	11.60	31.45	Feb 21	63.48	43.74	17.20	24.13	Mar 21	66.98	42.80	14.78	26.16	Month	PM 10	PM 2.5	SO2	NOx	Oct 20	54.24	37.87	11.49	23.76	Nov 20	56.84	33.92	12.72	21.54	Dec 20	91.2	50.6	14.29	23.31	Jan 21	56.38	35.39	12.98	26.18	Feb 21	61.07	38.30	20.08	27.55	Mar 21	60.34	41.52	18.59	30.76	Month	PM 10	PM 2.5	SO2	NOx	Oct 20	56.14	38.62	11.82	23.21	Nov 20	57.41	36.65	14.62	21.35	Dec 20	88.5	46.8	12.95	21.62	Jan 21	54.23	36.53	12.12	25.65	Feb 21	58.49	38.22	16.33	23.20	Mar 21	62.97	41.87	17.38	31.72
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	iv	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	<div>Graphs on stack emission of OCEMS is attached in <b>Annexure: 7</b>.</div> <div>Stack emission monitored by recognised lab, copy is attached in <b>Annexure:8</b>.</div> <div>Monthly average of cement mill stack emission are as:-</div> <table><tr><th>Month</th><th>Result ( Mg/Nm3)</th></tr><tr><td>October 20</td><td>10.0</td></tr><tr><td>November 20</td><td>9.1</td></tr><tr><td>December 20</td><td>12.0</td></tr><tr><td>January 21</td><td>11.8</td></tr><tr><td>February 21</td><td>12.7</td></tr><tr><td>March 21</td><td>11.3</td></tr></table>	Month	Result ( Mg/Nm3)	October 20	10.0	November 20	9.1	December 20	12.0	January 21	11.8	February 21	12.7	March 21	11.3																																																																																											
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	v	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	<div>Complied with.</div> <div>Bag filters have been installed at all material transfer points. Total installation are 23 nos. List of bag filters is attached in <b>Annexure- 9</b>.</div>																																																																																																									
	vi	The project proponent shall provide leakage	<div>Complied with.</div>																																																																																																									



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EC Letter No. 532/Parya/SEAC/4214/2018, dated 27<sup>th</sup> November, 2018

		detection and mechanised bag cleaning facilities for better maintenance of bags.	Mechanised bag cleaning facilities of Bag filters and Leakage detection system has been provided.
	vii	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	Provided Bag dust collector at cement mill stack to maintain PM emission level of <30 mg/Nm <sup>3</sup> , bag filters are provided at all transfer points, cemented roads, vacuum sweeping, covered unloading hoppers, covered conveyor belts, covered storage etc.
	viii	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Road sweeping machine has been deployed for road cleaning.
	ix	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.	Complying with. Clinker is being transported through truck with covering by tarpaulin. Fly ash is transported by closed bulkers and stored in closed silo. Photograph attached in <b>Annexure- 10</b> .
	x	Provide wind shelter fence and chemicals spraying on the raw material stockpiles.	Complied with. Covered storage facilities for the following raw materials have been provided. 1. Silo for clinker storage 2. Shed for Gypsum 3. Silo for fly ash Photographs are attached as <b>Annexure- 10</b> .
	xi	Have separate truck parking area and monitor vehicular emissions at regular interval.	Complied with. Separate truck parking area has been provided and vehicle entry allow with valid PUC only in the plant. Photograph of truck parking is attached in <b>Annexure- 10</b> .
	xii	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.	Complied with. Covered conveyor belts for transportation of the raw materials and end products has been provided. Photograph of covered conveyor belt attached in <b>Annexure-10</b> .
	xiii	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, Cement bagging plants.	Complied with. Ventilation system has been provided.
<b>III</b>	<b>Water quality monitoring and preservation:</b>		
	i	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25 <sup>th</sup> August, 2014 (Cement) and sub sequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (Case to case basis small plants: Manual; Large plants: Continuous).	Not Applicable. There is no any effluent generation.



# ENVIRONMENT CLEARANCE CONDITIONS COMPLIANCE REPORT

(Period October 2020 to March 2021)

J. K. CEMENT WORKS, Village- Satha, Tehsil- Koil, Dist. Aligarh (UP)

EC Letter No. 532/Parya/SEAC/4214/2018, dated 27<sup>th</sup> November, 2018

EC Letter No. 532/Paryd/SEAC/4214/2018, dated 27 November, 2020

ii	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers / sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Complying with. Ground water quality monitored on 22.03.2021 through recognized lab. Reports are enclosed as <b>Annexure-11</b> <table><tr><th>Parameter</th><th>Unit</th><th>BW - 1</th><th>BW - 2</th></tr><tr><td>Ph</td><td>NTU</td><td>7.42</td><td>7.29</td></tr><tr><td>TDS</td><td>mg/L</td><td>628.6</td><td>551.5</td></tr><tr><td>Chlorine (Residual)</td><td>mg/L</td><td>&lt;0.02</td><td>&lt;0.02</td></tr><tr><td>Fluoride,(F)</td><td>mg/L</td><td>0.65</td><td>0.84</td></tr><tr><td>Chloride,(C)</td><td>mg/L</td><td>41</td><td>37.0</td></tr><tr><td>Iron,(F)</td><td>mg/L</td><td>0.15</td><td>0.14</td></tr><tr><td>Sulphate (SO4)</td><td>mg/L</td><td>54.3</td><td>39.0</td></tr><tr><td>Total Alkalinity,(CaCO3)</td><td>mg/L</td><td>115.0</td><td>97.0</td></tr><tr><td>Total Hardness,(CaCO3)</td><td>mg/L</td><td>234.0</td><td>194.0</td></tr><tr><td>Magnesium,(Mg)</td><td>mg/L</td><td>24.9</td><td>18.9</td></tr><tr><td>Nitrate (NO3)</td><td>s/cm</td><td>2.15</td><td>2.05</td></tr><tr><td>Conductivity</td><td>mg/L</td><td>911.0</td><td>799.0</td></tr><tr><td>Calcium,(Ca)</td><td>NTU</td><td>52.0</td><td>46.0</td></tr></table>	Parameter	Unit	BW - 1	BW - 2	Ph	NTU	7.42	7.29	TDS	mg/L	628.6	551.5	Chlorine (Residual)	mg/L	<0.02	<0.02	Fluoride,(F)	mg/L	0.65	0.84	Chloride,(C)	mg/L	41	37.0	Iron,(F)	mg/L	0.15	0.14	Sulphate (SO4)	mg/L	54.3	39.0	Total Alkalinity,(CaCO3)	mg/L	115.0	97.0	Total Hardness,(CaCO3)	mg/L	234.0	194.0	Magnesium,(Mg)	mg/L	24.9	18.9	Nitrate (NO3)	s/cm	2.15	2.05	Conductivity	mg/L	911.0	799.0	Calcium,(Ca)	NTU	52.0	46.0
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iii	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Not Applicable. There is no any effluent generation.																																																								
iv	Adhere to Zero Liquid Discharge	Complying with. Zero Liquid Discharge is being maintained.																																																								
v	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	Not Applicable. Domestic water consumption is less than 07 KLD and waste water is being disposed in Soak Pit Via Septic Tank.																																																								
vi	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rain sand to check the water pollution due to surface runoff.	Complied with. All raw materials are stored under covered shed and silo.																																																								
vii	The project proponent shall practice rain water harvesting to maximum possible extent.	Complied with. Three numbers of rain water harvesting structure has been provided. Photograph attached in <b>Annexure- 12</b> .																																																								
viii	Water meters shall be provided at the inlet to all unit processes in the cement plant.	Complied with. Water meters at the inlet of all process unit has been provided in the Cement Plant. Water Meters is under process at Industrial & Domestic purpose as discussed.																																																								
ix	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Continuous efforts has been taken to reduce water consumption. Water consumption details: - <table><tr><th>Month</th><th>Water consumption (KL)</th></tr><tr><td>Oct 20</td><td>2554.5</td></tr><tr><td>Nov 20</td><td>2694.0</td></tr></table>	Month	Water consumption (KL)	Oct 20	2554.5	Nov 20	2694.0																																																		
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			Nov 20	2694.0																																			
			Dec 20	1666.9																																			
			Jan 21	1907																																			
			Feb 21	1877																																			
			Mar 21	1747.10																																			
IV	Noise monitoring and prevention																																						
	i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	<p>Noise monitoring is being done periodically and report is attached in <b>Annexure:13</b></p> <p>Monthly average of ambient Noise are as (Day/Night in dB) :-</p> <table border="1"> <thead> <tr> <th>Month</th><th>L-1</th><th>L-2</th><th>L-3</th><th>L-4</th></tr> </thead> <tbody> <tr> <td>Oct 20</td><td>63/61</td><td>66/59</td><td>65/58</td><td>64/57</td></tr> <tr> <td>Nov 20</td><td>66/59</td><td>64/58</td><td>63/57</td><td>66/58</td></tr> <tr> <td>Dec 20</td><td>71.6/65.2</td><td>70.6/61.9</td><td>72.8/63.2</td><td>69.1/56.7</td></tr> <tr> <td>Jan 21</td><td>65/63</td><td>68/61</td><td>66/62</td><td>67/61</td></tr> <tr> <td>Feb 21</td><td>67/62</td><td>66/60</td><td>67/59</td><td>68/61</td></tr> <tr> <td>Mar 21</td><td>64/63</td><td>66/62</td><td>68/64</td><td>67/58</td></tr> </tbody> </table> <p>L1- Plant boundary towards east direction  L2- Plant boundary towards west direction (Project office)  L3- Plant boundary towards North direction  L4- Plant boundary towards South direction (Near CCR building)</p>		Month	L-1	L-2	L-3	L-4	Oct 20	63/61	66/59	65/58	64/57	Nov 20	66/59	64/58	63/57	66/58	Dec 20	71.6/65.2	70.6/61.9	72.8/63.2	69.1/56.7	Jan 21	65/63	68/61	66/62	67/61	Feb 21	67/62	66/60	67/59	68/61	Mar 21	64/63	66/62	68/64	67/58
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	ii	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75dB (A) during day time and 70dB (A) during night time.	Complying with.																																				
V	Energy Conservation measures																																						
	i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Solar light has been installed for common area.																																				
	ii	Provide the project proponent for LED lights in their offices and residential areas.	Complied with. LED lights in the offices has been provided.																																				
	iii	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.	Complying with. fly ash is being used as per BIS norms for making the PPC.																																				
VI	Waste management																																						
	i.	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.	Complied with. Hazardous waste sold to the CPCB authorized recycler only.																																				
	ii	Kitchen waste shall be composted or converted to biogas for further use. (To be decided on case to case basis depending on type and size of plant).	Kitchen waste is converted for compost. To be complied																																				
VII	Green Belt																																						
	i.	Green belts shall be developed in an area equal to 33% of the plant area with a native	1631 numbers of saplings have been planted in 1.3 Ha area till Dec 2020. Additional 1000 saplings will be																																				



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EC Letter No. 532/Purya/SEAC/4214/2018, dated 27 November, 2018

		tree species in accordance with CPCB guide lines. The green belt shall inter alia cover the entire periphery of the plant	planted during monsoon in the year 2021. As required 33% of 6.83 ha project area i.e. 2.25 ha area with total 2500 numbers of saplings will be covered by Dec2021. Photographs of plantation is enclosed as <b>Annexure-14</b> . Balance plantation will be planted in July' 2021.																
	ii	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Complying with. Plantation has been carried out after Covid -19 epidemic. On basis of planted sapling carbon sink has calculated, Total carbon Sequestered is 0.75 tonnes. Total carbon sequestered (Tonnes of CO2) (Carbon sequestered in Tonnes * 3.67) is 2.77 tonnes.																
VIII	Public hearing and Human health issues																		
	i	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complying with. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan has prepared & implemented at site.																
	ii	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied with. Personal Protective Equipment (PPE's) to Staff & Workmen are being provided.																
	iii	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Provided at the time of plant erection and commissioning time.																
	iv	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complying with. Pre-employment and periodical medical examination are being done to the employee & workmen and record maintained.																
IX	Corporate Environment Responsibility																		
	i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	Complying with. The proposed CER budget for the next five year is Rs. 400 Lacs. The expenses occurred in FY 2020-21 are given below: <table><tr><td>Activities</td><td>Rs. In Lacs</td></tr><tr><td>COVID expenses nearby village</td><td>3.18</td></tr><tr><td>Cement bags provided to Aligarh</td><td>0.08</td></tr><tr><td>Water purifier to Kasimpur Village</td><td>0.26</td></tr><tr><td>AC provided at Kasimpur Village</td><td>0.28</td></tr><tr><td>Satha Village, cement bags provided for community work</td><td>3.0</td></tr><tr><td>Satha Village, AC provided</td><td>0.35</td></tr><tr><td>Total</td><td>7.14</td></tr></table>	Activities	Rs. In Lacs	COVID expenses nearby village	3.18	Cement bags provided to Aligarh	0.08	Water purifier to Kasimpur Village	0.26	AC provided at Kasimpur Village	0.28	Satha Village, cement bags provided for community work	3.0	Satha Village, AC provided	0.35	Total	7.14
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EC Letter No. 532/Parya/SEAC/4214/2018, dated 27<sup>th</sup> November, 2018

EC Letter No. 532/Paryd/SEAC/4214/2018, dated 27 November, 2018			Total	7.14																		
ii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest / wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms / conditions and shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied with. Company has the Corporate Environment Policy duly approved by the Board of Directors. Copy has been submitted to the MoEF&CC.  Copy enclosed as <b>Annexure-15</b> .																				
iii	A separate Environmental Cell both at the project and company head quarter level with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	Complied Unit has separate Env. Dept. under the control of unit head.																				
iv	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry /Regional Office along with the Six Monthly Compliance Report.	Complying with. EMP expenditure details are as below up to March 2021. <table><tr><th>S. No.</th><th>Description of Item</th><th>Capital Cost (In Rs.)</th></tr><tr><td>1</td><td>Air Pollution Control - Water Sprinkling</td><td>1054.38</td></tr><tr><td>2</td><td>Water Pollution Control</td><td>102.00</td></tr><tr><td>3</td><td>Environmental Monitoring and Management</td><td>14.00</td></tr><tr><td>4</td><td>Green Belt Development</td><td>3.79</td></tr><tr><td colspan="2">Total</td><td>1174.17</td></tr></table>			S. No.	Description of Item	Capital Cost (In Rs.)	1	Air Pollution Control - Water Sprinkling	1054.38	2	Water Pollution Control	102.00	3	Environmental Monitoring and Management	14.00	4	Green Belt Development	3.79	Total		1174.17
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Total		1174.17																				
v	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Self-environment audit is carried out on daily basis and discussed in daily plant meeting.  3 <sup>rd</sup> party audit shall be carried out and will be submitted to the Ministry.																				
vi	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plans shall be implemented.	Complied with. Compliance status is give as below: 1. PM emission level of cement mill bag house is <30 mg/Nm3 2. All raw materials are stored in closed storage silos and shed. 3. All movement area is cemented 4. Daily cleaning is done by vacuum sweeping machine. 5. All unloading hoppers are covered and provided																				



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			<p>with bag dust collectors.</p> <p>6. Bag dust collectors have been provided at all material transfer points.</p> <p>7. All conveyor belts are covered.</p>
<b>X</b>	<b>Miscellaneous</b>		
	i	Directions/ suggestions given during public hearing and Commitment made by the project proponent should be strictly complied.	<p>Complied with.</p> <ul style="list-style-type: none"> <li>• Clinker stored in closed silo.</li> <li>• To get the permission for railway siding is under process with railway dept.</li> <li>• To control the emission, pollution control equipment installed.</li> <li>• 80 % workforce employed are from Aligarh district.</li> <li>• Skill development to be started, delayed due to Covid pandemic.</li> <li>• CSR activities has been started.</li> <li>• To control the fugitive emission, clinker transported through truck and covered with tarpaulin.</li> <li>• Till the date 1631 sapling has been planted and 33 % plantation area will be covered by Dec 2021.</li> <li>• Medical camp will be organized in surrounding the villages, once Covid pandemic is over.</li> <li>• OHS center has been facilitate at plant for any medical emergency. Safety officer deployed in plant to prevent the accident.</li> <li>• Regular water spray in open area to control the fugitive emission.</li> </ul>
	li	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's web site permanently.	<p>Complied with.</p> <p>Advertised in newspapers on 04.12.2018 in Amar Ujala and Dainik Jagaran.</p> <p>Copy has been submitted to the Ministry on 04.12.2018.</p>
	iii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<p>Complied with.</p> <p>Receipt has been submitted to the ministry on 04.12.2018.</p>
	lv	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	<p>Complying with.</p> <p>Half yearly EC compliance report is being uploaded at company's website at <a href="https://www.jkcement.com/environmental-compliance">https://www.jkcement.com/environmental-compliance</a></p>



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V	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied with. PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> are monitored for ambient air and PM level at cement mill stack & results are displayed at the main gate through digital display board. Emission levels are uploaded along with EC compliance report at company's website.
vi	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the web site of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complying with. Submitted on 24.11.2020
vii	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the web site of the company.	Environment Statement submitted on 21.09.2020.
viii	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complying with. Details has been submitted to the Ministry on 19.12.2018 vide letter No. JK/Aligarh/EC/2018-19/F 03/004 dated 19.12.2018.
ix	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Complying with and agreed.
X	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Complying with and agreed.
xi	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment Forests and Climate Change (MoEF&CC).	Complying with and agreed.
xii	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
xiii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xiv	The Ministry reserves the right to stipulate	Noted.



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		additional conditions if found necessary.	
	xv	The Company in a time bound manner shall implement these conditions.	Noted.
	xvi	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Noted.
	xvii	The above conditions shall be forced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted.
	xviii	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

  
 Authorized Signatory  
J.K. Cement Works Aligarh  
Village Satha, Aligarh (UP)  
PIN - 202127



# कार्यालय प्रभागीय निदेशक, सामाजिक वानिकी प्रभाग, अलीगढ़।

पत्रांक 2896/14-10, अलीगढ़: दिनांक: फरवरी, 27, 2019

सेवा में,

यूनिट हेड,  
जे0के0 सीमेंट वर्क्स,  
कासिमपुर रोड़, ग्राम-साथा,  
परगना-मोरथल, तहसील- कोल,  
जनपद-अलीगढ़-202127।

विषय:-

जे0के0 सीमेन्ट वर्क्स, अलीगढ़ के खसरा सं0 126, 149, 150, 151, 151/1, 151/2, 151/3, 151/4, 152, 157, 158, 159 ए, 159/3 एवं 160/4, क्षेत्रफल 6.87 ग्राम- साथा, तहसील-कोल, जनपद-अलीगढ़ में वनभूमि होने/न होने के सम्बन्ध में।

संदर्भ-

आपका पत्रांक JK/Aligarh/EC/DFO/2018-19/F06/001 dated 21.01.2019

उपरोक्त संदर्भित पत्र द्वारा वांछित ग्राम-साथा, तहसील-कोल, जनपद-अलीगढ़ के अन्तर्गत खसरा सं0 126, 149, 150, 151, 151/1, 151/2, 151/3, 151/4, 152, 157, 158, 159 ए, 159/3 एवं 160/4, क्षेत्रफल 6.87 हे0 के वनभूमि/गैर वनभूमि होने के सम्बन्ध में सूचना चाही गयी है। इस सम्बन्ध में जांचोपरान्त क्षेत्रीय वन अधिकारी, अलीगढ़ रेंज ने अपने पत्र सं0 198/35-1 दि0 22.02.2019 द्वारा अवगत कराया गया है कि ग्राम साथा के अन्तर्गत उक्त खसरा संख्या जिसका कुल क्षेत्रफल 6.87 हे0 है, वनभूमि नहीं है।

(एस0डी0 त्रिपाठी)

प्रभागीय निदेशक,

सामाजिक वानिकी प्रभाग, अलीगढ़।

पत्रांक /14-1 समदिनांकित

प्रतिलिपि- क्षेत्रीय वन अधिकारी, अलीगढ़ रेंज को उनके पत्र सं0 198/35-1 दि0 22.02.2019 के क्रम में सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

(एस0डी0 त्रिपाठी)

प्रभागीय निदेशक,

सामाजिक वानिकी प्रभाग, अलीगढ़।





U.P. Pollution Control Board

CONSENT ORDER

Ref No. -

72122/UPPCB/Aligarh(UPPCBRO)/CTO/air/ALIGARH/2019

Dated : 15/01/2020

To ,

Shri YADUPATI SINGHANIA

M/s JK CEMENT LIMITED

ALIGARH - KASIMPUR ROAD, VILLAGE - SATHA, PARGANA - MORTHAL, TESHIL -  
KOIL, DISTRICT - ALIGARH, UP, ALIGARH, 202127  
ALIGARH

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended)  
to M/s. JK CEMENT LIMITED

Reference Application No. 6420274

Dated : 15/01/2020

1. With reference to the application for consent for emission of air pollutants from the plant of M/s JK CEMENT LIMITED. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
  2. This consent is valid for the period from 15/11/2019 to 31/12/2023 .
  3. Inspite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
- This consent is being issued with the permission of competent authority .

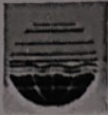
For and on behalf of U.P. Pollution Control Board  
Ram Kumar Singh  
Chief Environment Officer,  
Circle-4

Enclosed : As above  
(condition of consent):

Copy to: Regional Officer, U.P. Pollution Control Board, Aligarh.

Ram Kumar Singh  
Chief Environment Officer,  
Circle-4





## U.P. Pollution Control Board

## CONSENT ORDER

Ref No. -  
72125/UPPCB/Aligarh(UPPCBRO)/CTO/water/A  
LIGARH/2019

Dated : 15/01/2020

To ,

Shri YADUPATI SINGHANIA,  
M/s JK CEMENT LIMITED  
ALIGARH - KASIMPUR ROAD, VILLAGE - SATHA, PARGANA - MORTHAL, TESHIL -  
KOIL, DISTRICT - ALIGARH, UP, ALIGARH, 202127  
ALIGARH

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974  
(as amended) for discharge of effluent to M/s. JK CEMENT LIMITED

Reference Application No :6420409

Dated :15/01/2020

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act, 1974 as amended (here in after referred as the act ) M/s. JK CEMENT LIMITED is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 15/11/2019 to 31/12/2023 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Previntion and Controt of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Ram Kumar  
Singh  
Chief Environment Officer,  
Circle-4

Digitally signed by Ram Kumar  
Singh  
Date: 2020.01.15 11:30:20  
+05'30'

Enclosed : As above  
(condition of consent):

Copy to: Regional Officer, U.P. Pollution Control Board, Aligarh.

Ram Kumar  
Singh  
Chief Environment Officer,  
Circle-4

Digitally signed by Ram  
Kumar Singh  
Date: 2020.01.15 11:31:52  
+05'30'





उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड  
UTTAR PRADESH POLLUTION CONTROL BOARD

Annexure - 4

संदर्भ संख्या: 150793 सी-4/हैजार्डस/2019

दिनांक 8-7-2020

सेवा में,

मै0 जे0के0 सीमेंट वर्क्स,  
अलीगढ़-कासिमपुर रोड, ग्राम- साधा,  
परगना-मोस्थल, तहसील-कोल,  
जनपद- अलीगढ़

विषय:- Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

महोदय,

उपरोक्त विषयक अपने पत्र दिनांक 25.06.2020 का संदर्भ ग्रहण करने का कष्ट करें, जिसमें आप द्वारा बोर्ड पत्रांक 11919/UPPCB/Aligarh(UPPCBRO/HWM/Hathras/2020 दिनांक 12.06.2020 द्वारा जारी प्राधिकार में Details of Authorisation में Used or Spent Oil, Waste/Residues Containing Oil, Empty barrels/containers/liners contaminated with hazardous chemicals/wastes and Contaminated cotton rags or other cleaning materials किये जाने का अनुरोध किया गया है। आपके प्रत्यावेदन का परीक्षण किया गया। परीक्षणोपरान्त बोर्ड द्वारा जारी प्राधिकार पत्र दिनांक 12.06.2020 में Details of Authorisation में Used or Spent Oil, Waste/Residues Containing Oil, Empty barrels/containers/liners contaminated with hazardous chemicals/wastes and Contaminated cotton rags or other cleaning materials किया जाता है। उक्त संशोधन के पश्चात् प्राधिकार पत्र दिनांक 12.06.2020 में अंकित Details of Authorisation को निम्नानुसार पढ़ा जायेगा :-

Details of Authorisation

S. No.	Category of Hazardous waste as per Schedule I, II and III of these rules	Authorised mode of disposal or Recycle or utilization or co-processing, etc.	Quantity
1.	Used/Spent Oil - Category 5.1	TSDF/Recycler	5.0 KL/Annum
2.	Waste or Residues Containing Oil - Category 5.2	TSDF/Recycler	2.0 KL/Annum
3.	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes - Category 33.1	TSDF/Recycler	300 No.s/Annum
4.	Contaminated cotton rags or other cleaning materials- Category 33.2	TSDF/Recycler	1200 Kgs/Annum

शेष शर्तें यथावत् लागू रहेंगी।

संलग्नक: उपरोक्तानुसार।

भवदीय,

(आर0के0 सिंह)

मुख्य पर्यावरण अधिकारी, वृत्त-4

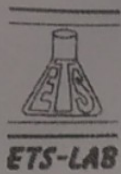
प्रतिलिपि :- क्षेत्रीय अधिकारी, उ0प्र0 प्रदूषण नियंत्रण बोर्ड, अलीगढ़ को सूचनार्थ प्रेषित

मुख्य पर्यावरण अधिकारी, वृत्त-4

टी.सी. - 12 वी, विभूति खण्ड,  
गोमती नगर, लखनऊ-226010  
दूरभाष : 0522- 2720831, 2720828, 2720891  
फैक्स-0522-2720764  
ई-मेल-info@uppcb.com  
वेबसाइट-www.uppcb.com

T.C. - 12 V, Vibhuti Khand,  
Gomti Nagar, Lucknow-226010  
Phone: 0522- 2720831, 2720691, 2720828  
Fax: 0522-2720764  
e-mail: info@uppcb.com  
Web Site: www.uppcb.com





# ENVIRO-TECH SERVICES

An Analytical Laboratory

An Environment, Food, Fuel, Soil & Biological Analytical Laboratory

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

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

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

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



NABL Accredited LAB  
Cert. No. TC-8771

## TEST REPORT

TEST REPORT NO.: ETS/420/03/2021 URL: NOTC8771021000002162P DATE OF REPORT: 22.03.2021

### WORK ZONE MONITORING AND ANALYSIS REPORT

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

Date of Monitoring : 15.03.2021

Analysis Start Date : 19.03.2021

Analysis End Date : 22.03.2021

Duration Of Monitoring : 15.03.2021 To 15.03.2021 8 HOURS, TWA

Time Of Monitoring : 11:15 AM To 07:15 PM

Sample ID No : 420/03

Sampling Done By : ETS STAFF

Sampling Location : CEMENT MILL AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 29.0 °C

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Fugitive Emission*	µg/m <sup>3</sup>	1715.0	2000 As per CPCB	IS: 5182 (Part-4)

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

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

Page 1 of 1

FOR ENVIRO-TECH SERVICES

For Enviro-Tech Services

CHECKED BY

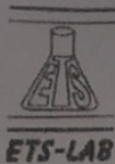
Md Humrai  
Quality Manager  
AUTHORIZED SIGNATORY

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

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. No complaint will be entertained if received after 7 days of issue of test report.





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



NABL Accredited LAB.  
Cert. No. TC-8771

## TEST REPORT

TEST REPORT NO. ETS/418/03/2021 URL:NOTC8771021000002160P DATE OF REPORT: 22.03.2021

### WORK ZONE MONITORING AND ANALYSIS REPORT

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

Date of Monitoring : 15.03.2021

Analysis Start Date : 19.03.2021

Analysis End Date : 22.03.2021

Duration Of Monitoring : 15.03.2021 To 15.03.2021 8 HOURS, TWA

Time Of Monitoring : 11:05 AM To 07:05 PM

Sample ID No : 418/03

Sampling Done By : ETS STAFF

Sampling Location : FLY ASH SILO AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 29.0 °C

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Fugitive Emission*	µg/m <sup>3</sup>	1880.0	2000 As per CPCB	IS: 5162 (Part-4)

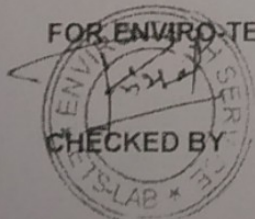
Remark:- Star (\*) marked not cover in NABL scope.

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

Page 1 of 1

For Enviro-Tech Services

FOR ENVIRO-TECH SERVICES



Md Humraj  
Quality Manager  
AUTHORIZED SIGNATORY

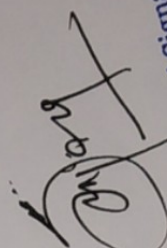
Format No ETS/LAB/TR-04, Issue No. 05, Date 01.04.2019, Amd No. 04 Date 01.04.2019

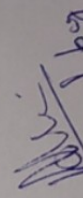
#### Note:-

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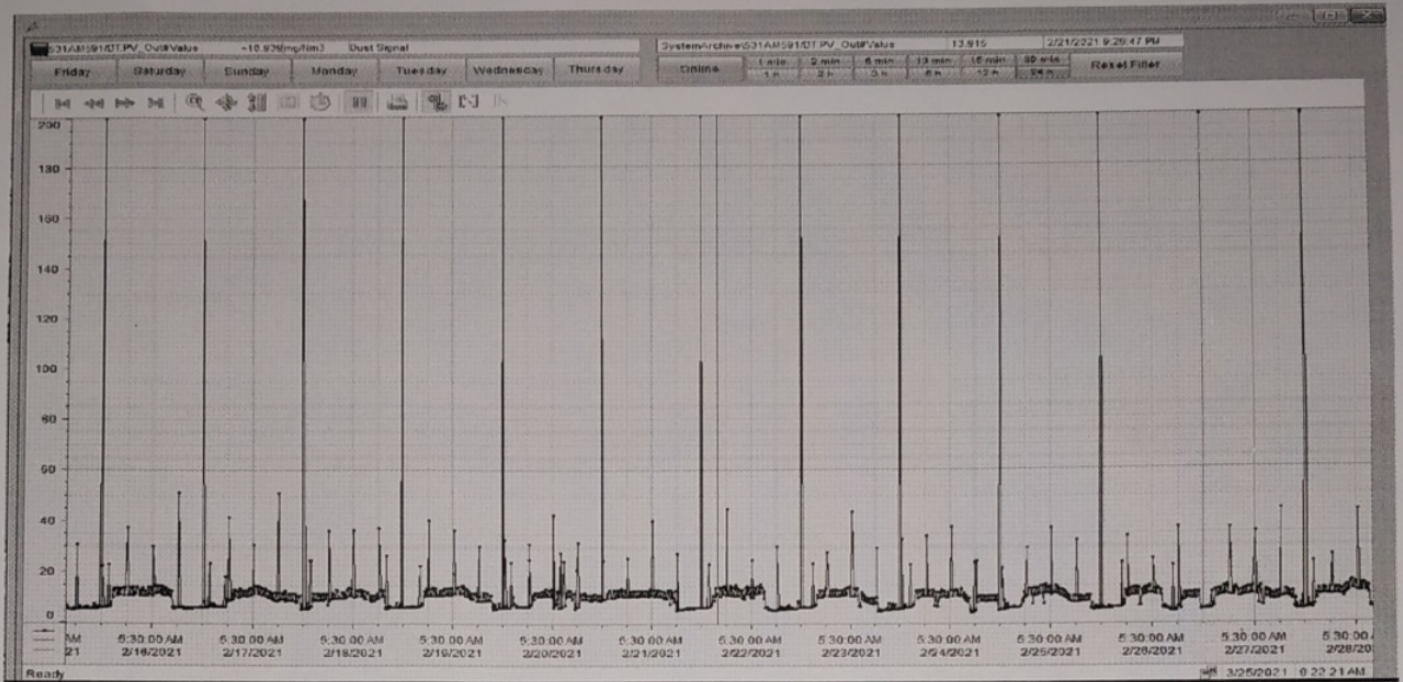
J.K. Cement WORKS, ALIGARH (UP)						
AMBIENT AIR QUALITY AVERAGE SPM RESULTS						
( ALL VALUES IN MICROGRAMS / CUBIC METER )						
Six Monthly Report (Oct 20-Mar 21)						
S.No.	LOCATION	Month	PM10	PM2.5	SO2	NOx
1	PLANT BOUNDARY TOWARDS EAST DIRECTION	Oct-20	53.54	31.71	9.85	21.22
2		Nov-20	55.38	35.84	14.69	22.20
3		Dec-20	97.50	54.60	13.54	23.34
4		Jan-21	52.49	33.69	12.06	24.13
5		Feb-21	55.47	36.31	19.45	26.72
6		Mar-21	57.69	38.88	15.04	27.36
Average			62.01	38.50	14.11	24.16
1	PLANT BOUNDARY TOWARDS WEST DIRECTION (PROJECT OFFICE)	Oct-20	53.16	43.98	9.63	45.69
2		Nov-20	56.56	34.46	13.08	21.17
3		Dec-20	94.30	48.90	14.03	21.20
4		Jan-21	58.01	39.18	11.60	31.45
5		Feb-21	63.48	43.74	17.20	24.13
6		Mar-21	66.98	42.80	14.78	26.16
Average			65.41	42.18	13.39	28.30
1	PLANT BOUNDARY TOWARDS NORTH DIRECTION	Oct-20	54.24	37.87	11.49	23.76
2		Nov-20	56.84	33.92	12.72	21.54
3		Dec-20	91.20	50.60	14.29	23.31
4		Jan-21	56.38	35.39	12.98	26.18
5		Feb-21	61.07	38.30	20.08	27.55
6		Mar-21	60.34	41.52	18.59	30.76
Average			63.35	39.60	15.02	25.52
	PLANT BOUNDARY TOWARDS SOUTH DIRECTION (NEAR CCR BUILDING)	Oct-20	56.14	38.62	11.82	23.21
		Nov-20	57.41	36.65	14.62	21.35
		Dec-20	88.50	46.80	12.95	21.62
1		Jan-21	54.23	36.53	12.12	25.65
2		Feb-21	58.49	38.22	16.33	23.20
3		Mar-21	62.97	41.87	17.38	31.72
Average			62.96	39.78	14.20	24.46

  
 Authorized Signatory  
 J.K. Cement Works Aligarh (UP)  
 Village Satha, Aligarh (UP)  
 PIN - 202127

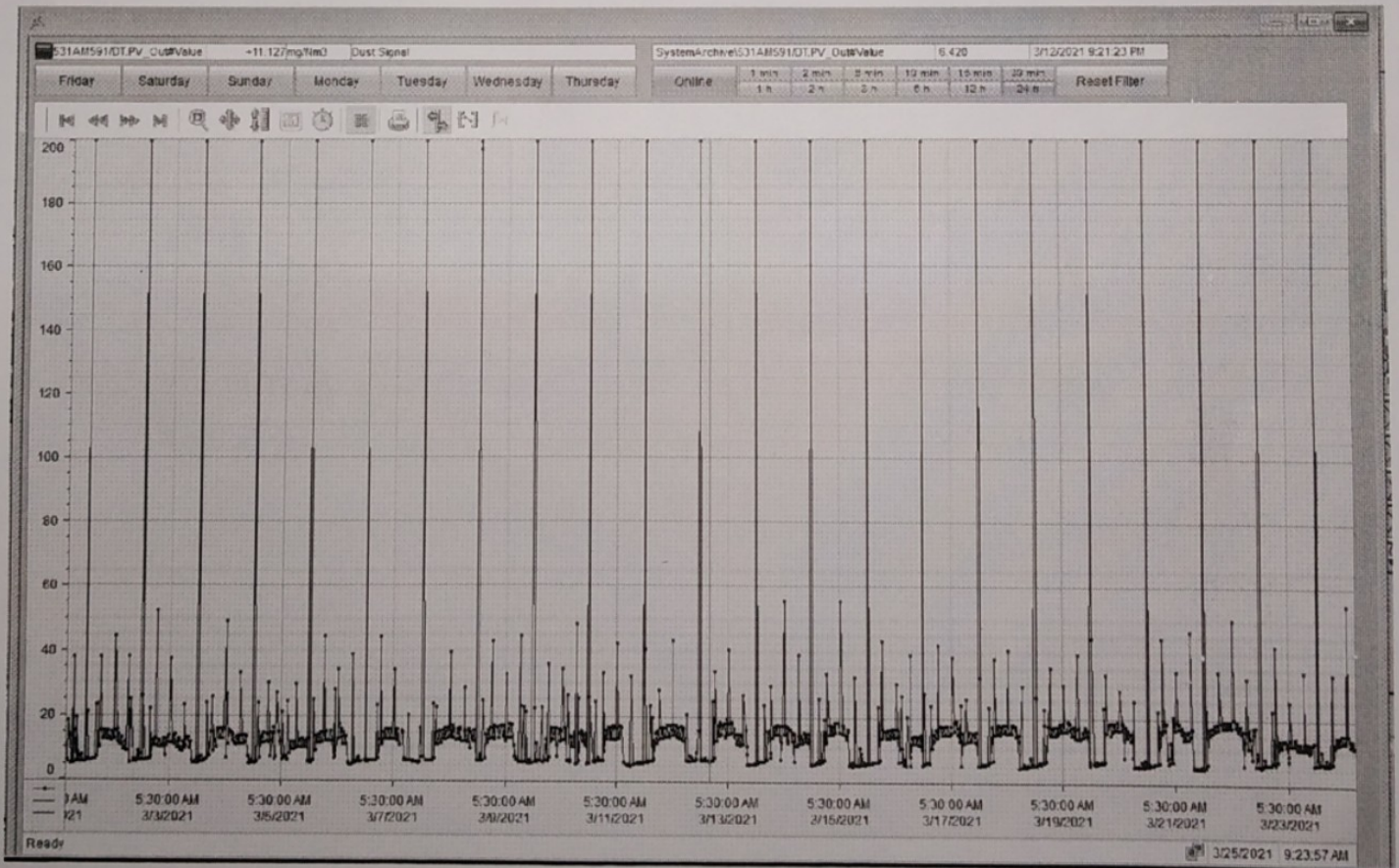
  
 Checked by



## February-2021 Stack monitoring trend



## March-2021 Stack Monitoring trend





**J.K.CEMENT WORKS, ALIGARH,  
Village: Satha, Tehsil: Koil, District: Aligarh (U.P.)**

**Summary Report of PM Stack Emission Monitoring (mg/Nm<sup>3</sup>) of Oct. 20 to Mar. 21**

Sr.No.	Location							YTD		
		Oct-21	Nov-21	Dec-21	Jan-21	Feb-21	Mar-21	Min	Max	Average
1	CEMENT MILL	11.8	9.1	10.40	11.8	12.7	11.3	9.1	12.7	11.2

*Handwritten Signature*

Authorized Signatory  
J.K. Cement Works Aligarh  
Village Satha, Aligarh (UP)  
PIN - 202127

*Handwritten Signature*

checked by

*Handwritten Signature*

Monitored by

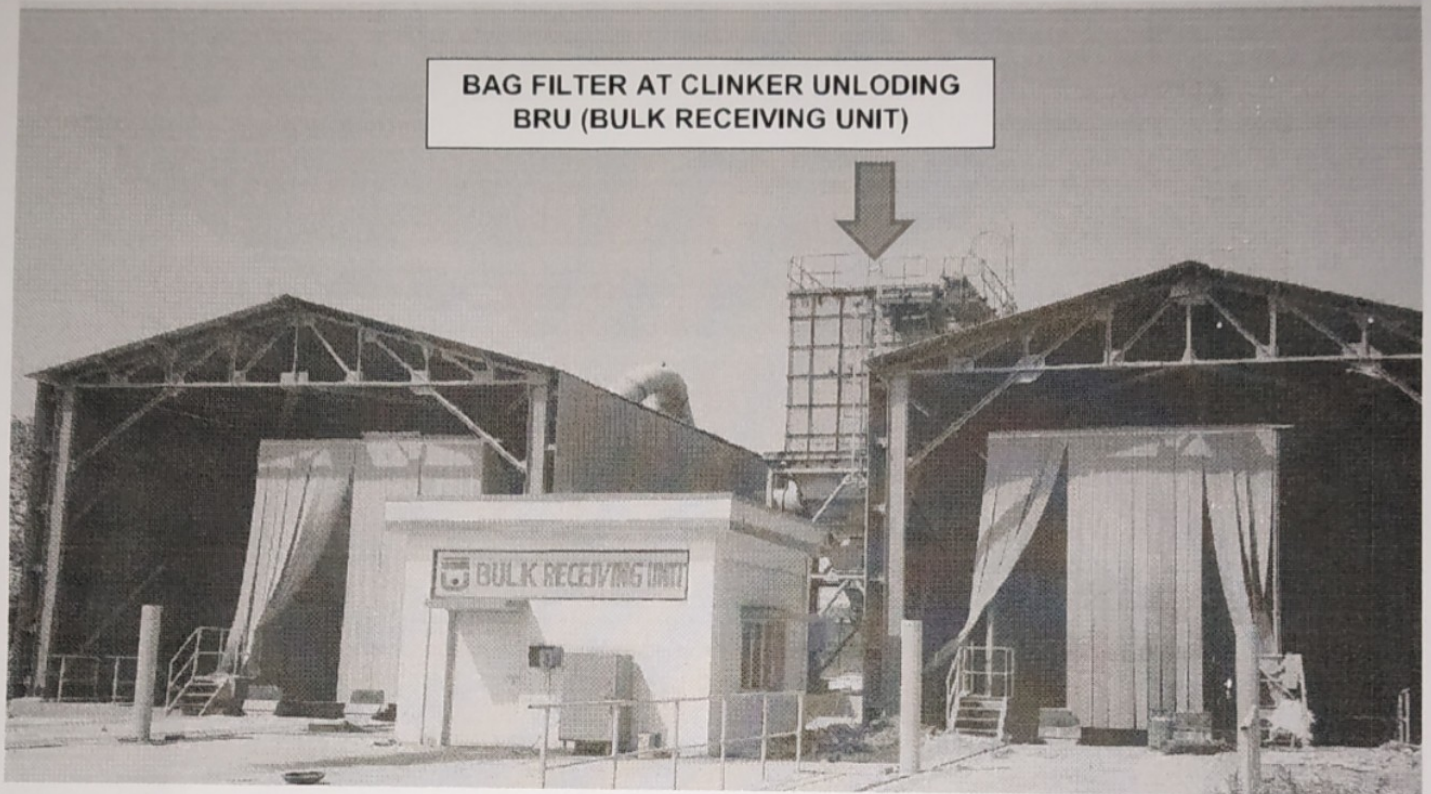


M/s JK Cement Works (Clinker Grinding Unit)  
Village: Satha, Tehsil: Koil, District: Aligarh (U.P)

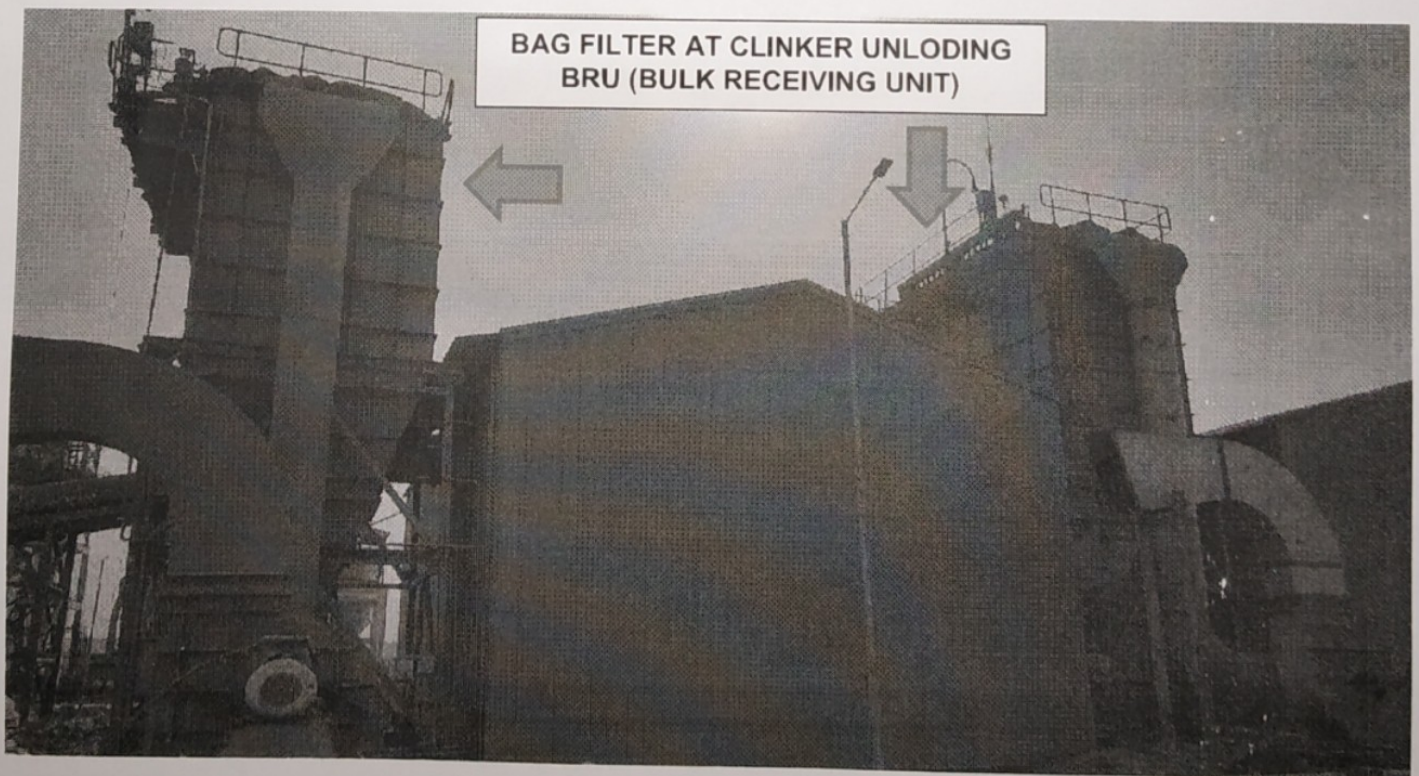
BRU (Clinker truck unloading System)

Annexure-9

Front Side view-



Back Side view-







# ENVIRO-TECH SERVICES

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

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



NABL Accredited LAB  
Cert. No. TC-8771

## TEST REPORT

TEST REPORT NO ETS/437/03/2021

URL NOTC8771621600002179F

DATE OF REPORT 27.03.2021

### WATER SAMPLE ANALYSIS REPORT

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

Date of Sampling : 15.03.2021  
Analysis Start Date : 19.03.2021  
Analysis End Date : 22.03.2021  
Sample ID No : 437/03  
Sampling Done By : ETS STAFF  
Sampling Description : GROUND WATER  
Sampling Location : BOREWELL NO-01  
Sampling Method : ETS/STP/WATER-02  
Sample Quantity : 2.0 + 0.5 Ltr  
Packing Condition : SEALED  
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Desirable	Permissible	
1	Colour	Hazen	< 5.0	5	15	APHA 2120-B
2	Odour	---	Agreeable	Agreeable	Agreeable	APHA 2150-B
3	Taste	---	Agreeable	Agreeable	Agreeable	APHA 2160-C
4	pH	---	7.42	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	<5.0	1	5	APHA 2130-B
6	Total Dissolved Solids.(TDS)	mg/L	628.6	500	2000	APHA 2540-C
7	Chlorine (Residual)	mg/L	<0.02	0.2	1	APHA 4500.(Cl)-B
8	Fluoride.(F)	mg/L	0.65	1	1.5	APHA 4500.(F)-D
9	Chloride (Cl)	mg/L	41.0	250	1000	APHA 4500.(Cl)-B
10	Iron.(Fe)	mg/L	0.15	0.3	No Relaxation	APHA-3120B
11	Sulphate.(SO <sub>4</sub> )	mg/L	54.3	200	400	APHA 4500.(SO <sub>4</sub> )-E
12	Total Alkalinity.(CaCO <sub>3</sub> )	mg/L	115.0	200	600	APHA 2320-B
13	Total Hardness.(CaCO <sub>3</sub> )	mg/L	234.0	200	600	APHA 2340-C
14	Magnesium.(Mg)	mg/L	24.9	30	100	APHA 3500.(Mg)-B
15	Nitrate.(NO <sub>3</sub> )	mg/L	2.15	45	No Relaxation	APHA 4500.(NO <sub>3</sub> )-B
16	Conductivity	µs/cm	911.0	Not Specified	Not Specified	APHA 2510-B
17	Calcium.(Ca)	mg/L	52.0	75	200	APHA 3500.(Ca)-B
18	Oil & Grease. (O & G)	mg/L	N.D	Not Specified	Not Specified	APHA 5520-D
19	Total Coliform *	MPN/100mL	Absent	Shall Not Be Detectable		IS 1622
20	Escherichia coli *	MPN/100mL	Absent	Shall Not Be Detectable		IS 1622

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

Page 1 of 1

For Enviro-Tech Services



For Humrai  
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-09, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Note:-

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**M/s JK Cement Works (Clinker Grinding Unit)**  
 Village: Satha, Tehsil: Koil, District: Aligarh (U.P)

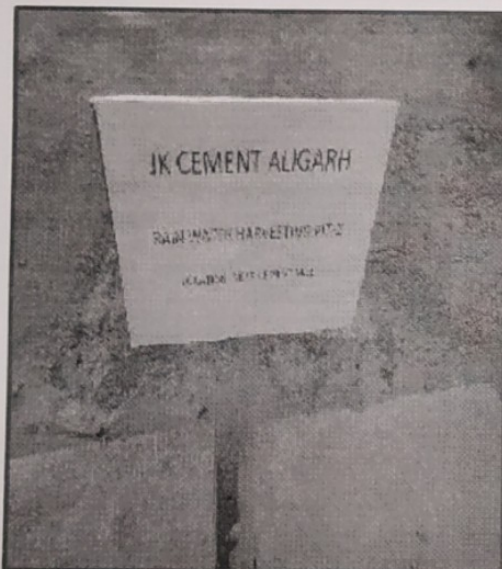
**Annexure-12**

**Rain Water Harvesting Pit**

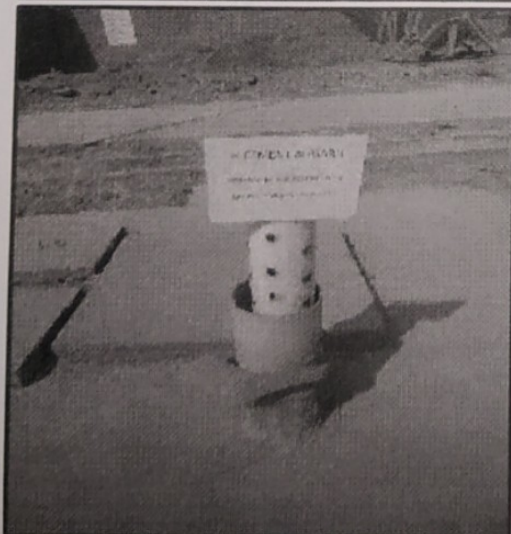
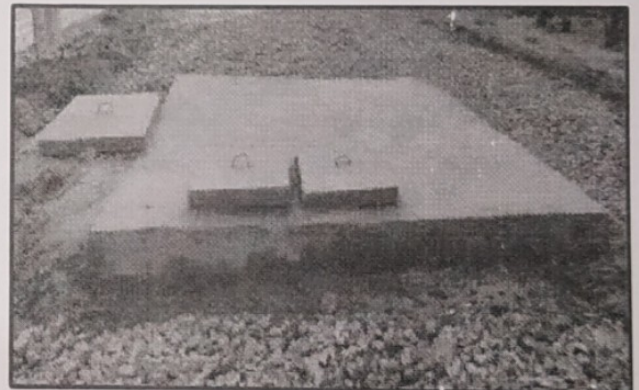
The plant management has shown keen interest to implement various measures to reduce water consumption. In continuation of this plant management has made three rainwater harvesting pits which has capacity of 31,831 m<sup>3</sup> per annum.



Rain Water  
Harvesting  
Pit No-1



Rain Water  
Harvesting  
Pit No-2



Rain Water  
Harvesting  
Pit No-3

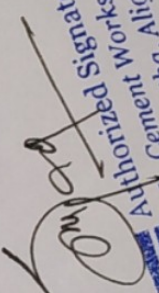


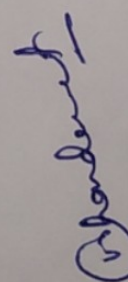


**J.K.CEMENT WORKS, ALIGARH ,**  
**Village: Satha, Tehsil: Koil, District: Aligarh (U.P.)**

**NOISE LEVEL MONITORING RESULT**

Sr.No.	Month	Day / Night	PLANT BOUNDARY TOWARDS EAST DIRECTION	PLANT BOUNDARY TOWARDS WEST DIRECTION (PROJECT OFFICE)	PLANT BOUNDARY TOWARDS NORTH DIRECTION	PLANT BOUNDARY TOWARDS SOUTH DIRECTION (NEAR CCR BUILDING)	Remarks
1	Oct-20	Day	63	66	65	64	
2		Night	61	59	58	57	
3	Nov-20	Day	66	64	63	66	
4		Night	59	58	57	58	
5	Dec-20	Day	71.6	70.6	72.8	69.1	
6		Night	65.2	61.9	63.2	56.7	
7	Jan-21	Day	65	68	66	67	
8		Night	63	61	62	61	
9	Feb-21	Day	67	66	67	68	
10		Night	62	60	59	61	
11	Mar-21	Day	64	66	68	67	
12		Night	63	62	64	58	
AVERAGE		DAY	66.1	66.8	67.0	66.9	
		NIGHT	62.2	60.3	60.5	58.6	

  
 Authorized Signatory  
 J.K. Cement Works Aligarh (UP)  
 Village Satha, Aligarh (UP)  
 PIN - 202127

  
 Monitored By

  
 Checked By